

E.P.K. DEC 5 1938

1.

COLOMBIAN SPECIMENS OF 1922

NAMED TO GENUS OR TO SPECIES BY E. P. KILLIP

NOVEMBER, 1938

No.		No.	
5005	Tournefortia scabrida H.B.K.		
5005	Browallia	5504	Crotalaria sagittalis L.
✓ 5057	Sobralia	5528	Polygala
5079	Vismia	5531	Borreria <i>tenella</i> (H.B.K.) C+S.
5147	Conomorpha (<i>fide Kew</i>)	5537	Sobralia
5179	Solanum	5538	Epidendrum
✓ 5215	Elleanthus	5610	Solanum A
✓ 5216	Epidendrum	✓ 5619	Epidendrum
✓ 5218	Cassipourea	5650	Euphorbia AHY
5233	Hiraea <i>platyptera</i> Pl. + Jr. <i>Exited by</i>	5663	Rivina humilis L.
5236	Lonchocarpus	5676	Aphelandra
5241	Polygala	5722	Bocconia frutescens L.
5256	Sciadophyllum	5744	Gilibertia
✓ 5263	Diolaena	5745	Elleanthus
5279	Monolaena	5749	Elleanthus AYO
5374	Solanum A	5781	Bomarea diffracta Baker
5384	Vernonia <i>patens</i> HBK.	5787	Bomarea patini Baker
5422	Solanum	5851	Commelina diffusa Burm. f.
5430	Ipomoea <i>dealbata</i> (Mart. + Hk.) Hemsley.	5856	(<i>Varonia</i>) Cordia AHY <i>lanceolata</i> (Desv.) H.B.K.
5461	Commelina diffusa Burm. f.	5881	Begonia
5469	Datura	5882	Cyclanthera
5485	Chelonanthus acutangulus (R. & P.) Gilg	5883	Begonia
5489	Habenaria	5885	Solanum
5491	Baccharis	5900	Phoradendron
		5913	Elleanthus AO

<u>No.</u>		<u>No.</u>	
5939	Orchyllium	6503	Solanum A
5969	Jacquemontia AY <i>Apocynoides</i> (S.C.) <i>Urban.</i>	6507	Lepidium
5991	Furcraea	6511✓	Carex <i>jamesonii</i> Boott
6044	Solanum A	6519	<i>Psammisia griseboriana</i> Hoer.
6052	Utricularia	6526✓	Dendrophthora <i>Clavata</i> (Benth.)
6058	Ipomoea AY	6533	Bomarea <i>hirsuta concolor</i> (Cuf.) Killip.
6078	Solanum AY	6540	Drymaria <i>gracilis</i> C.+S.
6109	Cardiospermum H	6543	Juncus
6136	Dioscorea <i>coriacea</i> H.+B.	6567✓	Brachyotum
6202	Solanum AHY	6570✓	Carex
6208	Browallia A	6577	Tournefortia <i>fuliginosa</i> H.B.K.
6215	Ipomoea AY <i>hederacea</i> (L.) <i>Jacq.</i>	6588	Solanum
6224	Ipomoea AY	6598	Momina
6228	Datura A	6600	Senecio
6249	Solanum AY	6610	Bomarea <i>patini</i> Baker
6272	Jussiaea AY	6611	Solanum
6297	Hypericum <i>uliginosum</i> HBK.	6641✓	Dioscorea <i>polygonoides</i> <i>martinicensis</i> (Spreng.)
6307	Sobralia	6642	Gnaphalium
6311	Hypericum <i>uliginosum</i> HBK.	6659	Geranium AY
6312	Epidendrum	6665	Heliotropium <i>cf. submolle</i> <i>Klotzsch</i>
6337	Helicarpus <i>popayanensis</i> H.B.K.	6667	Alchemilla <i>aphanoides</i> L.f.
6342	Befaria AY <i>phillyriaefolia</i> <i>Benth.</i>	6679✓	Stellaria <i>cuspidata</i> Willd.
6354	Commelina AH	6706✓	Phoradendron
6377	Bomarea Baker	6754	Hypericum <i>laricifolium</i> Juss.
6399	Solanum AY	6765	Hieracium
6420	Dahlia	6766	Elleanthus
6446✓	Phoradendron	6770	Gunnera <i>magellanica</i> Lau.
6453	Cardamine AH	6816	Cestrum A
6467	Epidendrum <i>fimbriatum</i> H.B.K.	6838	Tournefortia <i>brevilobata</i> Krause

<u>No.</u>		<u>No.</u>	
✓ 6870	Carex purdiei Boott	✓ 7110	Solanum
6878	Solanum AY	7127	Epidendrum
6891	Elleanthus	✓ 7138	Stellaria
6896	Solanum A	7144	Monnina
6903	Habenaria	7153	Solanum
6913	Sisyrinchium	7155	Oxalis AHY
6917	Alchemilla <i>Purdiei</i> Terry	7175	Senecio
✓ 6920	Hypericum <i>laricifolium</i> ^{guss.} 7182		Galinsoga
6921	Hypericum <i>strictum</i> HBK. 7199		Rynchospora
6939	Hieracium 7205		Calpidisca
6954	Fuchsia - <i>Cestrum mirabile</i> Morton (type) 7206		Utricularia
6998	Elleanthus 7237		Cordia (I do not have this cited. EPK)
7022	Bomarea <i>linifolia</i> (H.B.K.) Baker 7245 ✓		Phoradendron
✓ 7042	Lupinus 7269		Monnina
7045	Monnina <i>revoluta</i> H.B.K. 7276		Rynchospora <i>sp.</i>
✓ 7049	Carex <i>pichinchensis</i> H.B.K. 7281 ✓		Smilax
7050	Hieracium 7364		Anthurium
✓ 7053	Carex <i>pichinchensis</i> H.B.K. 7376 ✓		Elleanthus
✓ 7054	Baccharis 7381		Bomarea <i>patini</i> Baker
7062	Lupinus 7381		" " "
7072	Brachyotum 7389		Solanum A
✓ 7076	Lupinus 7390		Monnina
7078	Lupinus 7399		Rynchospora - <i>Carex humboldtiana</i> Steud.
7081	Epidendrum <i>fimbriatum</i> H.B.K. 7400		<i>Pernettya myrsinoides</i> (H.B.K.) Zucc.
7088	Bomarea <i>hirsuta</i> (H.B.K.) Herb. 7403		Hypericum <i>uliginosum</i> H.B.K.
7093	Datura 7407		Solanum A
7095	Tournefortia <i>fuliginosa</i> H.B.K. 7409		" A
7096 ✓	Phoradendron 7416 ✓		Epidendrum <i>fimbriatum</i> H.B.K.

No.		No.	
7418	Gaultheria lotensis Benth.	7994	Begonia
7431	"		
7447	Rubus nubigenus H.B.K.	8016	Bomarea patini Baker
7449	Solanum	8016	-----
7453	Bomarea crassifolia Baker (also B. hirsuta (H.B.K.) Herb.)	8020	Monnina
7454	Laplacea intermedia Benth.	8025	Solanum AHY
7457	Pernettya myrsinoides (H.B.K.)	8078	Tradescantia
7458	" - ^{Zucc.} Gaultheria foliolosa Benth.	8082 ✓	Lantana trifolia L.
7464	Solanum A	8141	Hypericum ^{AY} uliginosum
7470	Monnina	8175	" ^{H.B.K.} thesifolium
7491	Hypericum <i>Brathyp Lam.</i>	8180	Ipomoea
7504 ✓	Deudrophthora	8207	Hypericum A
7536	Dioscorea <i>caucensis</i> <i>R. Knuth.</i>	8208	Diodia
7554	Solanum	8210	Hypericum euphorbioides ^{St.}
7608	Elleanthus AYO	8220	Jussiaea AY ^{Hil.}
7609	"	8223	Utricularia
7610	Cayaponia ouscubitaceae	8294	ferrugineum (HBK) Dcne. & Planch.
7614	Guadua	8316	Dendropanax - Sciadophyllum
7633	Carludovica	8338	Dcne. & Pl. (H.B.K.)
7636	Dioscorea	8367	Solanum A
7656	Buddleia mollis H.B.K.	8351	Tournefortia syringaefolia
7796	Solanum	8369	Solanum A ^(Vahl)
7801	Epidendrum	8406	Tournefortia syringaefolia Vahl
7833	Solanum AY	8435	Phoradendron AHY
7834	Rubus guianensis Focke?	8466	"
7837	Begonia	8497	Solanum
7949	Solanum	8501	Cattleya
7953	Elleanthus	8513	Tournefortia syringaefolia Vahl
7963	Bomarea hieronymi Pax	8530	Eugenia
7964	Monnina	8532	Dioclea <i>guianensis</i> <i>Benth.</i>
			Ipomoea <i>dealbata</i> (Mout + Gal.) Hemsley
			Ardisia
			Alpinia
			Ipomoea AY
			Solanum AY

No.		No.	
8537	Ipomoea Y		
8543	Lycoseris <i>mexicana</i> (L.f.) Coss.	8845	Saurauja <i>excelsa</i> Willd
8545	Tournefortia <i>scabrida</i> H.B.K.	8847	v. <i>xanthotricha</i>
8557	Manettia <i>Holtonii</i> Wernh.	8855	Bocconia ^{Buss} <i>frutescens</i> L.
8560	" <i>calycosa</i> Griseb.	8859	Iochroma
8565	Cocculus	8967	Viquiera
8574	Solanum	8967	Tradescantia
8574	Cestrum AY	8875	Hypericum AH
8586	Heliconia	8898	Elleanthus
8587	Solanum AY	8906	Monnina
8595	Monnina	8907	Solanum AY
8599	Stellaria	8911	Tradescantia
8615	Solanum	8930	Begonia
8618	Begonia	8952	Melothria AHY
8635	Thunbergia <i>alata</i> Bojer	8969	Solanum AY
8643	Jussiaea AY	8976	Clibadium
8651	Tournefortia <i>cornifolia</i> H.B.K.	8983	Anthurium
8655	Ipomoea AY <i>purpurea</i> (L.) Lam.	9015	Marcgravia AHY
8677	Dahlia	9021	Anthurium
8690	Tournefortia <i>scabrida</i> H.B.K.	9023	Solanum A
8693	Habenaria	9029	Buddleia A
8695	Dicliptera	9086	Anguria AY
8697	Dianthera	9095	Dioscorea
8738	Erythrina (f. l. dupl. of the fl. will next later, acc.)	9098	Dioscorea
8741	Monnina	9100	Solanum AY
8754	Rubus <i>adenotrichus</i> Schlecht.?	9110	Hypericum <i>Jussiaei</i> Pl. & Lind.
8756	Dioscorea <i>martensis</i> R. Kunth.	9114	Myrica <i>pubescens</i> Willd.
8757	Epidendrum <i>fimbriatum</i> H.B.K.	9124	Lupinus
8758	Carex <i>cladostachya</i> Wahl.	9134	Rubus
8810	Oreopanax AH	9137	Bomarea <i>floribunda</i> (H.B.K.)
8839	Cuphea	9150	Lupinus Herb.

No.		No.	
9151	Geranium AY	9450	Stellaria
✓ 9174	Bomarea hazeni Killip	9476	Vernonia
9185	Hieracium	9492	Bomarea hazeni Killip
9192	Spigelia	9528 ✓	Lantana AH
9203	Solanum AY	9529 ✓	Sessea AHY <i>Aluminata</i>
9210	Baccharis	9549	<i>Francey</i> Bomarea oligantha Baker
9214	Solanum AY	9550	Cestrum A
9231	Rubus sellowii C. & S.?	→ 9555	Tournefortia scabrida
		9585	Tecomia
9239	Solanum AY	9614	Croton AH
9242	Stellaria	9634	Heliconia
9318	Solanum AY	9635 ✓	Bomarea diffracta Baker
9319	Siparuna A	9657	Sobralia
9325	Bomarea diffracta Baker	9644	Senecio
9327	Carex jamesonii Boott	9678	Solanum AY
9329	Solanum AY	9690	Cucurbita - Cucurbita
✓ 9369	Bomarea patini Baker	9716	Bomarea polyneura Killip
9371	Tournefortia fuliginosa H.B.K.	9731	Dioscorea <i>sericea R. Knuth.</i>
9372	Senecio	9734	Sobralia
9377	Bomarea granatensis M. Roemer	✓ 9744	Solanum
9382	Monnina	9745	Solanum A
9386	Solanum A	9765 ✓	Carex pichinchensis H.B.K.
9401 ✓	Pilea flexuosa Wedd.	9774	Solanum A
9406	Epilobium AY	9788	Dendrophthora
9415	Dioscorea	9789	"
9420	Lupinus	9791	Stigmaphyllon <i>ruizianum</i>
9421	Dioscorea	9792	<i>Nied.</i> Blepharodon
9422	Elleanthus linifolius Presl	9817	Escallonia
9423	Elleanthus AYO	9820	Senecio
→ 9432	Tournefortia fuliginosa H.B.K.		
9436	Stellaria	9822	"

<u>No.</u>		<u>No.</u>	
9833	Lupinus	10104	Acalypha
9872	Sisyrinchium	10105	"
9906	Alchemilla <i>holosericea</i> <i>Perry</i>	10106	"
9909	Ribes	10107	"
9957	Carex pichinchensis H.B.K.	10109	"
9960	Luzula A	10110	"
9961	Carex	10114	Bomarea oligantha Baker
9962	Sisyrinchium A	10116 ✓	Lantana trifolia L.
9969	Stellaria	10128	Tropaeolum <i>chrysanthum</i> <i>Pl. + Lind (?)</i>
9974	Cardamine	10143	Datura A
9986	Monnina	10185	Solanum AY
9988	Hypericum <i>laricifolium</i> <i>Juss.</i>	10204	Asclepias curassavica L.
10008	Senecio cf. hypsobates Wedd.	10209	Solanum AY
10014	Hieracium	10215	" A
10015	Baccharis	10216 10218	" A
10018	Hieracium	10219	Ipomoea AY <i>dealbata</i> <i>(Mait + Sal.) Hemsley.</i>
10024	"	10222	" AY
10027	"	10235	Solanum A
10041	"	10235	" A
10050	"	10236	" A
10052	Draba	10237	Cestrum <i>cuspidatissimum</i> Francey
10057	Senecio	10239	Solanum A
10084	Bomarea linifolia (H.B.K.) Baker	10242	" AY
10085	" <i>hazeni</i> Killip	10243	Funastrum AHY
10092	Cerastium A	10244	Tournefortia scabrida H.B.K.
10094	Lepidium A	10248	Solanum A
10095	" A	10253	" A
10100	Cestrum AY <i>tomentosum</i> L.	10259	" A
10102 ✓	Phoradendron	10264	" A
10103	Acalypha	10265	" A
		10285	" A

No.		No.	
10293	Physalis	→ 10644 ✓10646	Tournefortia bicolor Sw. Cestrum AHY
10298	Solanum AY	10647	Browallia A
10305	" AHY	✓10668	Hypericum AH
10338	" A	✓10670	Macrocarpaea AH
10339	" AY	10676	Lantana AH
10340	AY	→ 10688 10704	Tournefortia scabrida H.B.K. Solanum A
10346	Dombeya AH	✓10740	Myrica pubescens Willd.
10355	Carex	10755	Physalis AY
✓10364	Epidendrum fimbriatum H.B.K.	10759	Solanum A
10383	Cardamine A	10764	" A
✓10386	Monnina <i>multibracteata</i> <i>Chod.</i>	✓10768	Ranunculus AH
✓10388	Phyllanthus AH	✓10773	Solanum AH
10409	Solanum A	✓10782	Browallia
10477	Stellaria	10796	Asclepias curassavica L.
10478	Cardamine A	→ 10799 10849	Tournefortia paniculata Cham. Solanum AH
✓10498	Stellaria	10851	" AY
✓10516	Bomarea linifolia (H.B.K.) Baker	→ 10856 10862	Tournefortia syringaefolia Vahl Physalis AH
✓10518	Hypericum AH	10874	Oxalis AHY
10524	Desfontainea A	10883	Solanum AH
10525	Solanum A	10885	Tournefortia scabrida H.B.K.
✓10560	Epidendrum fimbriatum H.B.K.	10890	Ipomoea <i>dealbata</i> (Mout. + <i>Gal.</i>) Hemsl.
10561	Alchemilla A	10909	Buddleia AH
10563	Geranium AY	10912	Solanum AY
✓10564	Hypericum <i>strictum</i> H.B.K.	→ 10914 10918	Tournefortia scabrida H.B.K. Metastelma AH
10570	Berberis AY	10925	Solanum AY
10586	Gnaphalium - Leontopodium	10930	" A
10596	Solanum A	10936	" AH
10609	" A	10937	" AY
10621	" A	10939	Tournefortia polystachya R. & P.

No.		No.	
10945	Solanum A	11807	Besleria A
10945	" A	✓11816	Spigelia AH
10951	Cardamine A	11835	Senecio
10952	Solanum AH	11841	Sisyrinchium iridifolium HBK.
10954	Fragaria A	11867	Dioscorea <i>lanceolata</i> <i>Uline</i>
10955	Solanum A	11929	Hypericum
10971	" AH	12001	Funastrum AH
→ 10979	Tournefortia bicolor Sw.	12012	Ipomoea AH <i>Pes-caprae</i> (L.) Sweet
10984	Solanum AH	12061	" AY <i>Pes-caprae</i> (L.)
10985	" A	12069	Elytraria AH
10989	Capsicum AH	12068	Tecoma AHY <i>stans</i> (L.) H.B.K.
11004	Solanum AY	✓12088	Stellaria
11027	Tournefortia bicolor Sw.	12148	Evolvulus AY <i>glaber</i> Spreng
11072	Acalypha cuspidata Jacq.	12076	Tournefortia volubilis L. (sens. lat.)
→ 11095	Tournefortia volubilis L. (sens. lat.)	11426	Tournefortia volubilis L. (sens. lat.)
✓ 11161	Solanum	11445	Tournefortia angustiflora R. & P.
✓ 11171	Stigmatophyllon <i>eclutoides</i> <i>Dr. & P.</i>		
→ 11245	Tournefortia cornifolia H.B.K.		
11249	Monnina		
✓ 11264	Croton AH		
11426	Tournefortia		
11456	Begonia AHY		
✓ 11464	Solanum		
✓ 11467	Acalypha AHY		
✓ 11480	Solanum AHY		
11604	Bomarea kranzlinii Baker		
11605	Guatteria		
11638	Dioscorea		
11643	Elleanthus		
11654	Liparis AYO		
11689	Begonia		
✓ 11774	Echinocystis AHY		

Recent determinations made at Washington:

- 527⁵. Dryopteris permollis Maxon & Morton
- 7350. Passiflora popayanensis Killip? (barren)
- 9085. Heliconia griggsiana L.B. Smith (type)
- 11298. Lepanthopsis acuminata Ames (type)
- 11683. Dryopteris permollis Maxon & Morton

(US only)

know
E.P. Killip

COLOMBIAN PLANTS COLLECTED BY KILLIP & SMITH
Identified at Berlin

- In Herb
- 5091. *Selaginella longissima* Bak.
 - ✓ 5252. " *aff. Schmidtchenii* Hieron.
 - ✓ 5449. " *radiata* (Aubl.) Bak.
 - ✓ 5673. " *geniculata* (Presl.) Spring
 - ✓ 6687. " *Poeppigiana* (Hook. & Grev.) Spring
 - ✓ 8717. " *costaricensis* Hieron.
 - ✓ 8958. " *leptoblepharis* Bak.
 - ✓ 8959. " " "
 - ✓ 8991. " *Poeppigiana* (Hook. & Grev.) Spring
 - 10137. " " "
 - ✓ 11794. 11497 " *Moritziana* Spring
 - ✓ 11811. " *anceps* Spring
 - 14830. " *pedata* Klotzsch.
 - ✓ 14843. " " "
 - 14872. " *jungermannoides* (Gaud.) Spring
 - 15484. " *Hoffmannii* Hieron.
 - 16024. " *radiata* (Aubl.) Bak.
 - 16567. " *mnicioides* (Lieb.) A. Br.
 - 17012. " *Bangii* Hieron.?
 - 18114. " *Poeppigiana* (Hook. & Grev.) Spring
 - 18280. " *radiata* (Aubl.) Bak.
 - 18348. " " "
 - 18357. " *Poeppigiana* (Hook. & Grev.) Spring
 - 19096. " *mnicioides* (Lieb.) A. Br.
 - 19261. " " "
 - 20402. " *Poeppigiana* (Hook. & Grev.) Spring
 - 20934 ~~20943~~ " *Lindigii* A. Br.
 - ✓ 6743. *Eurya canescens* (H. & B.) Blume
 - ✓ 14306. *Psidium guayana* L.
 - ✓ 14984. *Psidiopsis Moritziana* Berg.
 - ✓ 15402. " " "
 - ✓ 15457. *Psidium Friedrichsthalianum* (Berg.) Ndu.
 - ✓ 15463. *Psidiopsis Moritziana* Berg.
 - ✓ 15472. *Myrcia Gollmeriana* Berg.
 - ✓ 16247. *Psidium Lehmannii* Diels
 - ✓ 16263. *Eugenia aff. Benthamii* Berg.
 - ✓ 16333. *Psidiopsis Moritziana* Berg.
 - ✓ 16706. *Eugenia* sp.
 - ✓ 16840. *Psidiopsis Moritziana* Berg.
 - ✓ 17426. *Eugenia aff. fragrans* Willd.
 - ✓ 18154. *Eugenia aff. andina* Berg.
 - ✓ 19477. *Psidiopsis Moritziana* Berg.
 - ✓ 19633. *Eugenia triquetra* Berg.
 - ✓ 19670. " sp. (sterile)
 - ✓ 19688. *Eucalyptus globulus* Labill.
 - ✓ 19821. *Myrcia caracasana* Berg.
 - ✓ 19882. *Eugenia aff. mariquitensis* Berg.
 - ✓ 19917. " *cfr. limbata* (H. B. K.) DC.
 - ✓ 20118. *Myrcia cucullata* Berg.
 - ✓ 20829. *Eugenia cfr. sericiflora* Benth.

By B. L. Robinson

KILLIP & SMITH

- ~~17269~~ *Stevia Penellii* Robinson
~~17398~~ " " "
 17908 " " "
 21568 *Eupatorium persicifolium* HBK.
 21990 " " "
 22163 " " "
 22279 " *leptocephalum* DC., var. *hypomalacum* Robinson
 22303 *Ophryosporus piquerioides* (DC.) Benth.
 22322 *Eupatorium Sternbergianum* DC.
 22343 *Ageratum conyzoides* L.
 22447 *Eupatorium crenulatum* Spreng.
 22461 " *leptocephalum* DC., var. *hypomalacum* Robinson
 22555 *Adenostemma Lavenia* (L.) Ktze.
 22630 *Schistocarpha oppositifolia* (Ktze.) Rydb.
 22655 " " "
 22685 *Eupatorium inulaefolium* HBK., f. *suaveolens* (HBK.) Hieron.
 22859 *Schistocarpha oppositifolia* (Ktze.) Rydb.
 23121 *Eupatorium leptocephalum* DC., var. *hypomalacum* Robinson
 23272 " *persicifolium* HBK.
 23321 " *Volkensii* Hieron.
 23384 " *laevigatum* Lam.
 23392 " " "
 23401 *Mikania cordifolia* (L. f.) Willd.
 23444 *Schistocarpha oppositifolia* (Ktze.) Rydb.
 23491 *Adenostemma Lavenia* (L.) Ktze.
 23570 *Eupatorium macrophyllum* L.
 23573 " *microstemon* Cass.
 23577 *Ageratum conyzoides* L.
 23546 *Eupatorium macrophyllum* L.
 23688 *Ageratum conyzoides* L.
 23701 *Schistocarpha oppositifolia* (Ktze.) Rydb.
 23754 *Eupatorium laevigatum* Lam.
 23826 *Schistocarpha oppositifolia* (Ktze.) Rydb.
 23844 *Mikania psilostachya* DC.
 24273 *Eupatorium nemorosum* Klatt
 24383 " *leptocephalum* DC.
 24677 *Ageratum conyzoides* L.
 24774 *Mikania psilostachya* DC.
 24909 *Schistocarpha oppositifolia* (Ktze.) Rydb.
 24981 *Eupatorium laevigatum* Lam.
 24991 *Mikania cordifolia* (L. f.) Willd.
 25004 " *psilostachya* DC.
 25013 " *Ruiziana* Poepp.
 25037 *Eupatorium ivaeifolium* L., var. *hirsutum* Hassl.
 25187 *Adenostemma Lavenia* (L.) Ktze.
 25191 *Eupatorium macrophyllum* L.
 25215 " *nemosum* Klatt
 25324 " *macrophyllum* L.
 25712 *Ageratum conyzoides* L., var. *inaequipaleaceum* Hieron.
 25793 *Eupatorium nemorosum* Klatt

Killip & Smith (det. by B. L. R.) cont.

- 25852 *Eupatorium nemorosum* Klatt
 26344 *Ageratum conyzoides* L.
 26616 *Eupatorium macrophyllum* L.
 29232 *Mikania micrantha* HBK.
 29851 *Eupatorium microstemon* Cass.
 30471 *Mikania micrantha* HBK.

Pennell -- Chile -- 1925

- 13553 *Stevia cuzcoensis* Hieron.
 13622 " " "

Pennell -- Determined by C. A. Weatherby

- 12534 *Hymenophyllum fuciforme* Sw.
 12706 " *dentatum* Cav.
 -12529 " " "

KILLIP & SMITH

- 21948 *Luzula racemosa* Desv., var. *humilis* (Buchen.) Castil.
 21995 *Juncus imbricatus* Laharpe, var. *Lechleri* (Steud.) Buchen.

Determined by L. B. Smith

- 11733 *Aechmea dactylina* Bak. (Pennell & Killip -- Colombia, '22.)
 11736 *Vriesia paniculata* (L.) Mez " " "
 7560 & 8002 *Thecophyllum Mosquerae* (Wittm.) Mez " "
 15002 *Puya floccosa* (Regel) Morr. (Killip & Smith)
 21861 *Guzmania Weberbaueri* Mez (Hitchcock -- Ecuador)

Killip & Smith -- Determined by R. Bacigalupi

- 14519 *Cuphea repens* L.
 15032 " *callosa* Bac. n. sp. TYPE
 15141 " *gracilis* HBK.
 15168 " *antisiphilitica* HBK.
 15542 " *organifolia* Cham. & Schlecht.
 16012 " " " " "
 16542 " *serpyllifolia* HBK.
 16860 " " "
 17134 " *organifolia* Cham. & Schlecht.
 18004 " *dipetala* (L. f.) Koehne
 18276 " *organifolia* Cham. & Schlecht.
 20147 " *dipetala* (L. f.) Koehne
 20485 " " " " "
 20837 " *micrantha* HBK.
 21127 " *serpyllifolia* HBK.

Pennell et al.

- 5508 *Cuphea strigulosa* HBK., subsp. *opaca* Koehne
 6364 " " " " "
 11582 " *carthagenensis* (Jacq.) Macbr. (*C. balsamona* Cham. & Sch.)
 11185 " *racemosa* (L. f.) Spreng.

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KILLIP & SMITH COLOMBIAN COLLECTION, 1926-27

Determined by E. P. Killip

✓14026	<i>Cordia</i>	<i>alba</i> (Jacq.) R. & S.
✓14111	"	<i>sebestena</i> L.
✓14178	"	<i>alba</i> (Jacq.) R. & S.
✓14466	"	<i>sebestena</i> L.
✓14707	"	<i>alba</i> (Jacq.) R. & S.
✓14824	"	<i>ferruginea</i> (Lam.) R. & S.
✓14947	"	" " "
✓15000	"	<i>curassavica</i> (Jacq.) R. & S.
✓15005	"	<i>lanata</i> H. B. K.
✓15376	"	<i>ferruginea</i> (Lam.) R. & S.
✓15505	"	<i>floribunda</i> (Desv.) Spreng.
✓16108	"	<i>cylindrostachya</i> (R. & P.) R. & S.
✓16174	"	<i>corymbosa</i> (L.) G. Don
✓16219	"	<i>curassavica</i> (Jacq.) R. & S.
✓16273	"	" " "
✓16336	"	<i>ferruginea</i> (Lam.) R. & S.
✓16475	"	<i>floribunda</i> (Desv.) Spreng.
✓16623	"	<i>cylindrostachya</i> (R. & P.) R. & S.
✓16829	"	<i>floribunda</i> (Desv.) Spreng.
✓18919	"	<i>cylindrostachya</i> (R. & P.) R. & S.
✓19057	"	<i>curassavica</i> (Jacq.) R. & S.
✓19349	"	<i>ferruginea</i> (Lam.) R. & S.
✓19384	"	<i>sericicalyx</i> A. DC.
✓19515	"	<i>cylindrostachya</i> (R. & P.) R. & S.
✓19794	"	" " "
✓20019	"	" " "
✓20031	"	" " "
✓20041	"	" " "
✓20175	"	" " "
✓20192	"	" " "
✓20511	"	<i>ferruginea</i> (Lam.) R. & S.
✓20543	"	<i>cylindrostachya</i> (R. & P.) R. & S.
✓20754	"	<i>ferruginea</i> (Lam.) R. & S.
○ 20849	"	" " "
✓20942	"	<i>globosa</i> (Jacq.) H. B. K.
✓21021	"	" " "
21031	"	<i>sebestena</i> L.
✓21058	"	<i>curassavica</i> (Jacq.) R. & S.
✓21067	"	<i>macrostachya</i> (Jacq.) R. & S.
✓21068	"	<i>alba</i> (Jacq.) R. & S.
✓21104	"	" " "

January 20, 1930.

KILLIP & SMITH COLOMBIAN COLLECTION, 1926-27

Determined at the New York Botanical Garden

- ✓14004 *Batis maritima* L.
- ✓14076 *Ayenia magna* L.
- ✓14093 *Chrysobalanus icaco* L.
- ✓14129 *Chiococca micrantha* Johnst.
- ✓14170 *Tragia volubilis* L.
- ✓14197 *Ayenia magna* L.
- ✓14234 *Talinum triangulare* (Jacq.) Willd.
- ✓14348 *Cedrela odorata* L.
- 14360 *Trichostelum ambiguum* (Schwaegr.) Par.
- 14361 *Octoblepharum albidum* (L.) Hedw.
- ✓14366 *Casearia nitida* Jacq.
- ✓14387 *Zizyphus jujuba* Lam.
- ✓14586 *Talinum triangulare* (Jacq.) Willd.
- ✓14674 *Morisonia americana* L.
- ✓14723 *Talinum triangulare* (Jacq.) Willd.
- ✓14729 *Aegiphila paniculata* Moldenke
- ✓14730 *Polypodium crassifolium* L.
- ✓14836 *Alsophila blechnoides* (Rich.) Hook.
- ✓14838 *Trichomanes pinnatum* Hedw.
- ✓14848 *Miconia trichophora* Gleason (type)
- ✓14849 *Aegiphila sylvatica* Moldenke
- ✓14971 " *stricta* Moldenke
- ✓15020 *Eugenia jambos* L.
- ✓15036 *Polygala glochidiata* H. B. K.
- ✓15064 *Psidium araca* Raddi
- 15104 *Hypericum uliginosum* H. B. K.
- ✓15302 *Sauvagesia erecta* L.
- 15440 *Ipomoea batadas* (L.) Lam.
- ✓15522 *Daucus montana* H. & B.
- ✓15824 *Hypericum carinosum* Keller
- ✓15896 *Miconia alberta* Gleason Type
- ✓16074 *Gunnera pilosa* H. B. K.
- ✓16102 *Jussiaea peruviana* L.
- ✓16355 *Barligeria micrantha* Nees
- ✓16370 *Wiegandia caracasana* H. B. K.
- ✓17041 *Campelia zanonii* (L.) H. B. K.
- ✓17066 " " " "
- 17138 *Hypericum lancifolium* Gleason (type)
- ✓17255 " *stenopetalum* Trucz.
- ✓17272 *Miconia pallida* Gleason
- ✓17320 " " " "
- ✓17496 *Hypericum platyphyllum* Gleason
- ✓17710 *Miconia pallida* Gleason
- ✓18059 *Phytolacca rugosa* A. Br. & Bouché
- ✓18115 *Gunnera pilosa* H. B. K.
- ✓18180 *Miconia pallida* Gleason

- ✓18212 *Bidens triplinervia macrantha* (Wedd.) Sherff (det. Sherff)
- ✓18389 *Miconia pallida* Gleason (type)
- ✓18521 *Sphacele hirsuta* Epl.
- ✓18692 *Ribes columbiana* Berger?
- ✓19052 *Casearia praecox* Griseb.
- ✓19055 *Morisonia americana* L.
- ✓19145 *Marattia kaulfussii* J. Sm.
- 19196 *Campelia zanonii* (L.) H. B. K.
- 19225 *Miconia prasina* (Sw.) DC.
- ✓19227 *Coriaria thymifolia* H. & B.
- ✓19235 *Miconia prasina* (Sw.) DC.
- ✓20028 " *alberti* Gleason
- ✓20566 " " "
- ✓20766 *Talinum paniculatum* (Jacq.) Gaertn.
- ✓20916 *Ipomoea quinquefolia* L.
- ✓21046 *Boutia daphnoides* L.

- ✓15512 *Ipomoea batatas* (L.) Lam.

January 20, 1930.

COLOMBIAN RUBIACEAE COLLECTED BY KILLIP & SMITH, 1926-27.

Identified by Paul C. Standley, Field Museum of Natural History.

- ✓14167 *Hamelia pedicellata* Wernh.
- ✓14263 *Rondeletia Purdiei* Hook. f.
- ✓14394 *Chomelia spinosa* Jacq.
- ✓14397 *Rondeletia Purdiei* Hook. f.
- ✓14628 " " " "
- 14673 *Psychotria pinularis* Sessó & Moc.
- ✓14853 *Sabicea colombiana* Wernh.
- ✓14908 *Manettia coccinea* (Aubl.) Willd.
- ✓14912 *Psychotria lupulina* Benth.
- ✓14917 *Palicourea triphylla* DC.
- ✓14929 *Sabicea villosa* R. & S. var. *adpressa* (Wernh.) Standl.
- 14968 *Warscewiczia coccinea* (Vahl) Kl.
- ✓14985 *Chiococca alba* (L.) Hitchc.
- ✓14989 *Psychotria alba* R. & P.
- ✓15069 *Palicourea semirasa* Standl.
- ✓15070 *Psychotria erythrocephala* (Schum. & Kr.) Standl.
- ✓15132 " " " "
- ✓15151 " *cuspidata* Bredem.
- ✓15155 *Cephaelis tomentosa* (Aubl.) Vahl.
- ✓15165 *Borreria verticillata* (L.) Mey
- ✓15231 *Diodia rigida* (Willd.) C. & S.
- ✓15243 *Borreria capitata* (R. & P.) DC.
- ✓15251 " *latifolia* (Aubl.) Schum.
- ✓15258 *Cephaelis tomentosa* (Aubl.) Vahl.
- ✓15275 *Palicourea semirasa* Standl.
- ✓15286 " *perquadrangularis* Wernh.
- ✓15365 *Psychotria Bolivariana* Standl.
- ✓15395 *Manettia coccocypseloides* Wernh.
- 15396 *Reibunium hypocarpium* (L.) Hemsl.
- 15432 *Chiococca alba* (L.) Hitchc.
- ✓15439 *Gonzalagunia corallifolia* (H. B. K.) Standl.
- ✓15482 *Rondeletia glabrata* Standl.
- ✓15495 *Reibunium hypocarpium* (L.) Hemsl.
- ✓15627 *Arcytophyllum nitidum* (H. B. K.) Schl.
- 15890 *Psychotria Aschersonianoides* Wernh.
- ✓15967 " *sammartensis* Rusby
- ✓15984 " " " "
- ✓15990 *Ladenbergia undata* Kl.
- ✓16003 *Borreria bogotensis* (H. B. K.) Standl.
- ✓16045 *Palicourea* sp.
- ✓16056 *Psychotria rufiramea* Standl.
- ✓16078 *Manettia meridensis* Schum.
- ✓16094 *Galium obovatum* H. B. K.
- ✓16114 *Reibunium hirsutum* (R. & P.) Schum.
- 16119 *Palicourea lutulenta* Standl.
- 16139 " " " "
- ✓16191 *Hamelia patens* Jacq.

- ✓16272 *Tarascowiczia coccinea* (Vahl) Kl.
- ✓16280 *Psychotria alba* R. & P.
- ✓16299 *Randia spinosa* (Jacq.) Karst.
- 16364 *Hamelia patens* Jacq.
- ✓16424 *Cosibuena grandiflora* (R. & P.) Rusby
- ✓16434 *Chiococca alba* (L.) Hitchc.
- ✓16535 *Manettia coccocypseloides* Wernh.
- ✓16583 *Palicourea leuconeura* Standl.
- ✓16589 *Psychotria longirostris* (Rusby) Standl.
- ✓16597 *Hoffmannia triosteoides* Standl.
- 16617 *Psychotria fortuita* Standl.
- ✓16679 " " "
- ✓16739 " " "
- ✓16856 *Borreria capitata* (R. & P.) DC.
- ✓16893 *Psychotria amita* Standl.
- ✓16909 *Palicourea leuconeura* Standl.
- ✓16910 *Arcytophyllum nitidum* (H. B. K.) Schl.
- ✓16930 *Palicourea lutulenta* Standl.
- ✓16956 *Relbunium ciliatum* (R. & P.) Hemsl.
- ✓17004 *Manettia coccocypseloides* Wernh.
- ✓17074 *Rondeletia inconstans* Standl.
- ✓17092 *Hoffmannia triosteoides* Standl.
- ✓17135 *Cinchona pubescens* Vahl
- ✓17382 *Galium piliferum* H. B. K.
- ✓17414 *Relbunium ciliatum* (R. & P.) Hemsl.
- ✓17449 *Hoffmannia triosteoides* Standl.
- ✓17502 *Arcytophyllum caracasense* (H. B. K.) Standl.
- ✓17513 " " "
- ✓17599 " *nitidum* (H. B. K.) Schl.
- ✓17614 *Relbunium hypocarpium* (L.) Hemsl.
- ✓17664 " " "
- ✓17855 *Psychotria Aschersonianoides* Wernh.
- ✓18033 *Relbunium hirsutum* (R. & P.) Schum.
- ✓18051 " *nitidum* (H. B. K.) Schum.
- ✓18079 *Palicourea lutulenta* Standl.
- ✓18088 " *vagans* Wernh.
- ✓18124 *Psychotria amita* Standl.
- ✓18148 *Galium canescens* H. B. K.
- ✓18165 *Palicourea vagans* Wernh.
- ✓18167 " *lutulenta* Standl.
- ✓18224 *Arcytophyllum muticum* (Wedd.) Standl.
- ✓18237 " *nitidum* (H. B. K.) Schl.
- ✓18291 *Psychotria amita* Standl.
- ✓18327 *Palicourea leuconeura* Standl.
- ✓18330 *Cinchona pubescens* Vahl
- ✓18337 *Palicourea leuconeura* Standl.
- ✓18342 *Psychotria amita* Standl.
- ✓18399 *Relbunium hirsutum* (R. & P.) Schum.
- ✓18413 *Arcytophyllum nitidum* (H. B. K.) Schl.
- ✓18447 *Relbunium hirsutum* (R. & P.) Schum.
- ✓18281 *Palicourea leuconeura* Standl.

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- ✓18449 *Arcytophyllum muticum* (Wedd.) Standl.
- ✓18549 *Galium obovatum* H. B. K.
- ✓18556 " " "
- ✓18574 *Arcytophyllum nitidum* (H. B. K.) Schl.
- ✓18774 *Fallicourea lutulenta* Standl.
- ✓18869 " *vaginata* Benth.
- ✓18863 *Borreria chartensis* Standl.
- ✓18889 *Arcytophyllum nitidum* (H. B. K.) Schl.
- ✓18921 *Manettia coccocypseloides* Wernh.
- ✓19004 *Fallicourea vaginata* Benth.
- ✓19005 *Hoffmannia glabra* Standl.
- ✓19007 *Fallicourea vaginata* Benth.
- ✓19015 *Hoffmannia triosteoides* Standl.
- ✓19020 *Psychotria longirostris* (Rusby) Standl.
- ✓19070 *Fallicourea densa* Standl.
- ✓19100 *Rondeletia inconstans* Standl.
- ✓19126 *Relbunium nitidum* (H. B. K.) Schum.
- ✓19139 *Hoffmannia glabra* Standl.
- ✓19141 " *trioesteoides* Standl.
- ✓19143 *Fallicourea ovalis* Standl.
- ✓19147 *Hoffmannia triosteoides* Standl.
- ✓19154 *Psychotria longirostris* (Rusby) Standl.
- ✓19156 *Elaeagia utilis* (Goudot) Wedd.
- ✓19187 *Psychotria longirostris* (Rusby) Standl.
- 19203 " *lateriflora* Standl.
- ✓19282 " *amita* Standl.
- ✓19286 " *rufiramea* Standl.?
- ✓19314 *Hoffmannia triosteoides* Standl.
- 19454 *Psychotria fortuita* Standl.
- ✓19490 *Gonzalagunia dependens* R. & P.
- ✓19509 *Galium piliferum* H. B. K.
- ✓19563 *Relbunium ciliatum* (R. & P.) Hemsl.
- ✓19583 *Arcytophyllum muticum* (Wedd.) Standl.
- ✓19764 *Galium canescens* H. B. K.
- ✓19841 *Fallicourea vaginata* Benth.
- ✓19846 *Psychotria Aschersonianoides* Wernh.
- 19848 *Fallicourea vaginata* Benth.
- ✓19902 " *densa* Standl.
- ✓19953 " " "
- ✓20007 " " "
- 20008 " *Albert-Smithii* Standl.
- ✓20047 " *leuconaura* Standl.
- ✓20084 *Rondeletia inconstans* Standl.
- ✓20087 *Fallicourea leuconaura* Standl.
- ✓20096 " *Albert-Smithii* Standl.
- ✓20201 *Galium obovatum* H. B. K.
- ✓20228 *Psychotria amita* Standl.
- ✓20231 *Fallicourea vaginata* Benth.
- ✓20238 " " "
- 20240 *Psychotria amita* Standl.

where is
label not
written

- ✓ 20273 *Psychotria longirostris* (Rusby) Standl.
- ✓ 20332 *Fallicourea vaginata* Benth.
- ✓ 20398 " *demissa* Standl.
- ✓ 20400 " *vaginata* Benth.
- ✓ 20405 *Hoffmannia glabra* Standl.
- ✓ 20409 *Fallicourea vaginata* Benth.
- ✓ 20425 *Psychotria fortuita* Standl.
- ✓ 20437 *Psychotria longirostris* (Rusby) Standl.
- ✓ 20434 *Hoffmannia triosteoides* Standl.
- 20455 *Faramea?* Material incomplete.
- 20472 *Fallicourea demissa* Standl.
- ✓ 20563 " *vaginata* Benth.
- ✓ 20592 " " "
- ✓ 20598 " *demissa* Standl.
- ✓ 20609 " *vaginata* Benth.
- ✓ 20647 *Psychotria Aschersonianoides* Wernh.
- ✓ 20664 *Arcytophyllus nitidus* (H. B. K.) Schl.
- ✓ 20696 *Psychotria Aschersonianoides* Wernh.
- ✓ 20728 *Fallicourea demissa* Standl.
- ✓ 20762 *Emaorrhiza umbellata* (Spreng.) Schum.
- 20764 *Hamelia patens* Jacq.
- 20828 *Emaorrhiza umbellata* (Spreng.) Schum.
- ✓ 20900 *Warscewiczia coccinea* (Vahl) Kl.
- 20915 *Hamelia patens* Jacq.
- 21141 *Hoffmannia triosteoides* Standl.

January 17, 1930

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KILLIP & SMITH COLOMBIAN COLLECTION, 1926-27

Rubiaceae named by P. C. Standley; Epilobium by Prof. G. Samuelsson;
Phoradendron by Dr. William Trelease

- ✓14013 *Morinda roioc* L.
- ✓14056 *Borreria spinosa* C. & S.
- ✓14198 *Coutarea hexandra* (Jacq.) Schum.
- ✓14245 *Psychotria pinularis* S. & M.
- ✓14251 *Chiococca alba* (L.) Hitchc.
- ✓14262 *Psychotria pinularis* S. & M.
- ✓14315 *Evolvulus latifolius* Ker
- ✓14350 *Phoradendron Degenianum*
- ✓14390 *Spermacoce tenuior* L.
- ✓14522 *Evolvulus latifolius* Ker
- ✓14542 *Phoradendron arjonanum*, n. sp.
- ✓14697 *Randia spinosa* (Jacq.) Karst.
- ✓14764 *Geophila herbacea* (L.) Schum.
- ✓14805 *Oldenlandia herbacea* (L.) DC.
- ✓14857 *Sabicea colombiana* Wernh.
- ✓14887 *Isertia haenkeana* DC.
- 14950 " " "
- 14961 *Psychotria micrantha* H. B. K.
- ✓15054 *Coccocypselum canescens* Willd.
- ✓15072 *Phoradendron averrucosum*, n. sp.
- ✓15312 " *Killipi*, n. sp.
- ✓15433 *Sageretia elegans* (H. B. K.) Brongn.
- ✓15452 *Trichanthera gigantea* H. B. K.
- ✓15782 *Sphacele salviaefolia* Benth.
- ✓16040 *Cephaelis axillaris* Swartz
- ✓16254 *Phoradendron venezuelense*
- ✓16426 *Trichanthera gigantea* H. B. K.
- ✓16516 *Dendrophthora* sp.
- ✓16570 *Coccocypselum canescens* Willd.
- ✓16590 *Cephaelis axillaris* Swartz
- 16642 *Peperomia pendentibacca* Trel.
- ✓17006 *Borreria laevis* (Lam.) Griseb.
- ✓17444 *Coccocypselum canescens* Willd.
- ✓17646 *Epilobium meridense halodes* (Lévb.) Sam.
- ✓18009 *Hyptis polystachya* H. B. K.
- ✓18030 *Nertera depressa* Banks & Sol.
- ✓18850 *Cephaelis axillaris* Swartz
- 18990 *Nertera depressa* Banks & Sol. - *Epilobium* - F.R.S.
- 19167 *Faramea killipii* Standl.
- 19288 *Cephaelis axillaris* Swartz
- ✓19318 " " "
- 19686 *Dendrophthora* sp.
- 19741 " "
- 19790 ?
- 19802 *Phoradendron pamplonanum* n. sp.

- +20061 *Coccocypselum canescens* Willd.
- ✓20214 *Cephaelis axillaris* Swartz
- +20128 *Phoradendron toledoanum* n. sp.
- ✓20236 *Nertera depressa* Banks & Sol.
- ✓ 20391 *Epilobium assurgens* Sam.
- ✓ 20410 *Cephaelis axillaris* Swartz
- 20580 ?
- ✓20651 *Nertera depressa* Banks & Sol.
- ✓20891 *Trichanthera gigantea* H. B. K.
- ✓20994 *Evolvulus latifolius* Ker
- ✓21034 *Phoradendron exiguum*

January 20, 1930.

Material of Pilea was nearly
all returned at USNM, and
will be distributed soon.

E.P.C.

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C.

October 16, 1928.

Dr. B. L. Robinson,
Gray Herbarium of Harvard University,
Cambridge, Massachusetts.

Dear Doctor Robinson:

Inclosed are lists of additional determinations of several
current South American collections.

Sincerely yours,



Ellsworth P. Killip
Associate Curator,
Division of Plants.

Enclosures.

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PARTIAL LIST OF DETERMINATIONS OF KILLIP-SMITH COLOMBIAN PLANTS.

- ✓14006. *Amphilophium paniculatum* (L.) H. B. K.
- ✓14007. *Stachytarpheta orubica* (L.) Vahl.
- ✓14008. *Lonchocarpus punctatus* H. B. K.
- ✓14015. " " "
- ✓14018. *Diphysa carthaginensis* Jacq.
- ✓14022. *Machaerium arboreum* (Jacq.)
- ✓14030. *Diphysa carthaginensis* Jacq.
- ✓14043. *Priva lappulacea* (L.) Pers.
- ✓14059. *Indigofera suffruticosa* Mill.
- ✓14100. *Cracca cathartica* (Sessé & Moc.) Britton & Millsp.
- ✓14108. *Celotropis procera* Dry.
- ✓14109. *Sophora tomentosa* L.
- ✓14143. *Bradburya plumieri* (Turp.) Kuntze
- ✓14146. *Spigelia anthelmia* L.
- ✓14152. *Lonchocarpus punctatus* H. B. K.
- ✓14160. *Crotalaria incana* L.
- ✓14196. *Stachytarpheta orubica* (L.) Vahl.
- ✓14199. *Amphilophium paniculatum* (L.) H. B. K.
- ✓14200. *Lonchocarpus punctatus* H. B. K.
- ✓14220. *Diphysa carthaginensis* Jacq.
- ✓14233. *Indigofera subulata* Vahl.
- ✓14321. *Bradburya plumieri* (Turp.) Kuntze
- ✓14353. *Pilea microphylla* (L.) Liebm.
- ✓14379. *Indigofera suffruticosa* Mill.
- ✓14422. *Nissolia fruticosa* Jacq.
- ✓14469. *Hibiscus abelmoschus* L.
- ✓14470. *Pilea microphylla* (L.) Liebm.
- ✓14488. *Tecoma stans* (L.) H. B. K.
- ✓14494. *Mimosa mangensis* Jacq.
- ✓14509. *Nissolia fruticosa* Jacq.
- ✓14518. *Lippia hemispherica* Cham.
- ✓14533. *Lantana camara* L.
- ✓14536. *Amphilophium paniculatum* (L.) H. B. K.
- ✓14554. *Pleonotoma diversifolium* Bur. & Schum.
- ✓14564. *Crotalaria retusa* L.
- ✓14584. " *incana* L.
- ✓14623. *Nissolia fruticosa* Jacq.
- ✓14634. *Amphilophium paniculatum* (L.) H. B. K.
- ✓14690. *Pilea herniarioides* (Sw.) Lindl.
- ✓14702. *Hyptis mutabilis* (Rich.) Briq.
- ✓14793. *Stachytarpheta jamaicensis* (L.) Vahl.
- ✓14815. *Lantana camara* L.
- ✓14990. *Duranta repens* L.
- ✓15033. *Anagallis pumila* Sw.
- ✓15044. *Crotalaria nitens* H. B. K.
- ✓15087. *Massypianthes ~~gamaedrys~~ arenosa* (Benth.) Epl.
- ✓15134. *Leiphamos aphylla* (Jacq.) Gilg
- ✓15240. *Schwenkia americana* L.
- ✓15301. *Hyptis conferta excelsa* (M. & G.) Epl.

- ✓15426. *Indigofera suffruticosa* Mill.
- ✓15483. *Viola stipularis* Sw.
- ✓15574. *Valeriana gracilis* Benth.
- ✓15665. " *vetasana* Killip
- ✓15675. " *stenophylla* Killip. Type
- ✓15779. *Viola colombiana* Becker
- ✓15907. " *stipularis* Sw.
- ✓16072. " *scandens* Willd.
- ✓16088. " " "
- ✓16107. *Phenax rugosus* (Poir.) Wedd.
- ✓16200. *Pilea microphylla* (L.) Liebm.
- ✓16210. *Myriocarpa stipitata* Benth.
- ✓16214. *Hyptis mutabilis* (Rich.) Briq.
- ✓16229. *Plumbago scandens* L.
- ✓16258. *Pilea microphylla* (L.) Liebm.
- ✓16278. *Aeschynomene scoparia* H. B. K.
- ✓16286. *Machaerium glabratum* Pittier
- 16305. *Crotalaria nitens* H. B. K.
- ✓16345. *Aeschynomene portoricensis* Urban
- ✓16399. *Lantana alba* Mill.
- ✓16416. *Jasimum grandiflorum* L.
- ✓16442. *Hemistylis boehmerioides* Benth.
- ✓16455. *Aeschynomene scoparia* H. B. K.
- ✓16490. *Asclepias curassavica* L.
- ✓16564. *Lantana trifolia* L. = *Reperomixis* S. H.: Can this be 16574
- ✓16605. *Crotalaria anagyroides* H. B. K.
- ✓16627. *Escallonia floribunda* H. B. K.
- ✓16687. *Phenax rugosus* (Poir.) Wedd.
- ✓16718. *Viola odorata* L.
- ✓16756. *Verbena littoralis* H. B. K.
- ✓16759. *Duranta mutisii* L. f.
- ✓16771. *Escallonia floribunda* H. B. K.
- ✓16820. *Sambucus nigra* L.
- ✓16867. *Anagallis coerulea* Schreb.
- ✓16885. *Lippia hirsuta* L. f.
- ✓16951. *Parietaria debilis* Forst.
- ✓16982. *Lippia hirsuta* L. f.
- ✓16989. *Pilea parietaria* (L.) Bl.
- ✓17017. *Phenax hirtus* (Sw.) Wedd.
- ✓17053. *Lippia hirsuta* L. f.
- ✓17099. *Spigelia humboldtiana* C. & S.
- ✓17117. *Vicia faba* L.
- ✓17141. *Escallonia floribunda* H. B. K.
- ✓17149. *Parietaria debilis* Forst.
- ✓17161. *Vicia faba* L.
- ✓17252. *Vicia andicola* H. B. K.
- ✓17340. *Verbena littoralis* H. B. K.

- 17363. *Medicago hispida* Gaertn.
- 17400. *Vicia andicola* H. B. K.
- ov 17401. " " "
- 17542. *Gentiana sedifolia* H. B. K.
- ✓17601. *Valeriana vetasana* Killip, sp. nov.
- ✓17615. *Vicia andicola* H. B. K.
- ✓17702. *Salvia amethystina* J. Sm.
- ✓17709. *Juncus bogotensis* H. B. K.
- ✓17778. *Cardoquia discolor* H. B. K.
- ✓17872. *Oenothera tetraptera* Cav.
- ✓17899. *Lathyrus magellanicus* Lam.
- o 17964. *Iscoetes lechleri columbiana* Palmer. Type
- ✓17984. *Valeriana smithii* Killip, sp. nov.
- 17990. *Escallonia discolor* Vent.
- ✓18025. *Anagallis coerulea* Schreb.
- ✓18138. *Viola scandens* Willd.
- ✓18192. *Sphacele hirsuta* Epl.
- ✓18255. *Viola veronicaefolia* Tr. & Pl.
- ✓18266. *Valeriana pavonii* Poepp.
- ✓18292. *Klaprothia mentzelioides* H. B. K.
- ✓18316. *Phenax rugosus* (Poir.) Wedd.
- ✓18324. *Valeriana pavonii* Poepp.
- 18344. *Duranta repens* L.
- ✓18471. *Valeriana rigida* (Pers.) R. & F.
- ✓18485. *Viola scandens* Willd.
- ov 18486. " *humilis* H. B. K.
- ✓18502. *Vicia andicola* H. B. K.
- ✓18544. " " "
- ✓18584. *Gentiana sedifolia* H. B. K.
- ✓18661. *Valeriana rigida* (Pers.) R. & F.
- ✓18681. *Sphacele salviaefolia* Benth.
- ✓18727. *Escallonia discolor* Vent.
- ✓18734. *Medicago hispida* Gaertn.
- ✓18757. *Lippia hirsuta* L. f.
- o 18760. *Valeriana pavonii* Poepp.
- ✓18786. *Valeriana pavonii* Poepp.
- ✓18803. *Viola scandens* Willd.
- ✓18961. *Pisum sativum* L.
- ✓19032. *Pilea latifolia* Wedd.
- ✓19067. *Petrasa arborea* H. B. K.
- ✓19068. *Jasimum pubescens* Willd.
- ✓19069. " *grandiflorum* L.
- ✓19228. *Lippia hirsuta* L. f.
- ✓19311. *Escallonia floribunda* H. B. K.
- ✓19357. *Indigofera suffruticosa* Mill.
- ✓19370. *Pilea acuminata* Liebm.
- ✓19401. *Phenax petiolaris* Wedd.
- ✓19407. *Myriocarpa stipitata* Benth.
- ✓19426. *Boehmeria caudata* Sw.

- ✓19482. *Phenax rugosus* (Poir.) Wedd.
- ✓19514. *Trifolium amabile* H. B. K.
- ✓19569. *Valeriana rigida* (Pers.) R. & P.
- ✓19573. *Vicia andicola* H. B. K.
- ✓19614. *Sphacele conferta* Benth.
- ✓19650. *Vicia andicola* H. B. K.
- ✓19666. *Parietaria debilis* Forst.
- ✓19756. *Valeriana pavonii* Poepp.
- ✓19793. *Boehmeria caudata* Sw.
- ✓19837. *Valeriana clematidis* Poepp.
- ✓19855. " *pavonii* Poepp.
- ✓19891. *Viola veronicaefolia* Tr. & Pl.
- ✓19919. " *nelsonii* Rose
- 2. ✓19985. *Gardoquia discolor* H. B. K.
- ✓20150. *Valeriana pavonii* Poepp.
- ✓20183. *Phenax rugosus* (Poir.) Wedd.
- ✓20229. *Valeriana pavonii* Poepp.
- ✓20285. *Lippia hirsuta* L. f.
- ✓20370. *Pilea multiflora* (Poir.) Wedd.
- ✓20395. *Ulex europaeus* L.
- ✓20528. *Asclepias curassavica* L.
- ✓20532. *Plumbago coerulea* H. B. K.
- ✓20541. *Boehmeria caudata* Sw.
- ✓20578. *Escallonia floribunda* H. B. K.
- ✓20724. *Viola nelsonii* Rose
- ✓20767. *Schistocarpa oppositifolia* (Ktze.) Rydb.
- ✓20771. *Crotalaria nitens* H. B. K.
- ✓20773. *Myriocarpa stipitata* Benth.
- ✓20794. *Urera baccifera* (L.) Gaud.
- ✓20800. *Pilea involucrata* (Sims) Urban
- ✓20804. *Pilea hyalina* Fenzl
- ✓20817. *Crotalaria nitens* H. B. K.
- ✓20835. " *sagittalis* L. (form)
- ✓20843. *Stachytarpheta mutabilis* Vahl.
- ✓20847. *Crotalaria sagittalis* L. (form)
- ✓20854. *Myriocarpa stipitata* Benth.
- ✓20859. *Boehmeria ramiflora* Jacq.
- ✓20866. *Crotalaria anagyroides* H. B. K.
- ✓20912. *Aeschynomene falcata* (Poir.) DC.
- ✓20921. " *scoparia* H. B. K.
- ✓20940. *Cracca cinerea* (L.) Morong
- ✓20941. *Crotalaria incana* L.
- 2 03 ✓ ✓ 21035. " *retusa* L.
- ✓21051. *Spigelia anthelmia* L.
- ✓21076. *Avicennia nitida* Jacq.
- ✓21086. *Platymiscium polystachyum* Benth.
- ✓21197. *Verbena littoralis* H. B. K.
- 21230. *Lantana camara* L.

✓19985 *Polypodium* at G.H.
(as in list from Dr. Mayr)

ARACEAE

(Det. K. Krause, Berlin)

Killip-Smith, Colombia.

- ✓15050. *Anthurium buganum* Engl.
 ✓15965. " *cabrerense* Engl.
 ✓17067. " *cupreo-intens* Engl.
 ✓20237. " *deflexum* Engl.
 ✓19939. " " "
 ✓18301. " " "
 ✓20325. " " "
 ✓19325. " *denudatum* Engl.
 ✓20269. " *funiferum* Kl. & Karst.
 ✓21175. " *hygraphilum* Engl.
 ✓20567. " (*cf. A. incurvum* Engl.)
 ✓18759. " *lehmannii* Engl.
 ✓15267. " *lindenianum* Kth. & Bouché
 ✓16402. " " "
 ✓16036. " *longegeniculatum* Engl.
 ✓20219. " *magnificum* Linden
 ✓18969. " *multinervium* Engl.
 ✓17114. " *nitidum* Benth.
 ✓16984. " " "
 ✓18845. " " "
 ✓19180. " " "
 ✓19268. " " " 2 sk.
 ✓17114. " " "
 ✓16573. " " "
 ✓17842. " *oxybelium* Schott
 ✓15263 15863. " *rotundilobum* Engl.
 ✓19112. *Xanthosoma jacquinii* Schott
 ✓14660. *Syngonium vellozianum latilobum* Engl.
 ✓14661. " " " "
 ✓20322. *Philodendron montanum* Engl.
 ✓15288. " " "
 ✓20199. " " "
 ✓18966. " (*cf. P. multispaticum* Engl.)
 ✓16393. " *tripartitum* (Jacq.) Schott
 ✓20222. " *wallisii* Regel
 ✓14356. *Monstera acuminata* C. Koch
 ✓14832. " *gracilis* Engl.
 ✓14417. " " "

4

Killip-Smith, Colombia

Baccharis (Determined, S. F. Blake)

U. S. National Museum, July 1933.

-
- ✓15120. *Baccharis cassinaefolia* DC.
✓19084. " "
✓15461. " *cinnamomifolia* H.B.K.
✓15524. " *floribunda* H.B.K.
✓16599. " "
✓16696. " "
✓18002. " "
✓18062. " "
✓20494. " "
✓14436. " *trinervis* (Lam.) Pers.
✓15423. " "
✓20131. " " *rhexioides* (H.B.K.) Baker
✓20509. " " "
✓17411. " *microphylla* H.B.K.
✓17660. " "
✓18208. " "
✓18713. " "

Killip-Smith, Colombia-2

Bomarea (det. W. P. Killip)

- 16935, 17374, 17701, 17887, 18492, 18603, 19733. *B. frondea* Mast.
15612, 17810, 17858, 18058, 18177, 18669, 18932. *B. crassifolia* Baker
21178. *B. hispida* Baker
15793, 17819, 17850, 19843, 19870, 19928, 20025, 20606. *B. purpurea*
(R. & P.) Herb.
18130, 18029, 17187, 15578, 17720, 18778, 19828, 18377, 18793, 17279,
19603, 20470, 19992, 17881 (type). *B. trichophylla* Killip
18151. *B. multiflora* (L. f.) Mirb.
20340, 20716. *B. moritziana* Klotzsch
15587, 15784 (type). *B. vegasana* Killip
20738. *B. hispida* Baker

COMPOSITAE
(Det. S. F. Blake)

U. S. National Museum, August 1932.

Killip-Smith, Colombia.

18439? -

- ✓17661. *Calea longipes* Blake
- 18489. " " "
- ✓16626. " *septuplinervia* Hieron.
- ✓18304. " " "
- ✓15416. " *prunifolia* H. B. K.
- ✓16189. " " "
- ✓14987. " *solidaginea* H. B. K.
- ✓16233. " " "
- o ✓20830. " " "
- ✓18443. *Diplostephium baccharideum* Blake
- ✓15834. " *rosmarinifolium* (Benth.) Wedd.
- ✓17746. " " " "
- ✓18080. " " " "
- ✓19352. *Heliopsis buphthalmoides* (Jacq.) Dunal
- ✓19636. " " " "
- ✓17885. *Montanaa ovalifolia* (DC.) Sch. Bip.
- ✓18001. " " " "
- ✓19446. " *quadrangularis* Sch. Bip.
- ✓17026
18926? " *quadrangularis* Sch. Bip.
- ✓18954. " " " "
- ✓19253. " " " "

KILLIP-SMITH COLOMBIA 1926-27

Geraniaceae and Oxalidaceae, determined by

R. Knuth

- ✓15592. *Geranium piurense* R. Knuth
✓15630. " *cucullatum elongatum* Wedd.
✓15736, 15791, 17675,)
○18225, 18407, 18733, 19585) ditto
✓15661, 17406, 17421, 17597, 17946. *G. santanderiense* R. Knuth
✓17484. *G. cucullatum* H.B.K.
✓17975. " " "
17626. " *mogotorerense* R. Knuth (Type)
✓17154, 18388, 19672. *Erodium moschatum praecox* Lge.
✓15520, 16075, 16540. *Oxalis medicaginea* H.B.K.
✓15598, 17764, 17814, 17837. *Oxalis pubescens* H.B.K.
✓16853. *Oxalis corniculata* L.

(For other specimens of *Oxalis* see Pflanzenreich).

Labiatae, Determined by Dr. C. Epling (All Salvia)

July 26, 1930

Killip & Smith Colombia

- ✓19416. S. riparia Kunth
- ✓19792. S. obvallata Epl.
- ✓19389. " Type
- ✓16874. "
- ✓17695. S. killipiana Epl.
- * 16032. "
- ✓15604. " Type
- ✓17381. S. carnea Kunth
- ✓17378. "
- ✓17702. S. amethystina J. E. Sm.
- ✓19390. S. calecalyaina Briq.
- ✓20540. " ?
- ✓16092. S. debilis Epl. Type
- * 16032. "
- ✓18965. "
- ✓16441. S. bogotensis Benth.
- ✓16772. S. erythrostoma Epl. Type
- ✓19692. S. palaeifolia Kunth
- ✓16619. "
- ✓18014. "
- ✓16971. S. intonsa Epl. Type
- ✓18144. S. colombiana Epl. Type
- ✓17898. "
- ✓17318. "
- ✓17319. "
- ✓19519. S. orthostachys Epl.
- ✓19683. "
- ✓20746. " Type
- ✓19735. S. melaleuca Epl. Type
- ✓16973. S. funckii Briq.

* I am asking Epling about this confusion

Killip-Smith, Colombia.

Mimosaceae & Caesalpiniaceae
(N. L. Britton)

- ✓14001. *Acuan virgatum* (L.) Medic? (sterile)
- ✓14002. *Meltuma juliflora* (Sw.) Raf.
- ✓14027. *Isandrona emarginata* (L.) B. & R.
- ✓14028. *Adipera bicapsularis* (L.) B. & R.
- ✓14031. *Libidibia coriaria* (Jacq.) Schl.
- ✓14038. *Emelista tora* (L.) B. & R.
- ✓14040. *Petianisia biflora* (L.) Pittier
- ✓14068. *Anneslia marginata* (Griseb.) B. & R.
- ✓14069. *Acuan virgatum* (L.) Medic
- ✓14071. *Isandrona emarginata* (L.) B. & R.
- ✓14078. *Acuan virgatum* (L.) Medic
- ✓14084. " " " "
- ✓14085. *Schnella columbiensis* (Vog.) Benth.
- ✓14089. *Emelista tora* (L.) B. & R.
- ✓14090. *Popanax flexuosa* (H. & B.) B. & R.
- ✓14112. *Guilandina crista* (L.) Small
- ✓14125. *Acuan virgatum* (L.) Medic
- ✓14131. *Albizzia columbiana* Britton
- ✓14135. *Libidibia coriaria* (Jacq.) Schl.
- ✓14140. *Piptadenia flava* (Spreng.) Bth.
- ✓14141. *Mimosa flavescens* Splitz.
- ✓14195. *Emelista tora* (L.) B. & R.
- ✓14202. *Acuan depressum* (H. & B.) Ktze.
- ✓14206. *Pithecolobium forfex* (Kunth) Benth.
- ✓14211. *Piptadenia flava* (Spreng.) Bth.
- ✓14218. *Schnella columbiensis* (Vog.) Benth.
- ✓14227. *Anneslia marginata* (Griseb.) B. & R.
- ✓14229. *Ditremexa occidentalis* (L.) B. & R.
- ✓14231. *Anneslia marginata* (Griseb.) B. & R.
- ✓14235. *Schnella columbiensis* (Vog.) Benth.
- ✓14237. *Mimosa pudica* L.
- ✓14239. *Leucaena bolivarensis* Britton (type)
- ✓14267. *Anneslia marginata* (Griseb.) B. & R.
- ✓14293. *Inga smithii* Britton (type)
- ✓14300. *Bauhinia pauletia* Pers.
- ✓14312. *Pithecolobium pittieri* Britton & Killip
- ✓14319. *Chamaefistula bacillaris* (L. f.) G. Don
- ✓14334. *Acuan virgatum* (L.) Medic
- ✓14338. *Pithecolobium forfex* (Kunth) Benth.
- ✓14343. *Anneslia marginata* (Griseb.) B. & R.
- ✓14345. *Samanea saman* (Jacq.) Merrill
- ✓14368. *Anneslia marginata* (Griseb.) B. & R.
- ✓14372. *Acuan virgatum* (L.) Medic
- ✓14381. *Piptadenia flava* (Spreng.) Bth.
- ✓14388. *Anneslia marginata* (Griseb.) B. & R.
- ✓14419. *Delonix regia* (Bojer) Raf.

- ✓14427. *Mimosa flavescens* Splitz
- ✓14428. *Bauhinia unguiculata* L.
- ✓14431. *Piptadenia gracilipes* Britton
- ✓14438. *Libidibia coriaria* (Jacq.) Schl.
- ✓14441. *Schnella columbiensis* (Vog.) Benth.
- ✓14442. *Piptadenia flava* (Spreng) Bth.
- ✓14453. " (?) *uliginosa* Britton (type)
- ✓14456. *Libidibia coriaria* (Jacq.) Schl.
- ✓14462. *Chamaecrista stenocarpa* (Vogel) Standl.
- ✓14481. *Isandrona emarginata* (L.) B. & R.
- ✓14482. *Senegalia* (aff. *S. affinis*) Britton
- ✓14489. *Poinciana pulcherrima* L.
- ✓14494. *Chloroleucon mangense* (Jacq.) B. & R.
- ✓14500. *Neptunia prostrata* (Lam.) Baill.
- ✓14501. *Piptadenia gracilipes* Britton (type)
- ✓14510. *Leptoglottis hamata* (H. & B.) Standl.
- ✓14517. *Chamaefistula bacillaris* (L. f.) G. Don
- ✓14528. *Piptadenia flava* (Spreng.) Benth.
- ✓14543. *Bauhinia unguiculata* L.
- ✓14560. *Acuan virgatum* (L.) Medic
- ✓14585. *Pithecolobium lanceolatum* (H. & B.) Benth.
- ✓14593. *Neptunia prostrata* (Lam.) Baill.
- ✓14595. *Chamaesema reticulata* (Willd.) Pittier
- ✓14601. *Mimosa pigra* L.
- ✓14621. *Peirania biflora* (L.) Pittier
- ✓14630. *Anneslia marginata* (Griseb.) B. & R.
- ✓14632. *Schnella columbiensis* (Vog.) Benth.
- ✓14651. *Anneslia marginata* (Griseb.) B. & R.
- ✓14686. *Chamaefistula bacillaris* (L. f.) G. Don
- ✓14692. *Schnella columbiensis* (Vog.) Benth.
- ✓14700. *Pithecolobium lanceolatum* (H. & B.) Benth.
- ✓14706. *Mimosa pigra* L.
- ✓14759. *Inga marginata* Willd.
- ✓14782. *Chamaefistula oxyphylla* (Kunth) G. Don
- ✓14788. *Mimosa pudica* L.
- ✓14798. *Mimosa santanderensis* B. & R. (type)
- ✓14804. " *pigra* L.
- ✓14851. *Jupunba jupunba* (Willd.) B. & R.
- ✓14918. *Mimosa colombiana* Britton & Killip
- ✓14919. *Chamaefistula killipii* Britton (type)
- ✓14922. *Poinciana pulcherrima* L.
- ✓14935. *Inga popayanensis* Pittier?
- ✓14938. *Mimosa pigra* L.
- ✓14978. *Bauhinia incurva* Britton (type)
- ✓14982. *Anneslia purdiei* (Benth.) B. & R.
- ✓15089. *Chamaecrista pulchra* (H. B. K.) B. & R.
- ✓15113. *Mimosa somnians* H. & B.
- ✓15127. *Chamaecrista pulchra* (H. B. K.) B. & R.
- ✓15180. *Adipera arborea* Britton (type)
- ✓15403. *Chamaefistula speciosa* (Schrad.) G. Don
- ✓15415. *Chamaefistula speciosa* (Schrad.) G. Don
- ✓15419. *Grimaldia colombiana* Britton (type)
- ✓15425. *Mimosa somnians* H. B. K.

- ✓15459. *Pithecolobium dulce* (Roxb.) Benth.
- ✓15464. *Mimosa floribunda* Willd.
- ✓15477. *Inga santanderensis* Britton (type)
- ✓16173. *Pseudocassia spectabilis* (DC.) B. & R.
- ✓16177. *Anneslia purdiei* (Benth.) B. & R.
- ✓16205. " *santanderensis* B. & R. (type)
- ✓16215. *Pithecolobium dulce* (Roxb.) Benth.
- ✓16255. " " " "
- ✓16264. *Grimaldia viscosa* (H. B. K.) B. & R.
- ✓16268. *Stryphnodendron* (?) *colombianum* B. & K. (type)
- ✓16276. *Chamaefistula subcoriacea* Britton (type)
- ✓16296. *Acaciella holtonii* Britton
- ✓16376. *Mimosa floribunda* Willd.
- ✓16392. *Acaciella santanderensis* Britton
- ✓16400. *Peirania mutisiana* (Kunth) Pittier
- ✓16414. *Mimosa killipii* B. & R. (type)
- ✓16433. *Anneslia caracasana* (Jacq.) B. & R.
- ✓16439. *Ditremexa occidentalis* (L.) B. & R.
- ✓16456. *Inga marginata* Willd.
- ✓16457. *Acaciella santanderensis* Britton (type)
- ✓16458. *Tara spinosa* (Mol.) B. & R.
- ✓16459. *Chamaefistula speciosa* (Schrad.) G. Don
- ✓16463. *Anneslia toroana* B. & R.
- ✓16480. *Mimosa floribunda* Willd.
- ✓16483. *Inga obconica* Britton (type)
- ✓16697. *Adipera santanderensis* Britton (type)
- ✓16822. *Tara spinosa* (Mol.) B. & R.
- ✓16828. *Chamaefistula speciosa* (Schrad.) G. Don
- ✓16832. *Anneslia tetragona* (Willd.) Donn. Sm.
- ✓16852. *Mimosa floribunda* Willd.
- ✓16888. " " " "
- ✓19066. *Bauhinia picta* (H. B. K.) DC.
- ✓19088. *Inga chartana* Britton (type)
- ✓19345. *Chamaecrista pulchra* (H. B. K.) B. & R.
- ✓19392. *Anneslia caracasana* (Jacq.) B. & R.
- ✓19404. *Peirania mutisiana* (Kunth) Pittier
- ✓19415. *Adipera indecora* (H. B. K.) B. & R.
- ✓18447. *Chamaefistula puberula* (H. B. K.) G. Don
- ✓19655. *Chamaesenna velutina* Britton (type)
- ✓19777. *Inga pamplonae* Britton (type)
- ✓19791. *Acaciella santanderensis* Britton (type)
- ✓19807. *Peirania mutisiana* (Kunth) Pittier
- ✓20018. *Inga punctata* Willd.
- ✓20038. *Adipera indecora* (H. B. K.) B. & R.
- ✓20039. *Mimosa floribunda* Willd.
- ✓20135. *Inga tapatensis* Britton
- ✓20141. *Anneslia tetragona* (Willd.) Donn. Sm.
- ✓20146. *Chamaecrista arborescens* Britton (type)
- ✓20165. *Inga culagana* Britton (type)
- ✓20500. *Anneslia tetragona* (Willd.) Donn. Sm.
- ✓20505. *Inga punctata* Willd.
- ✓20522. *Anneslia tetragona* (Willd.) Donn. Sm.

- ✓20524. *Inga pseudospuria* Britton (type)
 ✓20535. *Acuan laetum* B. & R.
 ✓20538. *Inga punctata* Willd.
 ✓20750. *Peirania santanderensis* Britton (type)
 ✓20752. *Tara spinosa* (Mol.) B. & R.
 ✓20753. *Acuan virgatum* (L.) Medic
 ✓20770. *Inga chinacotana* Britton (type)
 ✓20777. *Chamaecrista simplex* Standl.
 ✓20850. *Chamaefistula undulata* (Benth.) Pittier
 ✓20851. *Anneslia tetragona* (Willd.) Donn. Sm.
 ✓20861. *Mimosa killipii* B. & R.
 ✓20886. *Bauhinia mollicella* Blake
 ✓20889. *Mimosa esmeraldae* Britton (type)
 ✓20922. *Anneslia smithiana* B. & R. (type)
 ✓20926. *Anneslia esmeraldae* B. & R. (type)
 ✓20950. *Ditremexa occidentalis* (L.) B. & R.
 ✓20974. *Acuan depressum* (H. & B.) Kuntze
 ✓20983. *Leptoglottis leptocarpa* (DC.) Standl.
 ✓20989. *Neltuma juliflora* (Sw.) Raf.
 ✓21010. *Poponax tortuosa* (L.) Raf.
 ✓21014. *Parkinsonia aculeata* L.
 ✓21016. *Cercidium praecox* (R. & P.) Harms
 ✓21039. *Acaciella curassavica* B. & K. (type)
 ✓21041. *Tamarindus indica* L.
 ✓21048. *Poponax tortuosa* (L.) Raf.
 ✓21054. *Libidibia coriaria* (Jacq.) Schl.
 ✓21055. *Acaciella curassavica* B. & K.
 ✓21062. *Haematoxylon brasiletto* Karst.
 ✓21063. *Acaciella curassavica* B. & K.
 ✓21073. *Neltuma juliflora* (Sw.) Raf.
 ✓21090. *Havardia platyloba* (Spreng.) B. & R.
 ✓21093. *Poponax flexuosa* (H. & B.) B. & R.
 ✓21094. *Haematoxylon brasiletto* Karst.
 ✓21096. *Isandrona emarginata* (L.) B. & R.
 ✓21102. *Peirania biflora* (L.) Pittier
 ✓21106. *Haematoxylon brasiletto* Karst.
 ✓21110. *Acuan depressum* (H. & B.) Kuntze
 ✓21112. *Leptoglottis hamata* (H. & B.) Standl.
 ✓21131. *Zygia latifolia* (L.) Fawc. & Rendle
 ✓21219. *Pseudocassia spectabilis* (DC.) B. & R.

KILLIP & SMITH (COLOMBIA)

Monochaetum

(Determined by H. A. Gleason)

- ✓17851. Monochaetum coronatum Gleason
- ✓17454 " venosum Gleason Type.
- ✓16014. " " "
- ✓20334. " " "
- ✓15741. " myrtoideum (Bonfl.) Nand.
- ✓17312. " "
- ✓18052 " "
- ✓18265. " "
- ✓19589. " "
- ✓20653. " "
- ✓16701. " bonplandii expansum Gleason Type
- ✓15934. " ecaudatum Gleason Type
- ✓15467. " brachyurum Nand. /u
- ✓15517. " "
- ✓16522. " "
- ✓16536. " "
- ✓17447. " "
- ✓18755. " "
- ✓19108. " "
- ✓19478. " "
- ✓20182. " "
- ✓15777. " ciliatum Gleason Type.

COLOMBIAN SPECIMENS OF PASSIFLORA COLLECTED BY KILLIP & SMITH-1926.
Identified at U. S. National Herbarium by E. P. Killip.

<i>Passiflora</i> auriculata H. B. K.	✓14811.
biflora Lam.	✓14650, 20868, 21012.
bogotensis Benth.	✓15506, 16111, 16607, 17196, 18000, 18146, ✓19234, 19243.
bracteosa Flanch. & Linden.	✓15926, 16889, 18320.
bucaramangensis Killip	○15364, 16787 (type), 17046, 18842, 19508.
capsularis L.	✓16477, 19037, 19044, 19340.
coriacea Juss.	✓14415, 14970, 16343, 19062, 21156.
cuneata Willd.?	✓14975, 15454, 15951, 16175, 16223, 16344, ○16412, 16452, 16527, 17717, 17923, 18599, ✓19420, 20408 (barren).
cuspidifolia Harms?	✓15320 (barren)
ericaula Harms	17200
foetida L.	✓14705, 21038, 21103.
foetida hirsuta Mast.	21035, 21078, 21088.
guazumefolia Juss.	✓14800.
hispida DC.	○14963, 21000.
hyacinthiflora Pl. & Linden.	○15935, 17753, 18159, 19849.
kalbreyeri Mast.	✓19775, 19801, 20284, 20493, 20557.
leconteana Killip	✓18100. (<i>P. trisecta</i> Pl. & Linden, not <i>Tacsonia trisecta</i> Mast.)
ligularis Juss.	✓15227, 16511, 17197, 19104, 20136.
longipes Juss.	✓15911.
maliformis L.	✓14958, 15453.
manicata (Juss.) Pers.	✓20022, 20547.
menispermifolia H. B. K.	✓14945.
mixta L. f.	✓15576, 17148, 17373, 17235, 17825, 17831, ✓17920, 18210, 18501, 19685, 19712.
mollissima (H. B. K.) Bailey	✓19520, 19681.
oerstedii Mast.	5555, 5682, 6115, 9064, 11662. (Pomell-Killip m.c.)
perlobata Killip	✓20879.
pinnatistipula Cav.	✓19700.
pubera Tr. & Planch.	○19050, 19051, 19061, 19400.
pulchella H. B. K.	○20772.
quadrangularis L.	✓14734, 14823.
rugosa (Mast.) Tr. & Planch.	✓19871.
seemanni Griseb.	✓14969, 19342.
smithii Killip	✓15015 (type).
suberosa L.	✓14164, 14168, 14329, 14479, 15029, 16834, ✓18398, 20807, 21044.
subpeltata Ortega	✓14398.
vitifolia H. B. K.	✓14739.
	○16893, 18358, 19280, 19376, 20227 not determinable; juvenile specimens without flowers or fruit.

v = names changed in book list

Gacey

Killip & Smith, Colombia

Ranunculaceae; det. Ulbrich

(Reported by U.S.N.M. June 1939)

- ✓14983. *Clematis dioica* L.
-✓15599. *Ranunculus bonariensis* Poir. (*bonariensis*)
-✓15663. " *mandonianus* Wedd.
o✓15685. " *peruvianus* Poir.
✓15927. " *cf. bonplandianus* H.B.K.
-✓16099. *Clematis dioica* L.
✓16329. " "
-✓16682. " "
✓17358. *Ranunculus flagelliformis* Sm.
-✓17670. " *cf. tridentatus* H.B.K.
✓18181. " *bonariensis* Poir.
-✓18372. " *cf. bonplandianus* H.B.K.
o✓18609. " *bonplandianus* H.B.K.
19549. " *mandonianus* Wedd.
21221. " *bonariensis* Poir.

Our 19549 is an *Eleocharis*!

Killip & Smith, Colombia

Det. R. Gross

- ✓18093. *Carex bonplandii* Kunth
✓18528. *Carex brehmeri* Boeck.

Rubiaceae

The following are types:

- 14959 *Schizocalyx hirsutus* Standl., sp. nov.
- ✓ 15154 *Palicourea semirasa* Standl.
- ✓ 15246 *Rudgea Killipii* Standl.
- ✓ 15504 *Rondeletia glabrata* Standl.
- ✓ 16058 *Manettia rivularum* Standl.
- ✓ 16631 *Psychotria pedocephala* Standl.
- ✓ 16811 *Manettia suratensis* Standl.
- ✓ 17080 *Psychotria amita* Standl.
- ✓ 17209 *Palicourea lutulenta* Standl.
- ✓ 19034 *Hoffmannia glabra* Standl.
- ✓ 19207 *Borreria chartensis* Standl.
- ✓ 19265 *Hoffmannia triosteoides* Standl.
- ✓ 20393 *Palicourea demissa* Standl.
- ✓ 20562 " *effusa* Standl.
- ✓ 20569 *Faramea Killipii* Standl.
- ✓ 20700 *Palicourea Albert-Smithii* Standl.
- ✓ 20855 *Manettia calycosa* Griseb. var. *latifolia* Standl.

COLOMBIAN SCROPHULARIACEAE

Collected by Killip & Smith

Det. Pennell

* indicates probably
reported as such
already.

- Alonsoa meridionalis (L.f.) Kuntze - 15584*, 16871*, 17234, 17786*, 17786*,
18200*, 18754*, 19488*, 20185*, 21143*.
- Aragoa lycopodioides Benth. - 18188*, 18572*, 19582*, 19621*, 21173*.
- Bartsia santolinaefolia (H.B.K.) 17948.
- Buchnera virgata H.B.J. - 16339 (rather than B. longifolia)
- Capraria biflora L. - 14057*.
- Capraria biflora f. hirta Loes - 14029*, 14451*, 14636*.
- Digitalis purpurea L. - 17246*.
- Escobedia parvifolia Pennell - 17210*.
- Gratiola peruviana L. - 16015, 19892 (G. bogotensis, syn.).
- Lamourouxia serratifolia H.B.K. - 17330, 17991.
- Leucocarpus perfoliatus (H.B.K.) Benth. - 15540*, 17039*, 17106*, 18859*,
20352*.
- Maurandya barclaiana Lindl. - 16821*.
- Minulus glabratus H.B.K. - 16707*, 16788*, 18131*.
- Herpestis lilacina Pennell - 15034 (Monocardia lilacina, syn.).
- Scoparia dulcis L. - 14582*, 14280*.
- Sibtharpia repens (L.) Kuntze - 15560*, 17754*, 20667*.
- Stemodia durantifolia (L.) Sw. - 20933*.
- Vandellia diffusa - 14884*.
- Veronica serpyllifolia humifusa (Dickson) Vahl - 17572, 15672, 17676, 17772.
✓ Killip & Smith 15156. J. nervosa Poir. (not J. lithospermifolia)

Jussiaea

Gray
from
E. Pennell

5

Killip & Smith - Colombia
Solanum, det. C. V. Morton

- 14060. *S. nigrum* L.
- 14080. *S. allophyllum* Standl. (syn. *S. ellipsoideibaccatum* Bitter)
- 14454. *S. lanceifolium* Jacq.
- 14540. *S. hirtum* Vahl
- 14548. *S. lanceifolium* Jacq. (not *asperrimum*)
- 14647. *S. nigrum* L.
- 14701. *S. lanceifolium* Jacq. (not *asperrimum*)
- 14741. *S. hirtum* Vahl
- 14769. *S. scabrum* Vahl (not *asperrimum*)
- 14854. *S. jamaicense* Mill.
- 15071. *S. asperrimum* Moritz
- 15076. *S. hirtum* Vahl
- 15412. *S. subinerme* Jacq.
- 15513. *S. chamaecerasus* Bitter ined.
- 15526. *S. scorpoideum* Rusby
- 15554. *S. nollanum* Britt.
- 15569. *S. gollmeri* Bitter
- 15692. *S. jahnii* Bitter
- 16178. *S. jubatum* Willd.
- 16450. *S. hirtum* Vahl
- 16614. *S. nollanum* Britt.
- 16680. *S. stellatiglandulosum* Bitter
- 16949. *S. nollanum* Britt.
- 16957. *S. nigrum* L.
- 17097. *S. scorpoideum* Rusby
- 17249. *S. callianthum* Morton (not *S. venosum*)
- 18010. *S. scorpoideum* Rusby
- 18050. *S. hispidum* Pers.
- 18896. *S. nigrum* L. var.
- 18913. *S. nollanum* Britt.
- 19089. *S. chamaecerasus* Bitter ined.
- 19092. *S. scabrum* Vahl
- 19208. *S. stellatiglandulosum* Bitter (not *S. scorpoideum*)
- 19468. *S. micranthum* Willd.
- 19505. *S. chamaecerasus* Bitter ined.
- 19682. *S. stellatiglandulosum* Bitter (not *S. scorpoideum*)
- 19798. *S. asperrimum* Moritz
- 19920. *S. gollmeri* Bitter
- 20134. *S. scabrum* Vahl
- 20415. *S. dissimile* Morton n. sp. type
- 20475. *S. asperrimum* Moritz
- 20546. *S. scabrum* Vahl
- 20795. *S. nigrum* L.
- 20820. *S. hirtum* Vahl
- 20911. *S. nigrum* L.
- 20949. *S. hirtum* Vahl

Solanum

Killip & Smith (Colombia)

- ✓ 14383. verbascifolium var. adulterinum (Ham.) Don
- ✓ 15450. umbellatum Mill.
- ✓ 16531. chamaecerasus Bitt.
- ✓ 16541. suaveolens Kth. & Bonchi~~e~~
- ✓ 14667. verbascifolium var. adulterinum (Ham.) Don
- ✓ 16681. macrotomum Bitt.?
- ✓ 16688. jahnii Bitt.
- ✓ 14770. killipii Morton (type)
- ✓ 15762. oblongifolium H. & B.
- ✓ 15850. oblongifolium H. & B.
- ✓ 15952. luculentum Morton
- ✓ 16466. Wendlandi Hook.
- ✓ 16473. umbellatum Mill.
- ✓ 16681. gollmeri Bitt.
- ✓ 16879. jahnii Bitt.
- ✓ 16900. caripense H. & B.
- ✓ 16947. oblongifolium H. & B.
- ✓ 16948. jahnii Bitt.
- ✓ 16970. gollmeri Bitt.
- ✓ 16983. oblongifolium H. & B.
- ✓ 17011. macrotomum Bitt.
- ✓ 17156. oblongifolium H. & B.
- ✓ 17192. jahnii Bitt.
- ✓ 17249. venosum H. & B.
- ✓ 17267. endotrichum Bitt.
- ✓ 17302. oblongifolium H. & B.
- ✓ 17313. endotrichum Bitt.
- ✓ 17327. endotrichum Bitt.
- ✓ 17351. oblongifolium H. & B.
- ✓ 17388. endotrichum Bitt.
- ✓ 17389. oblongifolium H. & B.
- ✓ 17408. jahnii Bitt.
- ✓ 17863. oblongifolium H. & B.
- ✓ 17887. oblongifolium H. & B.
- ✓ 17910. endotrichum Bitt.
- ✓ 17915. jahnii Bitt.
- ✓ 17916. endotrichum Bitt.
- ✓ 17969. bogotense Dunas
- ✓ 17996. macrotomum Bitt.
- ✓ 18021. caripense H. & B. var.
- ✓ 18090. gollmeri Bitt.
- ✓ 18132. gollmeri Bitt.
- ✓ 18318. juglandifolium H. & B.
- ✓ 18490. gollmeri Bitt.
- ✓ 18711. oblongifolium H. & B.
- ✓ 18731. gollmeri Bitt.
- ✓ 18956. gollmeri Bitt.
- ✓ 18994. monticola Morton
- ✓ 19089. maleolens Macbr.
- ✓ 19178. monticola Morton
- ✓ 19249. oblongifolium H. & B.
- ✓ 19260. extensum Bitt.
- ✓ 19524. oblongifolium H. & B.

Killip & Smith (Colombia)

- 19825. *caripense* H. & B.
- ✓ 20011. *macrotomum* Bitt.
- ✓ 20068. *maleolens* Macbr.
- ✓ 20070. *maleolens* Macbr.
- ✓ 20154. *oblongifolium* H. & B.
- ✓ 20156. *maleolens* Macbr.
- ✓ 20235. *moritzianum* Bitt.
- ✓ 20723. *gollmeri* Bitt.
- ✓ 20747. *Seaforthianum* Andr.
- ✓ 20856. *umbellatum* Mill.
- ✓ 20908. *verbascifolium* var. *adulterinum* (Ham.) Don.
- ✓ 20946. *suaveolens* Kth. & Bonch
- n ✓ 20956. *nigrum* var. *americanum* (Mill.) Scholz.

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LIST OF VIBURNUM SPECIES COLLECTED IN SOUTH AMERICA
BY KILLIP & SMITH--1926.

- floccosum K. & S. 16916, 18082 (type), 18869.
- leptophyllum K. & S. 16083, 16628, 16931, 17055 (type), 17083,
19098, 19226, 19310.
- leptophyllum venezuelense K. & S. 15006, 15068, 15116.
- pichinchense toledense K. & S. 19911, 20107, 20184, 20589 (type),
20615.
- suratense K. & S. 15864, 16743 (type), 18766.

DETERMINATIONS OF WEINMANNIA COLLECTED IN SOUTH AMERICA BY
KILLIP & SMITH--1926

Weinmannia	balbisiiana	H. B. K.	19766.
"	caripensis	H. B. K.	15105, 15897, 19809, 15987.
"	crenata	Fresl	16109, 16745, 18041, 18887, 19305, 19461, 19516, 19797, 20050.
"	fagaroides	H. B. K.	15737, 17747, 17930, 18656, 19590.
"	multijuga	K. & S.	20597, type. 16134, 19907, 20637.
"	Stuebelii	Hieron.	18042.
"	tomentosa	L. f.	15853, 18037, 18194, 19707, 20625, 18392.
"	vegasana	K. & S.	15840, type.

G

Killip-Smith, Colombia.

- ✓14005. *Beureria cumanensis* (Loefl.) Schulz)
- ✓14086. *Nissolia fruticosa* Jacq. (Exact match for type at Brit. Mus., which has long inflorescences)
- ✓14112. *Caesalpinia crista* L.
- ✓14300. *Bauhinia pabletia* Pers. (Det. N. L. B.)
- ✓14302. *Desmodium albiflorum* Salzm.
- ✓14396. *Trigonía membranacea* A. C. Smith (type)
- ✓14414. *Morisonia americana* L.
- ✓14429. *Desmodium uncinatum* (Jacq.) DC.?
- ✓14448. *Parosela barbata* (Oerst.) Rydb.
- ✓14635. *Nephromeria infracta* (DC.) Schindl.
- ✓14695. *Lonchocarpus punctatus* H. B. K.
- ✓14760. *Desmodium axillare* (Sw.) DC.
- ✓14763. *Renealmia strobilifera* P. & E.
- ✓14827. *Desmodium molliculum* (H. B. K.) DC.
- ✓14911. " *barbatum* (L.) Benth.
- ✓14979. *Megaskepasma erythrochlamys* Lindau (Erroneously reported as 14779)
- ✓15171. *Sphyraspernum buxifolium* P. & E. (Det. A. C. Smith)
- ✓15242. *Rynchospora caracasana* (Kunth) Boeckl. (Det. Gross)
- ✓15394. *Trigonía sericea* H. B. K.
- ✓15485. *Carex cladostachya* Wahl (Det. Gross)
- ✓15649. *Xyris acutifolia* (Heimerl) Malme
- ✓15868. *Disterigma alaternoides* (H. B. K.) Ndz.
- ✓15873. *Guzmania candelabrum* André
- ✓15958. *Guzmania coriostachya* (Griseb.) Mez
- ✓16000. *Desmodium adscendens* (Sw.) DC.
- ✓16005. *Cyperus niger* R. P. (*C. melanostachyus* H. B. K.; det. Gross)
- ✓16062. *Carex purdiei* Boott (Det. Gross)
- ✓16437. *Polymnia riparia* H. B. K.
- ✓16444. *Desmodium uncinatum* (Jacq.) DC.
- ✓16591. *Desmodium campylocladum* Hemsl.
- ✓16634. *Marcgravia rectiflora* Tr. & Pl.?
- ✓16837. *Parosela coerulea* (L. f.) Macbr.
- ✓16854. *Phaseolus erythroloma* Mart.
- ✓17119. *Carex cladostachya* Wahl (Det. Gross)
- ✓17143. *Psoralea mexicana* (L. f.) Vail
- ✓17290. *Lupinus santanderensis* C. P. Smith (type)
- ✓17409. *Plantago* (aff. *P. linearis* H. B. K.)
- ✓17727. *Vaccinium moritzianum oblongum* Kl.
- ✓17775. *Oreopanax cyclophyllum* Harms (type)
- ✓18007. *Parosela coerulea* (L. f.) Macbr.
- ✓18043. *Polymnia pyramidalis* Triana
- ✓18093. *Carex bonplandii* Kunth (Det. Gross)
- ✓18376. *Oreopanax santanderianum* Harms (type)
- ✓18391. *Aragoa lycopodioides* Benth. (Det. Pennell)
- ✓18503. *Lupinus mutabilis* Sweet
- ✓18572. *Aragoa lycopodioides* Benth. (Det. Pennell)
- ✓19582. *Aragoa lycopodioides* Benth. (Det. Pennell)
- ✓18687. *Oreopanax killipii* Harms (type)

K.-S, Colombia-2

- ✓18689. *Greigia columbiana* L. B. Smith (type)
- ✓18694. *Lupinus humifusus famelicus* C. P. Smith (type)
- ✓18909. *Vaccinium caracasenum* H. B. K.
- ✓18953. *Carex purdiei* Boott (Det. Gross)
- ✓19023. *Psoralea mexicana* (L.f.) Vail
- ✓19049. *Macrocnemum latilimbum* Standl.
- ✓19120. *Psoralea mexicana* (L. f.) Vail
- ✓19489. *Carex cladostachya* Wahl. (Det. Gross)
- ✓19504. *Parosela caerulea* (L. f.) Macbr.
- ✓19621. *Aragoa lycopodioides* Benth. (Det. Pennell)
- ✓19632. *Lobelia tenera* H. B. K.
- ✓19654. *Ligustrum lucidum* Ait.
- ✓19693. *Polymnia pyramidalis* Triana
- ✓19697. *Panopsis suaveolens* (Kl.) Pittier (Det. A.. C. Smith)
- ✓19888. *Psoralea mexicana* (L. f.) Vail
- ✓20078. *Carex cladostachya* Wahl. (Det. Gross)
- ✓20195. *Guzmania mitis* L. B. Smith (type)
- ✓20252. *Spherospermum cordifolium* Benth.
- ✓20484. *Polymnia pyramidalis* Triana
- ✓20688. *Gaulthera ramosissima* Benth.
- ✓20799. *Polymnia riparia* H. B. K.
- ✓20910. *Phaseolus erythroloma* Mart.
- ✓20978. *Ruellia tuberosa* L. (Det. Leonard)
- 21057. *Beureria succulenta* Jacq.
- 21191. *Fuchsia hybrida* Voss.

Colombia:

Killip & Smith:

- ✓14020. *Hippocratea verrucosa* HBK. (type loc.) (comp. type at P.)
 ✓14116. " " "
 ✓14115. *Bursera glabra* (Jacq.) Tr. & Pl. (approx. type loc.)
 (ex illustr.)
 ✓14192. *Celtis aculeata* Sw.
 ✓14207. *Gouania tomentosa* Jacq.
 ✓14326. *Bombax cumanense* HBK. (comp. type at P.)
 ✓14384. (N) *Phthirusa pyrifolia* (HBK.) Eichl.
 ✓14547. *Lecythis elliptica* HBK. (comp. type at P.)
 ✓14590. *Cissus erosa* L.C.Rich.
 ✓14655. *Disciphania appendiculata* Diels
 ✓14657. *Zizyphus strychnifolia* Tr. & Pl.
 ✓14704. *Cissus erosa* L.C.Rich.
 ✓14742. " " "
 ✓14817. *Gouania tomentosa* Jacq.
 ✓14881 *Chelonanthus acutangulus* (R. & P.) Gilg
 ✓14905. *Corynostylis arborea* (L.) Blake
 ✓14977. *Phthirusa theobromae* (Willd.) Eichl.
 ✓14983. *Clematis caripensis* HBK.
 ✓14998. *Chelonanthus angustifolius* (HBK.) Gilg (comp. type at P.)
 ✓15001. *Bejaria subserrata* Fedtsch. & Basil. (type loc.) (comp.
 type coll. at P.)
 ✓15122. *Clusia petiolaris* Pl. & Tr. (comp. type coll. at K.)
 ✓15217. *Rhytidanthera sulcata* v. Tiegh. (comp. type at P.)
 ✓15220. *Persea Mutisii* HBK.
 ✓15380. *Smilax Pöppigii* Kunth
 ✓15456. (N) *Smilax cumanensis* H. & B.
 ✓15476. *Ficus gigantea* HBK. (comp. type at P.)
 ✓15575. *Monnina mollis* Pl. & Lind.
 ✓15668. (N) *Sisyrinchium bogotense* HBK.
 ✓15788. *Vaccinium caracasense* HBK.
 ✓15815. *Gaultheria rigida* HBK.
 ✓15837. *Gaultheria buxifolia* Willd.
 ✓15855. *Gaultheria rigida* HBK.
 ✓15894. *Ilex uniflora* Benth.
 ✓15905. *Symbolanthus latifolius* Gilg
 ✓15913. *Gaultheria rigida* HBK. (comp. type at P.)
 ✓15985. *Disterigma alaternoides* (HBK.) Nied.
 ✓15988. *Gaultheria buxifolia* Willd.
 ✓16039. *Siparuna venezuelensis* Perk.
 ✓16089. *Hydrangea durifolia* Briq. (comp. type at C.)
 ✓16106. *Cissampelos pareira* L. v. *Haenkeana* Presl
 ✓16209. *Bombax barrigon* (Seem.) Decne. (comp. type at K.)
 ✓16260. *Bredemeyera lucida* (Benth.) Benn.
 ✓16326. *Aristolochia maxima* Jacq. (!O.C.Schmidt)
 ✓16329. *Clematis caripensis* HBK.
 ✓16319. *Phthirusa pyrifolia* (HBK.) Eichl.
 ✓16331. *Bombax barrigon* (Seem.) Decne.
 ✓16361. *Trichilia alba* C.DC. var. (det. Harms)
 ✓16383. *Daphnopsis tinifolia* (Sw.) Meissn.
 ✓16552. *Smilax tomentosa* HBK.
 ✓16620. *Panopsis suaveolens* (Kl.) Pittier (comp. type at B.)
 ✓16758. *Boussingaultia baselloides* HBK. (comp. type at P.)
 ✓16765. *Gaultheria buxifolia* Willd.

Killip & Smith (cont.):

- ✓16766. *Vaccinium caracasatum* HBK.
 ✓16767. " "
 ✓16907. " "
 ✓16939. *Cissus rhombifolia* Vahl
 ✓17056. *Clethra repanda* Turcz. (comp. type coll. at K.)
 ✓17085. *Picramnia corallodendron* Tul.
 ✓17096. *Cleome gigantea* L.
 ✓17126. *Gaultheria rigida* HBK.
 ✓17274. *Bejaria resinosa* Mutis
 ✓17350. *Cleome anomala* HBK. (comp. type at P.)
 ✓17352. *Berberis Guillaume* Tr. & Pl.
 ✓17420. *Monnina densa* Pl. & Lind.
 ✓17504. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
 ✓17552. (N) *Sisyrinchium pusillum* HBK.
 ✓17558. *Vaccinium floribundum* HBK.
 ✓17609. " "
 ✓17637. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
 ✓17668. " " " "
 ✓17719. *Bejaria resinosa* Mutis
 ✓17727. *Vaccinium moritzianum* Kl. v. *oblongum* Kl.
 ✓17785. *Disterigma alaternoides* (HBK.) Nied.
 ✓17791. *Disterigma empetrifolium* (HBK.) Nied.
 ✓17886. *Daphnopsis bogotensis* Meissn. (comp. type at K.)
 ✓17890. *Monnina mollis* Pl. & Lind. (comp. type coll. at K.)
 ✓17918. *Pernettya myrsinoides* (HBK.) Zucc.
 ✓17927. *Monnina densa* Pl. & Lind.
 ✓17936. *Orthrosanthus chimboracensis* (HBK.) Baker
 ✓18040. *Gaultheria rigida* HBK.
 ✓18048. *Gaultheria scabra* Willd.
 ✓18049. *Gaultheria buxifolia* Willd.
 ✓18153. *Ocotea calophylla* Mez
 ✓18213. *Bejaria resinosa* Mutis
 ✓18264. *Gaultheria buxifolia* Willd.
 ✓18300. *Picramnia corallodendron* Tul. (comp. type at P.)
 ✓18368. *Gaultheria rigida* HBK.
 ✓18371. *Smilax floribundum* Kunth.
 ✓18381. *Monnina elongata* Pl. & Lind. (comp. type coll. at K.)
 ✓18383. *Vaccinium caracasatum* HBK.
 ✓18390. *Bejaria resinosa* Mutis
 ✓18415. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
 ✓18418. *Vaccinium floribundum* HBK.
 ✓18468. " "
 ✓18535. *Sisyrinchium bogotense* HBK.
 ✓18633. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
 ✓18636. *Disterigma empetrifolium* (HBK.) Nied.
 ✓18657. *Sisyrinchium bogotense* HBK.
 ✓18768. *Disterigma alaternoides* (HBK.) Nied.
 ✓18819. *Clethra fagifolia* HBK. (comp. type at P.)
 ✓18894. *Vaccinium caracasatum* HBK.
 ✓18899. " "
 ✓18905. *Gaultheria buxifolia* Willd.
 ✓18909. *Vaccinium caracasatum* HBK.
 ✓18911. *Cissus rhombifolia* Vahl
 ✓18929. *Gaylussacia buxifolia* HBK.
 ✓18934. *Gaultheria rigida* HBK.

Killip & Smith (cont.):

- ✓18972. *Siparuna venezuelensis* Perk.
 ✓19150. x " " "
 ✓19177. " " "
 ✓19299. *Gaultheria buxifolia* Willd.
 ✓19307. " " "
 ✓19326. *Smilax floribunda* Kunth.
 ✓19470. *Picramnia gracilis* Tul.
 ✓19530. *Vaccinium moritzianum* Kl. v. *oblongum* Kl. (comp. type at B.)
 ✓19531. *Bejaria resinosa* Mutis
 ✓19570. *Monnina densa* Pl. & Lind.
 ✓19575. *Pernettya Pentlandii* DC. v. *parvifolia* (Benth.) Wedd.
 ✓19610. *Gaultheria bracteata* (Cav.) G. Don
 ✓19709. *Gaultheria buxifolia* Willd.
 ✓19722. " " " (comp. type at B.)
 ✓19758. *Maytenus Jamesonii* Briq. (comp. type coll. at K.)
 ✓19815. *Bejaria lindeniana* Hering (comp. type at P.)
 ✓19836. *Symbolanthus tricolor* Gilg
 ✓19877. *Lagenanthus princeps* (Lindl.) Gilg (comp. type at K.)
 ✓20027. *Symbolanthus tricolor* Gilg
 ✓20203. *Prunus recurviflora* Koehne (comp. type at B.)
 ✓20283. *Monnina mollis* Pl. & Lind.
 ✓20515. *Nectandra reticulata* (R. & P.) Mez
 ✓20577. *Gaultheria buxifolia* Willd.
 ✓20579. *Symbolanthus tricolor* Gilg (type loc.) (comp. type at B.)
 ✓20596. *Persea Mutisii* HBK.
 ✓20610. *Clethra bicolor* HBK. (comp. type at P.)
 ✓20626. *Ternstroemia meridionalis* Mutis v. *nigricans* Choisy
 ✓20671. *Disterigma alaternoides* (HBK.) Nied.
 ✓20677. *Ternstroemia meridionalis* Mutis v. *nigricans* Choisy
 ✓20678. *Disterigma alaternoides* (HBK.) Nied.
 ✓20679. *Rhamnus Goudotianus* Tr. & Pl.
 ✓20682. *Gaultheria rigida* HBK.
 O✓20687. *Bejaria resinosa* Mutis
 ✓20703. *Gaultheria buxifolia* Willd.
 ✓20740. *Dendrophthora squamigera* (Benth.) B. & H. (comp. type at K.)
 ✓20882. *Ocotea macropoda* (HBK.) Mez vel aff.
 ✓20893. *Gouania pubescens* Lam.
 ✓20896. *Bredemeyera floribunda* Willd.
 ✓20899. *Ocotea Bofo* HBK. (comp. type at P.)
 O✓20914. (N) *Phthirusa pyrifolia* (HBK.) Eichl.
 ✓20998. *Ayenia magna* L.
 ✓21081. *Struthanthus orbicularis* (HBK.) Blume
 O✓21132. *Gouania tomentosa* Jacq.
 O✓21161. *Siparuna venezuelensis* Perk. (comp. type coll. at K.)
 ✓21179. *Vaccinium floribundum* HBK. (comp. type ~~coll.~~ at P.)

KILLIP & SMITH -- COLOMBIA

(Det. Stanley)

- ✓14023. *Alternanthera brasiliana* (L.) Kuntze
 ✓14055. " " " "
 Du 14065. *Amaranthus dubius* Mart.
 ✓14114. *Alternanthera brasiliana* (L.) Kuntze
 ✓14389. *Amaranthus dubius* Mart.
 Du 14446. *Alternanthera ficoidea* (L.) R. Br.
 ✓14580. " *polygonoides* (L.) R. Br.
 Du 14725. " *ficoidea* (L.) R. Br.
 ✓16194. *Iresine celosia* L.
 Du 16206. *Pfaffia iresinoides* (H.B.K.) Spreng.
 ✓16460. *Alternanthera elongata* (Willd.) Standl.
 Du 16470. *Pfaffia iresinoides* (H.B.K.) Spreng.
 Du 16693. *Iresine celosia* L.
 Du 16754. *Alternanthera repens* (L.) Kuntze
 ✓16974. *Iresine celosia* L.
 ✓16998. *Alternanthera elongata* (Willd.) Standl.
 ✓17116. *Iresine argutata* (Mart.) D. Dietr.
 ✓17311. " *celosia* L.
 ✓17384. *Iresine celosia* L.
 ✓17896. " " "
 ✓18338. " " "
 ✓19129. " *spiculigera* Seub.
 ✓19264. " *celosia* L.
 Du 19661. *Amaranthus hybridus* L.
 ✓20035. *Alternanthera microcephala* var. *laticeps* Standl.
 ✓20459. " " " " "
 ✓20501. " *elongata* (Willd.) Standl.
 ✓20925. *Cyathula achyranthoides* (H.B.K.) Moq.
 Du ✓20890. *Pfaffia iresinoides* (H.B.K.) Spreng.
 ✓21011. *Chamissoa altissima* (Jacq.) H.B.K.

LIST OF DETERMINATIONS OF THE KILLIP & SMITH COLOMBIAN COLLECTION.

Compositae named by Dr. S. F. Blake
Cuscuta named by T. G. Yuncker

- 14322 ✓14037. *Spilanthes urens* Jacq.
 ✓14042. *Mentzelia aspera* L.
 ✓14092. *Coccolobis uvifera* (L.) Jacq.
 ✓14169. *Melampodium divaricatum* (Rich:) DC.
 ✓14223. *Elvira biflora* (L.) DC.
 ✓14242. " " " "
 ✓14249. *Millieria quinqueflora* L.
 ✓14282. *Tridax procumbens* L.
 ✓14322 ✓14322. *Spilanthes urens* Jacq.
 ✓14646. *Lactuca intybacea* Jacq.
 ✓15111. *Ichthyothere terminalis* (Jacq.) Blake
 ✓15255. *Erechtites hieracifolia* (L.) Raf.
 ✓15436. *Trixis radialis* (L.) Kuntze
 ✓15443. *Cosmos caudatus* H. B. K.
 ✓15537. *Erechtites valerianaefolia* (Wolf) DC.
 ✓15828. *Achyrocline crassipes* Blake
 ✓15833. *Chrysanthemum parthenium* (L.) Bernh.
 ✓15870. *Sonchus oleraceus* L.
 ✓16184. *Trixis radialis* (L.) Kuntze
 ✓16417. *Cuscuta corymbosa* R. & P.
 ✓16624. *Aster marginatus* H. B. K.
 ✓16672. *Jaegeria hirta* (Lag.) Less.
 ✓16762. *Erigeron karvinskianus* DC.
 ✓17021. " " "
 ✓17194. *Franseria artemisioides* Willd.
 ✓17375. *Mutisia clematitidis* L. f.
 ✓17500. *Loricaria complanata* (Sch. Bip.) Wedd.
 ✓17563. *Diplostephium revolutum* Blake
 ✓17629. *Diplostephium revolutum* Blake
 ✓17652. " " "
 ✓17884. *Franseria artemisioides* Willd.
 ✓17906. *Cuscuta grandiflora* H. B. K.
 ✓18234. *Achyrocline crassipes* Blake
 ✓18484. *Aster marginatus* H. B. K.
 ✓18496. *Achyrocline crassipes* Blake
 ✓18634. *Diplostephium revolutum* Blake
 ✓18668. *Aster marginatus* H. B. K.
 ✓18695. *Diplostephium revolutum* Blake
 ✓18714. *Achyrocline crassipes* Blake
 ✓18763. *Erigeron bonariensis* L.
 ✓18787. " " "
 ✓19022. *Loasa triphylla papaverifolia* (H. B. K.) Urb. & Gilg
 ✓19122. *Sonchus oleraceus* L.
 ✓19600. *Mutisia clematitidis* L. f.
 ✓19638. *Aster marginatus* H. B. K.
 ✓19645. *Cuscuta grandiflora* H. B. K.

- ✓19663. *Aster marginatus* H. B. K.
- ✓19671. *Chrysanthemum parthemum* (L.) Bernh.
- ✓19676. *Franseria artemisioides* Willd.
- ✓20003. *Aster marginatus* H. B. K.
- ✓20180. *Cuscuta corymbosa* R. & P.
- ✓20392. *Loasa triphylla papaverifolia* (H. B. K.) Urb. & Gilg
- o/20683. *Sonchus oleraceus* L.
- ✓20906. *Pluchea odorata* (L.) Cass.
- ✓20947. *Trixis radialis* (L.) Kuntze
- ✓20968. " " " "
- ✓20973. *Tessaria integrifolia* R. & P.
- ✓20982. *Tridax procumbens* L.
- ✓21019. *Isocarpha oppositifolia* (L.) R. Br.
- ✓21023. *Elvira biflora* (L.) DC.
- ✓21045. *Cuscuta americana* L.
- ✓21071. *Egletes humifusa* Less.
- ✓21183. *Sonchus oleraceus* L.

PLANTS COLLECTED IN SOUTH AMERICA BY KILLIP & SMITH--1926

- ✓14065 *Amaranthus dubius* Mart.
 ✓14270 *Aristolochia inflata* H. B. K.
 ✓14278 *Chenopodium ambrosioides* L.
 ✓14279 *Argemone mexicana* L.
 ✓14347 *Mirabilis jalapa* L.
 ✓14378 *Boerhaavia erecta* L.
 ✓14395 *Trema micrantha* (L.) Blume
 ✓14435 *Capparis flexuosa* L.
 ✓14446 *Alternanthera ficoidea* (L.) Lam.
 ✓14455 *Capparis flexuosa* L.
 ✓14520 *Callisia repens* L.
 ✓14541 *Aristolochia inflata* H. B. K.
 ✓14602 *Cleome spinosa* L.
 ✓14615 *Sagittaria latifolia* Willd. (form)
 ✓14659 *Campelia zanonia* (L.) H. B. K.
 ✓14725 *Alternanthera ficoidea* (L.) Lam.
 ✓14818 *Chamissoa altissima* (Jacq.) H. B. K.
 ✓14893 *Gomphrena globosa* L.
 ✓14906 *Cleome spinosa* L.
 ✓14927 *Naias guadalupensis* (Spreng.) Morong
 ✓15013 *Tradescantia cumanaensis* Kunth
 ✓15256 *Hypoxis decumbens* L.
 ✓15296 *Quercus humboldtii* Bonpl.
 ✓15399 *Arenaria lanuginosa* (Michx.) Rehrb.
 ✓15525 *Tovaria diffusa* (Macf.) F. & R.
 ✓15538 *Arenaria lanuginosa* (Michx.) Rehrb.
 ✓15557 *Bocconia frutescens* L.
 ✓15600 *Urtica ballotaeifolia* Wedd.
 ✓15603 *Montia fontana* L.
 ✓15614 *Cerastium glutinosum* H. B. K.
 ✓15721 *Orthrosanthes chimboracensis* (H. B. K.) Baker
 ✓15728 *Montia fontana* L.
 ✓15789 *Calandrinia caulescens* H. B. K.
 ✓15895 *Quercus humboldtii* Bonpl.
 ✓15998 *Myrica pubescens* Willd.
 ✓16027 *Tropaeolum coccineum* Hughes
 ✓16095 " *flavipilum* Killip (type)
 ✓16142 *Drymaria gracilis* C. & S.
 ✓16206 *Pfaffia iresinoides* (H. B. K.) Ktze.
 ✓16230 *Chlorophora tinctoria* (L.) Gaud
 ✓16241 *Trema micrantha* (L.) Blume
 ✓16359 *Dorstenia houstoni* L.
 ✓16428 *Salix humboldtiana* Willd.
 ✓16470 *Pfaffia iresinoides* (H. B. K.) Ktze.
 ✓16633 *Campelia zanonia* (L.) H. B. K.
 ✓16744 *Quercus humboldtii* Bonpl.
 ✓16754 *Alternanthera halimifolia* (Lam.)

- O16801 *Chenopodium ambrosioides* L.
 C16806 *Tradescantia multiflora* Sw.
 ✓16833 *Salix humboldtiana* Willd.
 ✓16912 *Eccremis coarctata* (R. & P.) Baker
 ✓17033 *Myrica pubescens* Willd.
 ✓17073 *Drymaria gracilis* C. & S.
 ✓17093 *Tropaeolum macrophyllum* Killip (type)
 ✓17123 *Myrica pubescens* Willd.
 ✓17170 *Orthrosanthus chimboracensis* (H. B. K.) Baker
 ✓17239 *Alnus ferruginea* H. B. K.
 ✓17265 *Urtica ballotaefolia* Wedd.
 17387 *Arenaria lanuginosa* (Michx.) Rohrb.
 ✓17425 *Drymaria gracilis* C. & S.
 ✓17446 *Tradescantia multiflora* Sw.
 ✓17506 *Cerastium glutinosum* H. B. K.
 ✓17584 *Orthrosanthes chimboracensis* (H. B. K.) Baker
 ✓17685 *Cerastium glutinosum* H. B. K.
 ✓17817 *Drimys winteri* Forst.
 ✓17889 *Alnus ferruginea* H. B. K.
 ✓17928 " " "
 ✓17934 *Escallonia myrtilloides* L. f.
 ✓17935 *Calandrinia caulescens* H. B. K.
 ✓17993 *Orthrosanthus chimboracensis* (H. B. K.) Baker
 ✓18112 *Tropaeolum maculifolium* Hughes
 ✓18267 *Quercus humboldtii* Bonpl.
 ✓18282 *Bacsonia frutescens* L.
 ✓18289 *Eccremis coarctata* (R. & P.) Baker
 ✓18374 *Gaiadendron tagua* (H. B. K.) G. Don
 ✓18563 *Arenaria lanuginosa* (Michx.) Rohrb.
 ✓18621 *Tofieldia sessiliflora* Hook.
 ✓18719 *Urtica ballotaefolia* Wedd.
 ✓18721 *Eccremis coarctata* (R. & P.) Baker
 ✓18777 *Tropaeolum digitatum* Karst.
 ✓18789 " *maculifolium* Hughes
 ✓18925 *Eccremis coarctata* (R. & P.) Baker
 ✓19078 *Quercus humboldtii* Bonpl.
 ✓19087 *Myrica pubescens* Willd.
 ✓19132 *Salix humboldtiana* Willd.
 ✓19343 *Hypoxis decumbens* L.
 ✓19479 *Ficus glabrata* H. B. K.
 ✓19615 *Alnus ferruginea* H. B. K.
 ✓19635 *Calandrinia caulescens* H. B. K.
 ✓19653 *Raphanus sativus* L.
 ✓19661 *Amaranthus hybridus* L.
 O19664 *Chenopodium murale* L.
 ✓19665 *Chenopodium ambrosioides* L.
 ✓19691 *Alnus ferruginea* H. B. K.
 ✓19724 *Tofieldia sessiliflora* Hook.
 ✓19726 *Gaiadendron tagua* (H. B. K.) G. Don
 ✓19745 " " " "

- ✓19805 *Bocconia integrifolia* H. & B.
- ✓19897 *Drimys winteri* Forst.
- ✓20010 *Tropaeolum deckerianum* Moritz & Karst.
- ✓20186 *Myrica pubescens* Willd.
- ✓20200 *Chamissoa altissima* (Jacq.) H. B. K.
- ✓20218 *Tropaeolum wagnerianum* Karst.
- ✓20361 " " "
- ✓20496 *Salix humboldtiana* Willd.
- ✓20539 *Tropaeolum septangulum* Killip (type)
- ✓20561 *Gaiadendron tagua* (H. B. K.) G. Don
- ✓20603 *Tropaeolum dawsonii* Hughes
- ✓20707 *Eccremis coarctata* (R. & P.) Baker
- ✓20727 *Urtica longispica* Killip (*U. ballotaeifolia macrostachya* Wedd.)
- ✓20744 *Chenopodium murale* L.
- ✓20787 *Cyathula achyranthoides* (H. B. K.) Moq.
- ✓20878 *Aristolochia ringens* Vahl
- ✓20890 *Pfaffia iresinoides* (H. B. K.) Ktze.
- ✓20969 *Chamissoa altissima* (Jacq.) H. B. K.
- ✓21001 *Limnocharis flava* (L.) Buchenau
- ✓21013 *Chlorophora tinctoria* (L.) Gaud.
- ✓21026 *Ficus palmicida* Pittier
- ✓21040 *Agave trankeera* Trel. (Det. L. H. Dewey)
- ✓21077 *Capparia flexuosa* L.
- ✓21083 " *verrucosa* Jacq.
- ✓21114 *Drymaria gracilis* C. & S.
- ✓21146 *Juncoides racemosum* (Desv.) Ktze.

KILLIP-SMITH, COLOMBIA

- ✓14101. *Cocos nucifera* L.
- ✓14291. *Sabal mauritiiformis* (Karst.) Gris. & Wendl.
- ✓14316. *Bactris major* Jacq.
- ✓14330. *Desmoncus horridus* Splittg. (ex char.)
- ✓14412. *Acanthorrhiza kalbreyeri* Demmer
- ✓14421. *Bactris major* Jacq.
- ✓14459. *Elaeis malanococca* Gaertn.
- ✓14562. *Astrocaryum malybo* Karst.
- ✓14756. *Elaeis malanococca* Gaertn.
- ✓14808. *Oenocarpus mapora* Karst.
- ✓14809. *Astrocaryum malybo* Karst.
- ✓14845. *Oenocarpus mapora* Karst.
- ✓14866. *Geonoma paniculigera* Mart.
- ✓14896. *Socratea macrochlamys* Burret
- ✓14900. *Bactris sanctae-paulae* Engel
- ✓15314. *Calyptrogyna kalbreyeri* Burret
- ✓15323. *Bactris* sp. (sterile)
- ✓15325. *Euterpe* sp. (incomplete)
- ✓15336. *Geonoma pulchra* Engel
- ✓16001. *Phytelephas* (sterile)
- ✓16044. *Geonoma rhytidocarpa* Burret
- ✓16347. *Washingtonia filifera* H. Wendl.
- ✓16362. *Martinezia killipii* Burret (type)
- ✓17040. *Chamaedorea* sp.
- ✓18996. " "
- ✓19077. *Euterpe* sp. (sterile)
- ✓19266. *Morenia corallina* Karst.
- ✓19452. *Chamaedorea pinnatifrons* (Jacq.) Oerst.
- ✓19315. " sp. *
- ✓20413. " "
- ✓21075. *Cepernicia* sp. (sterile)

KILLIP-SMITH, COLOMBIA

- ✓14208. *Opuntia schumannii* Weber (Det. Rose)
 ✓14416. *Claviija latifolia* (Willd.) Radlk.
 ✓14565. *Opuntia schumannii* Weber (Det. Rose)
 ✓15020. *Eugenia jambos* L.
 ✓15074. *Vismia dealbata* H.B.K.
 ✓15298. *Begonia towarensis* Kl.
 ✓15623. *Acaena elongata* L.
 ✓15866. *Ternstroemia andina* Wawra
 ✓16037. *Begonia urticae* L. f.
 ✓16181. *Mandevilla mollissima scabra* (R. & S.) Woods. (Det. Woodson)
 ✓16231. *Cephalocereus russelianus* (Otto) Rose
 ✓16285. *Epiphyllum phyllanthus* (L.) Haw.
 ✓16335. *Vismia dealbata* H.B.K.
 ✓16349. *Rhipsalis cassutha* Gaertn. (Det. Rose)
 ✓16378. *Opuntia schumannii* Weber (Det. Rose)
 ✓16398. *Epiphyllum hookeri* Haw.
 ✓16488. *Prockia septemnervia* Spreng.
 ✓16702. *Begonia microphylla* A. DC.
 ✓16761. " *foliosa* H.B.K.
 ✓16795. *Oxybaphus violaceus* (L.) Chois. (Det. Standley)
 ✓16805. *Begonia foliosa* H.B.K.
 ✓16855. *Oxybaphus violaceus* (L.) Chois. " "
 ✓17015. *B. foliosa* H.B.K.
 ✓17497. *Stachys repens* M. & G. (Det. Epling)
 ✓18031. *Acaena elongata* L.
 ✓18299. *Begonia foliosa* H.B.K.
 ✓18339. " *microphylla* A. DC.
 ✓18355. " " "
 ✓18902. *Ternstroemia andina* Wawra
 ✓18974. *Begonia urticae* L. f.
 ✓19017. " *foliosa* H.B.K.
 ✓19095. *Minthostachys mollis* Griseb. (Det. Epling)
 ✓19221. *Begonia foliosa* H.B.K.
 ✓19232. *Vismia dealbata* H.B.K.
 ✓19763. *Begonia foliosa* H.B.K.
 ✓19817. " " "
 ✓19819. " " "
 ✓20090. " *glabra* Aubl.
 ✓20552. " *foliosa* H.B.K.
 ✓20895. *Casearia hirsuta* Sw.
 ✓21005. *Opuntia schumannii* Weber (Det. Rose)
 ✓21027. *Cactus amoenus* Hoffm.
 ✓21053. *Opuntia wentiana* B. & R.
 ✓21069. *Lemaireocereus griseus* (Haw.) B. & R.
 ✓21159. *Begonia microphylla* A. DC.
 ✓20456. *Begonia glabra* Aubl.

KILLIP-SMITH, Colombia.

(Det. E. Wimmer, Vienna)

- ✓15976. *Siphocampylus tuberculatus carmesinus* Wimmer
✓20774. " *planchonis* Wimmer
✓20320. " *laevigatus* Planch.
✓20591. " " "
✓17926. " *peritornus* Wimmer
✓17820. " " *ricensis* Wimmer
✓17773. " " " "
✓17704. " " " "
✓17271. " " " "
✓21142. " " " "
✓17818. " " " "
✓17849. " " " "
✓16549. " *phyllobotrys leucanthus* Wimmer (type)
✓16545. " " Wimmer
✓15480. " " "
✓21164. " " "
✓16993. " " "
✓16610. " " "
✓15375. " " "
✓20717. *Centropogon flos-mutisii* Wimmer
✓20585. " " "
✓20074. " *lutens bicolor* Wimmer (type)
✓19980. " *albertinus* Wimmer (type)

Det. E. P. Killip

- ✓20576. *Siphocampylus laevigatus* Planch.
✓21195. " " "
✓16513. " *phyllobotrys* Wimmer
✓16779. " " "
✓17270. " *peritornus ricensis* Wimmer
✓17828. " " " "
✓19754. *Centropogon flos-mutisii* Wimmer

DETERMINATIONS FROM THE GRAY HERBARIUM

Killip & Smith

Plants of Colombia

1927

- 15032 *Cuphea callosa* Bacigalupi n. sp. Type
 15168 " *antisyphilitica* HBK.
 15542 " *columbiana* Bacigalupi n. sp.
 15620 *Alchemilla Purdiei* Perry
 " *vulcanica* Schlecht. & Cham.
 15667 *Plantago monticola* Decne., subsp. *angusta* Pilger
 16012 *Cuphea columbiana* Bacigalupi, n. sp.
 17134 " " "
 17413 *Plantago monticola* Decne., subsp. *angusta* Pilger
 17465 " " " " "
 17512 *Alchemilla aphanoides* L. f., var. *tripartita* (R. & P.) Perry
 17570 *Plantago monticola* Decne., subsp. *angusta* Pilger
 17594 " " " " "
 17621 *Alchemilla galioides* Benth.?
 17630 *Plantago linearis* Kunth., var. *eulinaris* Pilger
 17631 *Alchemilla Purdiei* affin.?
 " " *vulcanica* Schlecht. & Cham.
 17644 " *procumbens* Rose, var. *andina* Perry
 17853 " *aphanoides* L. f.
 18045 " " " var. *tripartita* (R. & P.) Perry
 18201 " " " "
 " " *procumbens* Rose., var. *andina* Perry
 18223 " *aphanoides* L. f.
 18276 *Cuphea columbiana* Bac., n. sp. Type
 18412 *Alchemilla procumbens* Rose, var. *andina* Perry
 18424 *Plantago monticola* Decne., subsp. *angusta* Pilger
 18438 *Alchemilla Purdiei* Perry
 18525 " *procumbens* Rose, var. *andina* Perry
 18539 " *aphanoides* L. f.
 18553 *Plantago monticola* Decne., subsp. *angusta* Pilger
 18571 " *oreades* Decne.
 18642 *Alchemilla hispidula* Perry
 18654 *Plantago linearis* Kunth, var. *agrostophylla* (Decne.) Pilger
 18738 *Alchemilla aphanoides* L. f.
 19117 *Alomia coelestina* (Regel) Robinson
 19750 *Alchemilla procumbens* Rose, var. *andina* Perry
 19757 *Cuphea dipetala* (L. f.) Koehne^{fide} Bacigalupi
 20211 *Plantago hirtella* Kunth
 20485 *Cuphea dipetala* (L. f.) Koehne fide Bacigalupi
 21189 *Alchemilla* (indeterminate)

Alomia determined by Dr. Robinson
Plantago " " Dr. Pilger
Cuphea " " Mr. Bacigalupi
Alchemilla " " Miss Perry

KILLIP-SMITH, COLOMBIA

Identified at U. S. National Herbarium, May 12, 1931.

- ✓14010. *Fimbristylis spathacea* Roth
 ✓14098. " " "
 ✓14099. " *spadicea* (L.) Vahl
 ✓14102. *Cyperus ligularis* L.
 ✓14105. *Cyperus odoratus* L.
 ✓14117. *Jacquinia revoluta* Jacq.
 ✓14158. *Cyperus confertus* Sw.
 ✓14189. " *ferax* L. C. Rich.
 Du ✓14191. *Rauwolfia canescens* L.
 ✓14253. *Sicydium tamnifolium* (H.B.K.) Cogn.
 ✓14323. *Funastrum glaucum* (H.B.K.) Schltr.
 ✓14434. *Cissampelos pereira* L.
 ✓14437. *Funastrum clausum* (Jacq.) Schltr.
 ✓14449. *Cyperus ligularis* L.
 Du ✓14451. *Capraria biflora hirta* Loes.
 ✓14458. *Cyperus ferax* L. C. Rich.
 ✓14461. " *luzulae* (L.) Retz
 ✓14463. *Fimbristylis spadicea* (L.) Vahl
 ✓14477. *Sicydium coriaceum* Cogn.
 ✓14496. *Cyperus panamensis* Britton
 ✓14566. *Cyperus compressus* L.
 ✓14605. " *surinamensis* Rottb.
 ✓14612. *Fimbristylis miliacea* (L.) Vahl
 ✓14614. *Cyperus comosus* (Willd.) Poir.
 ✓14625. *Dichorisandra hexandra* (Aubl.) Kuntze (Det. Gleason)
 Du ✓14636. *Capraria biflora hirta* Loes.
 ✓14649. *Cyperus ferax* L. C. Rich.
 ✓14743. *Scleria microcarpa* Nees
 ✓14746. *Clavija engelsii* Mez
 ✓14766. *Cyperus ferax* L. C. Rich.
 ✓14772. " *luzulae* (L.) Retz
 ✓14783. " *diffusus* Vahl
 ✓14792. *Rynchospora corymbosa* (L.) Britton
 ✓14797. *Stenophyllus tenuifolius* (Rudge) Britton
 ✓14812. *Rynchospora cephalotes* (L.) Vahl
 ✓14821. *Nymphaea blanda fenzliana* Casp.
 ✓14829. *Cyperus cayannensis* (Lam.) Britton
 l ✓14842. *Hypolytrum sylvaticum* Poepp. & Kth.
 ✓14844. *Calyptrocarpa glomerulata* (Brongn.) Urban
 ✓14878. *Diplazia karataefolia* L. C. Rich.
 ✓14884. *Vandellia diffusa* L.
 ✓14897. *Cyperus compressus* L.
 ✓14902. *Dichromena pubera* Vahl.
 ✓14915. *Cyperus haspan* L.
 ✓14937. *Funastrum clausum* (Jacq.) Schltr.

- ✓15022. *Rapanea ferruginea* (R. & P.) Mez
 ✓15031. *Syngonanthus caulescens* (Poir.) Ruhl.
 ✓15034. *Monocardia lilacina* Pennell
 ✓15051. *Rynchospora polyphylla* Vahl
 ✓15083. *Kyllinga pumila* Michx.
 ✓15091. *Cyperus cayennensis* (Lam.) Britton
 ✓15125. *Hydrocotyle umbellata* L.
 ✓15126. *Symbolanthus magnificus* Gilg
 ✓15133. " " "
 ✓15140. *Rynchospora globosa* (H.B.K.) R. & S.
 ✓15173. *Juncus microcephalus* H.B.K.
 ✓15175. *Fimbristylis autumnalis* (L.) R. & S.
 15194. *Scleria liebmanni* Steud.
 ✓15196. *Dichromena ciliata* Vahl
 ✓15229. *Stenophyllus paradoxus* (Spreng.) Standl.
 15235. *Stenophyllus junciformis* (H.B.K.) Britton
 ✓15237. *Rynchospora glauca* Vahl
 ✓15242. " " " (form) ?
 ✓15535. *Cyperus hermaphroditus* (Jacq.) Standl.
 ✓15540. *Leucocarpus perfoliatus* (H.B.K.) Benth.
 ✓15584. *Alonsoa meridionalis* (L. f.) Kuntze
 ✓15590. *Hydrocotyle bonplandii* Rich.
 ✓15629. *Gentiana nevadensis* Gilg
 ✓15670. *Oreomyrrhis andicola* Endl.
 ✓15671. *Lysipoma montioides* H.B.K.
 ✓15891. *Grammadenia lehmannii* Mez
 ✓16005. *Cyperus melanostachys* H.B.K.
 ✓16015. *Gratiola bogotensis* Cortes
 ✓16023. *Hydrocotyle* (aff. *H. pamplonensis* Killip; sterile)
 ✓16038. Insect (destroyed)
 ✓16070. *Dichromena ciliata* Vahl
 ✓16110. *Duranta mutisii* L. f.
 ✓16133. *Lozanella enantiophylla* (Donn. Sm.) Killip & Morton
 ✓16170. *Syngonanthus magnificus* Gilg
 ✓16339. *Buchnera longifolia* Kunth
 ✓16373. *Cyperus olfersianus* Kunth
 ✓16547. *Stenophyllus capillaris* (L.) Britton? (or *S. tenuifolius*?)
 ✓16571. *Hydrocotyle bonplandii* Rich.
 ✓16579. *Sanicula liberta* C. & S.
 ✓16606. *Muhlenbeckia tiliaefolia* Wedd.
 ✓16641. *Uncinia hamata* (Sw.) Urban
 ✓16707. *Mimulus glabratus* H.B.K.
 ✓16710. *Hydrocotyle bonplandii* Rich.
 ✓16715. *Pelargonium radula* x *graveolens* DC. (Det. Knuth)
 ✓16716. *Pelargonium odoratissimum* (L.) Ait. (Det. Knuth)
 ✓16788. *Mimulus glabratus* H.B.K.
 ✓16863. *Cyperus hermaphroditus* (Jacq.) Standl.
 ✓16871. *Alonsoa meridionalis* (L. f.) Kuntze
 ✓16895. *Dichromena ciliata* Vahl

- ✓16932. *Hydrocotyle bonplandii* Rich.
- ✓17039. *Leucocarpus perfoliatus* (H.B.K.) Benth.
- ✓17086. *Clavija longifolia* (Jacq.) Mez
- ✓17087. *Ardisia foetida* Willd.
- ✓17094. *Rynchospora polyphylla* Vahl
- ✓17106. *Leucocarpus perfoliatus* (H.B.K.) Benth.
- ✓17246. *Digitalis purpurea* L.
- ✓17364. *Digitalis purpurea* L.
- ✓17525. *Gentiana nevadensis* Gilg
- ✓17645. *Muhlenbeckia vulcanica* (Benth.) Endl.
- ✓17673. *Duchesnea indica* (Andr.) Focke
- ✓17677. *Mimulus glabratus* H.B.K.
- ✓17765. *Hydrocotyle bonplandii* Rich.
- ✓17786. *Alonsoa meridionalis* (L. f.) Kuntze
- ✓17894. *Eryngium paniculatum* Cav.
- ✓17938. *Rapanea dependens* (R. & P.) Mez
- ✓18034. *Daucus montanus* Willd.
- ✓18126. *Hydrocotyle bonplandii* Rich.
- ✓18131. *Mimulus glabratus* H.B.K.
- ✓18152. *Eryngium paniculatum* Cav.
- ✓18200. *Alonsoa meridionalis* (L. f.) Kuntze
- ✓18228. *Potentilla heterosepala* Fritsch
- ✓18310. *Sagina procumbens* L.
- ✓18359. *Rapanea jelskii* (Zahlbr.) Mez
- ✓18406. *Carex polystachya* Sw.? (barren)
- ✓18513. *Hydrocotyle bonplandii* Rich.
- ✓18519. *Hydrocotyle bonplandii* Rich.
- ✓18552. Perhaps *Cyperaceae* (not worth saving)
- ✓18640. *Eryngium paniculatum* Cav.
- ✓18696. *Uncinia hamata* (Sw.) Urban? (barren)
- ✓18754. *Alonsoa meridionalis* (L. f.) Kuntze
- ✓18853. *Hydrocotyle bonplandii* Rich.
- ✓18859. *Leucocarpus perfoliatus* (H.B.K.) Benth.
- e ✓18895. *Peperanthus schlimii* Koern.
- ✓18957. *Castilleja communis* Benth.
- ✓19027. *Hydrocotyle bonplandii* Rich.
- ✓19033. *Rynchospora aristata* Boeckl.
- ✓19036. *Clavija longifolia* (Jacq.) Mez
- ✓19059. *Triplaris caracasana* Cham.
- ✓19113. *Clavija longifolia* (Jacq.) Mez
- ✓19124. *Spananthe paniculata* Jacq.
- ✓19239. *Castilleja communis* Benth.
- ✓19366. *Spananthe paniculata* Jacq.
- ✓19438. *Alonsoa meridionalis* (L. f.) Kuntze
- ✓19510. *Daucus montanus* Willd.
- ✓19512. *Cyclospermum leptophyllum* (Pers.) Sprague (*Apium ammi* (Jacq.) Urb.)
- ✓19628. *Salvia killipiana* Epl. (det. Epling)
- ✓19641. *Conium maculatum* L.
- ✓19657. *Fuchsia hybrida* Voss. (form)

- 19698. *Juncus tenuis* Willd. *not found*
- ✓19818. *Macrocarpaea polyantha* Gilg
- ✓19862. *Rynchospora aristata* Boeckl.
- ✓19892. *Gratiola bogotensis* Cortes
- ✓20004. *Hydrocotyle pamplonensis* Killip, ined. (type)
- ✓20185. *Alonsoa meridionalis* (L.f.) Kuntze
- ✓20193. *Styrax micrasterus* Perk.
- ✓20266. *Kyllinga pumila* Michx.
- ✓20348. *Cyperus hermaphroditus* (Jacq.) Standl.
- ✓20352. *Leucocarpus perfoliatus* (H.B.K.) Benth.
- ✓20380. *Styrax micrasterus* Perk.
- ✓20446. *Sanicula liberta* C. & S.
- ✓20512. *Carex polystachya* Sw.
- ✓20613. *Macrocarpaea polyantha* Gilg
- ✓20652. *Hydrocotyle bonplandii* Rich.
- ✓20768. *Spananthe paniculata* Jacq.
- ✓20930. *Cyperus olfersianus* Kunth
- ✓20933. *Stemodia durantifolia* Sw.
- ✓20999. *Funastrum glaucum* (H.B.K.) Schltr.
- ✓21080. *Capparis nemorosa* Jacq.
- ✓21082. *Capparis tenuisiliqua* Jacq.
- ✓21100. *Beloperone sanmartensis* Rusby (Det. Leonard)
- ✓21101. *Jacquinia gracilis* Mez
- ✓21105. *Funastrum ovalifolium* (Rusby) Killip
- ✓21111. " *glaucum* (H.B.K.) Schltr.
- 21121. *CyclospERMUM leptophyllum* (Pers.) Sprague (*Apium armi* (Jacq.) Urb.)
- ✓21176. *Rapanea dependens* (R. & P.) Mez
- 21204. *Digitalis purpurea* L.
- 21209. *Mentha?* (Det. Epling) A barren "remedio" plant.
- 21215. *Hydrocotyle bonplandii* Rich.
- 21224. *Styrax micrasterus* Perk.

- ✓15049. *Psammisia penduliflora* (Dun.) Kl.
 ✓15108. " "
 ✓15124. *Cavendishia killipii* A.C. Smith (type)
 ✓15465. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓15722. *Macleania nitida* (HBK.) Hoer.
 ✓15794. *Themistoclesia vegasana* A.C. Smith (type)
 ✓15803. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓15806. *Macleania nitida* (HBK.) Hoer.
 ✓15820. *Thibaudia floribunda* HBK.
 ✓15871. *Cavendishia ~~gracilis~~ gracilis* A.C. Smith (type)
 ✓15880. *Themistoclesia vegasana* A.C. Smith
 ✓15918. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓15978. *Cavendishia splendens* (Kl.) Hoer.
 ✓15980. " "
 ✓15987. *Orthaea cavendishioides* A.C. Smith (type).
 ✓15997. *Cavendishia gracilis* A.C. Smith
 ✓16090. *Cavendishia splendens* (Kl.) Hoer.
 ✓16100. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓16621. *Psammisia penduliflora* (Dun.) Kl.
 ✓16764. *Cavendishia splendens* (Kl.) Hoer.
 ✓16777. *Psammisia penduliflora* (Dun.) Kl.
 ✓17174. *Psammisia falcata* (HBK.) Kl.
 ✓17280. *Macleania nitida* (HBK.) Hoer.
 ✓17281. " "
 ✓17336. " "
 ✓17586. " "
 ✓17698. " "
 ✓17744. " "
 ✓17857. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓17873. *Psammisia penduliflora* (Dun.) Kl.
 ✓17994. *Macleania nitida* (HBK.) Hoer.
 ✓18013. *Psammisia penduliflora* (Dun.) Kl.
 ✓18087. *Thibaudia floribunda* HBK.
 ✓18222. *Macleania nitida* (HBK.) Hoer.
 ✓18370. *Psammisia falcata* (HBK.) Kl.
 ✓18606. *Macleania nitida* (HBK.) Hoer.
 ✓18784. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓18791. *Thibaudia floribunda* HBK.
 ✓18794. *Psammisia falcata* (HBK.) Kl.
 ✓18868. *Psammisia penduliflora* (Dun.) Kl.
 ✓18872. " "
 ✓18875. *Cavendishia cordifolia* (HBK.) Hoer.
 ✓18883. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓18888. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓18950. *Cavendishia splendens* (Kl.) Hoer.
 ✓19039. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓19091. " "
 ✓19099. *Psammisia penduliflora* (Dun.) Kl.
 ✓19308. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓19312. *Cavendishia scabriuscula* (HBK.) Hoer.
 ✓19435. *Cavendishia pubescens* (HBK.) Hemsl.
 ✓19460. " "
 ✓19631. *Macleania nitida* (HBK.) Hoer.
 ✓19738. " "

Killip & Smith (2)

- ✓ 19781. *Cavendishia scabriuscula* (HBK.) Hoer.
✓ 19914. *Macleania nitida* (HBK.) Hoer.
✓ 19936. *Themistoclesia hirsuta* A.C. Smith (type)
✓ 20051. *Psammisia ~~penduliflora~~ penduliflora* (Dun.) Kl.
✓ 20055. *Cavendishia pubescens* (HBK.) Hemsl.
✓ 20108. *Psammisia penduliflora* (Dun.) Kl.
✓ 20481. " "
✓ 20587. " "
✓ 20588. *Cavendishia splendens* ~~(HBK.)~~ (Kl.) Hoer.
✓ 20674. " "
✓ 20676. " "
✓ 20731. *Cavendishia scabriuscula* (HBK.) Hoer.
✓ 21172. *Macleania nitida* (HBK.) Hoer.
✓ 21218. *Cavendishia cordifolia* (HBK.) Hoer.

Rec'd. this list 1/28/32 G

KILLIP-SMITH, COLOMBIA

Jan. 1932

- ✓14020. Hippocrate^a celastroides H.B.K.
- ✓14116. " " "
- ✓14127. Pedilanthus tithymaloides (L.) Poit.
- ✓14207. Gouania tomentosa Jacq.
- ✓14335. Iuehea candida (DC.) Mart.
- ✓14373. Tournefortia angustiflora R. & P.
- ✓14374. Paullinia macrophylla H.B.K.
- ✓14626. Phaseolus caracalla L.
- ✓14668. Tournefortia angustiflora R. & P.
- ✓14680. Combretum laxum Jacq. (Det. Exell)
- ✓14753. Phaseolus peduncularis H.B.K.
- ✓14776. Centrosema virginicum (L.) Benth.
- ✓14795. Teramnus volubilis Sw.
- ✓14817. Gouania tomentosa Jacq.
- ✓14944. Tournefortia angustiflora R. & P.
- ✓14949. " obscura DC.
- ✓15045. Eleocharis sulcata Nees
- ✓15130. Escobedia grandiflora (L. f.) Pennell (Det. Pennell)
- ✓15367. Alchornea grandiflora Muell. Arg.
- ✓15388. Triumfetta semitriloba L.
- ✓15420. Croton leptostachyus Muell. Arg.
- ✓15447. Bombax carabobense Pittier
- ✓15501. Desmodium campylocladum (Hemsl.)
- ✓15735. Buddleia mollis H.B.K.
- ✓15963. Carludovica plicata Kl.
- ✓16193. Croton leptostachyus Muell. Arg.
- ✓16225. Croton leptostachyus Muell. Arg.
- ✓16226. Sida cordifolia L.
- ✓16307. Melochia venosa Sw.
- ✓16331. Bombax carabobense Pittier
- ✓16389. Tournefortia volubilis L.
- ✓16792. Vigna vexillata (L.) A. Rich.
- ✓17029. Tournefortia scabrida H.B.K.
- ✓17035. Eleocharis nodulosa Schultes
- ✓17142. Desmodium molliculum (H.B.K.) DC.
- ✓17163. Tournefortia fuliginosa H.B.K.
- ✓17210. Escobedia parvifolia Pennell (type)
- ✓17309. Buddleia mollis angustifolia Benth.
- ✓17904. Tournefortia fuliginosa H.B.K.
- ✓17909. " " "
- ✓18520. Eleocharis stenocarpa Svenson? (achenes too young).
- ✓19012. Tournefortia scabrida H.B.K.
- ✓19054 ✓19054 " volubilis L.
- ✓19058. Urvillea ulmacea H.B.K.
- ✓19135. Tournefortia scabrida H.B.K.
- ✓19201. Pilea mutisiana (Spreng.) Wedd.
- ✓19233. Phaseolus hirsutus Mart.
- ✓19238. Tournefortia scabrida H.B.K.
- ✓19347. Escobedia grandiflora (L. f.) Pennell (Det. Pennell)
- ✓19366. Citrus medica L.

Killip-Smith, Colombia--2

19517. *Croton speciosus* Muell. Arg.
✓19484. *Tournefortia scabrida* H.B.K.
o19493. " " "
19502. *Delostoma roseum* (Karst. & Tr.) K. Sch.
✓19765. *Dodonaea viscosa* L.
✓19773. *Rhamnus humboldtianus* R. & S.
19859. *Carludovica plicata* Kl.
✓19874. *Tournefortia fuliginosa* H.B.K.
✓20023. " *scabrida* H.B.K.
✓20138. " " "
✓20181. " " "
✓20286. " " "
✓20471. " " "
✓20679. *Rhamnus humboldtianus* R. & S.
o 20848. *Desmodium uncinatum* (Jacq.) DC.
✓20893. *Gouania tomentosa* Jacq.
✓20902. *Tournefortia hirsutissima* L.
✓20913. " *volubilis* L.
✓20959. " *peruviana* Poir.
✓21037. *Croton flavens* L.
✓21049. " " "
o 21109. *Desmodium uncinatum* (Jacq.) DC.
o 21140. " *cajanifolium* (H.B.K.) DC.

Rec'd. Jan. 20 1932 G

MALPIGHIACEAE, Det C. V. Morton.

Killip & Smith, Colombia.

- ✓14524. *Tetrapteryx discolor* (G. F. W. Mey.) DC.
✓14669. " *seemanni* Tr. & Pl. (not *T. papyracea* Tr. & Pl.)
✓16453. *Gaudichaudia albida* C. & S.
✓19019. *Tetrapteryx killipii* Morton sp. nov. (type)
✓19824. *Hiraea colombiana* Morton sp. nov.
✓20474. " " " " " (type)

9

KILLIP-SMITH, COLOMBIA

Compositae, det. S. F. Blake; Solanaceae, C. V. Morton; Acanthaceae,
E. C. Leonard; others by E. P. Killip unless otherwise noted.
Comparisons made in Europe by E. P. Killip, 1932.

U. S. National Museum, August, 1932.

- ✓14124. *Serjania columbiana* Radlk.
 ✓14201. " " "
 ✓14210. " " "
 ✓14225. *Wissadula periplocifolia* Presl (form; comp. at Berlin)
 ✓14254. *Carica papaya* L.
 ✓14264. *Serjania columbiana* Radlk.
 ✓14310. *Aphelandra pulcherrima* (Jacq.) H. B. K.
 ✓14324. *Serjania paniculata* H. B. K.
 ✓14401. *Gynerium sagittatum* (Aubl.) Beauv. (Det. Chase)
 ✓14402. *Carludovica palmata* R. & P.
 ✓14439. *Serjania paniculata* H. B. K.
 ✓14457. *Cyperus ochraceus* Vahl (Det. Gross)
 ✓14514. *Serjania columbiana* Radlk.
 ✓14516. *Aphelandra pulcherrima* (Jacq.) H. B. K.
 ✓14548. *Solanum scabrum* Vahl
 ✓14613. *Nymphaea amazonum* Mart. & Zucc. 14637
 ✓14637. *Serjania paniculata* H. B. K.
 ✓14701. *Solanum scabrum* Vahl
 ✓14769. " " "
 ✓14779. *Megaskepasma erythrochlamys* Lindau
 ✓14790. *Melochia corchorifolia* L. (form)
 ✓14869. *Cyclanthus bipartitus* Poit.
 ✓14902. *Dichromena pubera* Vahl (form) Det. Gross
 ✓14948. *Melochia benthami* K. Sch. (Comp. At Paris)
 ✓15021. *Rubus floribundus* H. B. K. (Comp. with type in Humboldt Herb.,
Paris)
 ✓15075. *Jussiaea peruviana glaberrima* Donn. Smith
 ✓15114. *Solanum sisymbriifolium* Lam.
 ✓15156. *Jussiaea lithospermifolia* (Kunth) Micheli (Approaching *J. nervosa*;
comp. at Berlin)
 ✓15179. *Turnera ulmifolia serissima* Killip (type)
 ✓15259. *Solanum quinquangulare* Willd.
 ✓15283. *Croton palanostigma* Kl. (form)
 ✓15401. " *dolichostochyus* Pittier
 ✓15438. *Serjania rhombea* Radlk.
 ✓15479. *Antidaphne colombiana* Killip
 ✓15514. *Boehmeria caudata* Sw.
 ✓15518. *Heliocarpus popayanensis* H. B. K.
 ✓15567. *Rubus porphyromallus* Focke
 ✓15577. *Rubus bogotensis* H. B. K.
 ✓15626. *Paepalanthus dendroides* (H. B. K.) Kunth (Comp. with type at Berlin)
 ✓15628. *Arenaria serpens* H. B. K.

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- ✓15717. *Rubus bogotensis* H. B. K.
 ✓15735. *Buddleia bullata* H. B. K. (Corr.)
 ✓15831. *Brunellia propinqua* H. B. K. (Comp. with type at Paris)
 ✓15849. " " " " " " " "
 ✓15865. *Palicourea caloneura* Rusby (Det. Standley)
 ✓16005. *Cyperus melanostachys* H. B. K. (Reported?)
 ✓16006. *Rynchospora kunthii* Nees (Det. Gross)
 ✓16064. *Paepalanthus pilosus* (H. B. K.) Kunth (Comp. with type at Berlin)
 ✓16085. *Saurauja strigillosa* Tr. & Pl. (Comp. with type at Paris)
 ✓16103. *Rubus floribundus* H. B. K.
 ✓16138. *Aphelandra fucinata* Kl.
 ✓16172. *Turnera ulmifolia* L. (form)
 ✓16179. *Serjania rhombica* Radlk.
 ✓16185. *Urvillea ulmacea* H. B. K.
 ✓16197. *Hemistylis macrostachya* Wedd. (Comp. with type at Paris)
 ✓16226. *Melochia caracasana* Jacq. (Correction)
 ✓16227. *Urvillea ulmacea* H. B. K.
 ✓16251. *Waltheria subcordata* Standl.
 ✓16266. *Jussiaea peruviana glaberrima* Donn. Smith
 ✓16270. *Hemistylis macrostachya* Wedd.
 ✓16283. *Aphelandra tetragona* (Vahl) Nees
 ✓16319. *Phthirusa pyrifolia* (H. B. K.) Eichl.
 ✓16355. *Barleria micans* Nees
 ✓16427. *Buddleia spicata* R. & P. (Comp. with type at Berlin)
 ✓16472. *Jussiaea peruviana glaberrima* Donn. Smith
 ✓16474. *Euphorbia cotinifolia* L. (form)
 ✓16499. *Mauria ovalifolia* Turcz.
 ✓16506. *Buddleia spicata* R. & P.
 ✓16596. *Saurauja pycnotricha* Turcz. (Comp. at Paris by E. C. Smith)
 ✓16601. *Mauria ovalifolia* Turcz.
 ✓16612. *Rubus floribundus* H. B. K.
 ✓16618. " *adenotrichus* Schlecht X?
 ✓16640. *Carludovica moritziana* Kl. (Comp. with type coll. at Brit. Mus.)
 ✓16712. *Apium graveolens* L. (Det. Mathias)
 ✓16721. *Rubus glaucus* Benth.
 ✓16728. *Rubus porphyromallus* Focke
 ✓16778. *Rubus floribundus* H. B. K.
 ✓16789. *Croton pungens* Jacq.?
 ✓16813. *Mauria ovalifolia* Turcz. (approaching *M. beiringeri* var. *granatensis* Engl.)
 ✓16823. *Hemistylis velutina* Wedd. (Comp. with type at Paris)
 ✓16843. *Croton pungens* Jacq.
 ✓16865. *Mauria ovalifolia* Turcz.
 ✓16934. *Solanum scorpoideum* Rusby
 ✓16960. *Rubus floribundus* H. B. K.
 ✓16963. *Rubus glaucus* Benth.
 ✓17030. *Croton pungens* Jacq.
 ✓17099. *Spigelia pedunculata* H. B. K. (Corr.; comp. at Berlin)
 ✓17145. *Gaiadendron tagua* (H. B. K.) G. Don
 ✓17147. *Rubus floribundus* H. B. K.
 ✓17309. *Buddleia lindenii* Benth. (Corr.)
 ✓17317. *Rubus bogotensis* H. B. K. (Comp. with type in Humboldt Herb., Paris)
 ✓17581. *Rubus acanthophyllus* Focke (Comp. at Paris and Kew)
 ✓17628. *Hesperomeles ferruginea* (Pers.) Benth.

Killip-Smith

- ✓17723. *Hesperomeles ferruginea* (Pers.) Benth. (Comp. at Paris)
 ✓17780. *Rubus bogotensis* H. B. K.
 ✓17845. *Buddleia lindenii* Benth.
 ✓17862. *Rubus nubigenus* H. B. K. (Comp. with type in Humboldt Herb., Paris)
 ✓17895. " *bogotensis* H. B. K. (Comp. with type " " ")
 ✓17907. " *floribundus* H. B. K. (" " " " " ")
 ✓17924. *Hesperomeles obtusifolia* Lindl.
 ✓17989. *Rubus bogotensis* H. B. K.
 ✓18039. *Gaiadendron tagua* (H. B. K.) G. Don
 ✓18055. *Brunellia subintegra* Killip (type)
 ✓18063. *Hesperomeles nitida* Killip (type)
 ✓18202. *Rubus bogotensis* H. B. K.
 ✓18254. *Stellaria media* L.
 ✓18270. *Urtica ballotaeifolia* Wedd.
 ✓18319. " " " (Comp. with type at Paris)
 ✓18322. *Saurauja excelsa xantho^{tr}richa* Turcz. (Comp. at Berlin)
 ✓18323. *Rubus bogotensis* H. B. K.
 ✓18325. *Serjania caracasana puberula* Radlk. (Comp. at Berlin)
 ✓18343. *Buddleia spicata* R. & P.
 ✓18384. *Hesperomeles ferruginea* (Pers.) Benth.
 ✓18470. *Polylepis hypoleuca* Wedd., (sterile; agrees well with Steubel 115 at Berlin)
 ✓18522. *Rubus acanthophyllus* Focke
 ✓18632. *Hesperomeles pernettyoides* Wedd. (Comp. with type at Paris)
 ✓18677. *Rubus acanthophyllus* Focke
 ✓18715. " *bogotensis* H. B. K. (Comp. with type in Humboldt. Herb., Paris)
 ✓18874. *Mauria ovalifolia* Turcz. (typical; compared at Berlin)
 ✓18882. *Antidaphne colombiana* Killip (type)
 ✓18897. *Mauria ovalifolia* Turcz. (approaching *M. heterophylla*; comp. at Berlin)
 ✓18916. *Gurania* (perhaps near *G. diffusa* Cogn.; sterile)
 ✓18928. *Rubus floribundus* H. B. K.
 ✓19024. *Saurauja excelsa* Willd. (Comp. at Kew)
 ✓19033. *Rynchospora macrochaeta* Steud. (Det. Gross)
 ✓19094. *Buddleia spicata* R. & P.
 ✓19103. *Saurauja humboldtiana* Busc. (Comp. at Kew by A. C. Smith)
 ✓19110. *Solanum quinquangulare* W.
 ✓19158. *Carludovica moritziana* Kl. (Comp. at Brit. Mus.)
 ✓19208. *Solanum scorpoideum* Rusby
 ✓19223. *Mauria ovalifolia* Turcz.
 ✓19267. *Aphelandra runcinata* Kl.
 ✓19319. *Saurauja ursina* Tr. & Pl. (Comp. at Paris by A. C. Smith)
 ✓19322. *Ptychomeria suaveolens* (Karst.) Schlecht.
 ✓19369. *Carludovica utilis* (Oerst.) B. & H.
 ✓19399. *Triumfetta grandiflora* Vahl
 ✓19421. *Mauria ovalifolia* Turcz.
 ✓19427. *Euphorbia insulana* Vell. (Comp. at Berlin)
 ✓19480. *Saurauja humboldtiana* Busc. (Comp. at Kew by A. C. Smith)
 ✓19503. *Buddleia spicata* R. & P.
 ✓19513. *Mauria ovalifolia* Turcz.
 ✓19572. *Buddleia bullata* R. & P. (Corr.)
 ✓19577. *Rubus acanthophyllus* Focke
 ✓19584. *Arenaria serpens* H. B. K.
 ✓19595. *Rubus bogotensis eglandulos^uis* Killip (type)
 ✓19611. *Urtica ballotaeifolia* Wedd.

Killip-Smith

- ✓19675. *Urtica urens* L.
- ✓19677. " *ballotaefolia* Wedd.
- ✓19682. *Solanum scorpoideum* Rusby
- ✓19740. *Hesperomeles obtusifolia* Lindl.
- ✓19759. *Hesperomeles glabrata* (H. B. K.) Koem.
- ✓19769. *Croton pungens* Jacq.?
- ✓19776. *Mauria ovalifolia* Turcz. (Approaching *M. heterophylla*; comp. at Berlin)
- ✓19787. *Prunus capuli* Cav.
- ✓19788. *Hesperomeles obtusifolia* Lindl.
- ✓19790. *Antidaphne colombiana* Killip
- ✓19899. *Gaiadendron tagua* (H. B. K.) G. Don
- ✓19904. *Rubus bogotensis* H. B. K.
- ✓19987. *Rubus glaucus* Benth.
- ✓20034. *Hillieria latifolia* (Lam.) H. Walt.
- 20073. *Rubus floribundus* H. B. K.
- ✓20480. " " " (Comp. with type in Humboldt Herb., Paris)
- ✓20521. " " " "
- ✓20559. *Mauria puberula* Trel.
- ✓20580. *Antidaphne colombiana* Killip
- ✓20586. *Rubus bogotensis* H. B. K.
- ✓20594. *Brunellia propinqua* H. B. K. (Comp. with type at Paris)
- ✓20618. *Begonia ferruginea* H. B. K.
- ✓20654. *Arenaria muscifformis* Tr. & Pl. (Comp. at Paris)
- ✓20898. *Paullinia fuscescens* H. B. K.
- ✓20905. *Buddleia spicata* H. & P.
- ✓20929. *Spirochaeta funckii* Turcz.
- ✓20931. *Aphelandra pulcherrima* (Jacq.) H. B. K.
- ✓21024. *Urvillea ulmacea* H. B. K.

Killip-Smith (Colombia)

- ✓14370. *Mesechites trifida* (Jacq.) Muell. Arg.
- ✓14619. *Cryptostegia grandiflora* (Roxb.) R. Br.
- *Tabernaemontana psychotriaefolia* H.B.K.
- ✓14653.
- ✓14678. *Anechites lappulacea* (Lam.) Miers
- ✓14980. *Mandevilla subsagittata* (R. & P.) Woodson
- ✓15315. *Rauwolfia moricandii* A. DC.
- ✓15392. " " "
- ✓15469. *Mandevilla mollissima fendleri* (Muell.Arg.) Woodson
- ✓16161. " " "
- ✓17054. " " "
- ✓18012. " " "
- ✓20533. *Marsdenia* (fruit only)
- ✓20748. *Exolobus marmoreus* Woodson (type)

Killip & Smith 14493 ✓ *H. suaveolens* Poit.

- 14583 ✓ *H. brevipes* Poit.
- 14858 ✓ *H. atrorubens* Poit. Det. by C. Epling
- ✓15007. *H. brachiata* Briq.
- ✓15386. *H. atrorubens* Poit.
- ✓19458. *H. columbiana* Epl.

Killip & Smith, Colombia.

Cyperaceae, Mimosaceae, and Caesalpiniaceae by Britton & Killip; Espeletia, Ericaceae, and Vacciniaceae by A. C. Smith; Verbenaceae by H. N. Moldenke.

U. S. National Museum, September 1933.

- 14291. *Trithrinia mauritia* Karst. (correction by Burret)
- ✓14487. *Bumelia panamensis* Standl. (det. Killip)
- ✓14496. *Cyperus glabulosus* Aubl. (correction)
- ✓14782. *Chamaefistula fluviatilis* Britton & Killip (type; correction)
- ✓14792. *Rynchospora corymbosa* (L.) Britton (det. Gross)
- ✓15175. *Fimbristylis complanata* (Retz) Link (correction)
- ✓15405. *Chamaefistula macrophylla* (Kunth) G. Don? (no flowers)
- ✓15413. *Lantana fucata* Lindl.
- ✓15475. " *camara mista* (L.) Bailey
- ✓15535. *Cyperus hermaphroditus* (Jacq.) Standl.
- ✓15684. *Espeletia funkii* Sch. Bip.
- ✓15945. *Disterigma elassanthum* Blake
- ✓16101. *Adipera santanderensis* Britton
- ✓16373. *Cyperus densus* Link (correction)
- ✓16399. *Lantana canescens* H. B. K.
- ✓16863. *Cyperus hermaphroditus* (Jacq.) Standl.
- ✓16886. *Adipera santanderensis* Britton
- ✓17340. *Verbena brasiliensis* Vell.
- ✓17422. *Espeletia santanderensis* A. C. Smith (type)
- ✓17560. " *conglomerata* A. C. Smith
- ✓17587. " *santanderensis* A. C. Smith
- ✓17603. " " "
- ✓17612. *Gaultheria santanderensis* A. C. Smith
- ✓17622. *Espeletia santanderensis* A. C. Smith
- ✓17667. " " "
- ✓18206. " *funkii* Sch. Bip.
- ✓18397. *Adipera santanderensis* Britton
- ✓18425. *Espeletia funkii* Sch. Bip.
- ✓18414. *Disterigma empetrifolium* (H. B. K.) Drude
- ✓18422. *Azorella multifida* (R. & P.) Pers. (det. Mathias)
- ✓18453. *Gaultheria santanderensis* A. C. Smith
- ✓18601. *Pernettya pentlandii parvifolia* (Benth.) Wedd.
- ✓18425. *Espeletia funkii* Sch. Bip.
- ✓18619. " " " "
- ✓18624. " *canescens* A. C. Smith (type)
- ✓18635. " *conglomerata* A. C. Smith (type)
- ✓18685. *Disterigma empetrifolium* (H. B. K.) Drude
- ✓19064. *Enserolobium cyclocarpum* (Jacq.) Griseb.
- ✓19067. *Petrasa bracteata* Steud.
- ✓19224. *Adipera santanderensis* Britton
- ✓19447. *Chamaefistula bacillaris* (L. f.) G. Don (correction)
- ✓19518. *Adipera santanderensis* Britton
- ✓19552. *Espeletia santanderensis* A. C. Smith

Killip & Smith, Colombia-2

- ✓19558. *Espeletia standleyana* A. C. Smith (type)
- ✓19616. *Gaultheria santanderensis* A. C. Smith
- ✓20135. *Inga punctata* Willd. (correction)
- ✓20163. *Anthurium scandens* (Aubl.) Engl. (det. Krause)
- ✓20348. *Cyperus hermaphroditus* (Jacq.) Standl.
- ✓20495. *Adipera santanderensis* Britton
- ✓20502. *Lantana fucata* Lindl.
- ✓20505. *Inga punctata* Willd. (correction)
- ✓20611. *Espeletia canescens* A. C. Smith
- ✓20841. *Cyperus cayennensis* (Lam.) Britton
- ✓20930. *Cyperus densus* Link (correction)
- ✓20937. *Brownea arcensis* Pittier
- ✓21042. *Pithecellobium unguis-cati* (L.) Mart.
- ✓21059. *Lantana rugulosa* H. B. K.
- ✓21065. *Lantana purpurea* Hornem.?
- ✓21091. *Vitex cymosa* Bert.
- ✓21099. " " "

Killip-Smith, Colombia.

Acanthaceae determined by E. C. Leonard; Malpighiaceae by C. V. Morton; Vismia, Clusia, and Ternstroemia by A. C. Smith; others by W. P. Killip unless otherwise noted.

S. National Museum, December 1934.

- ✓14133. Galactia striata (Jacq.) Urban
- ✓14163. Cestrum latifolium Lam. (Det. Morton)
- ✓14165. " " " "
- ✓14182. Benthameantha caribaea (Jacq.) Kuntze, var.
- ✓14212. Ruellia obtusa Nees
- ✓14250. Desmodium canum (Gmel.) Schinz & Thell.
- ✓14257. Erythrina rubrinervia H.B.K. ? (no flowers)
- ✓14304. Monstera dilacerata C. Koch
- ✓14285. Bunchosia glauca H.B.K.
- ✓14325. Banisteriopsis argentea (H.B.K.) C. B. Rob.
- ✓14515. Cestrum latifolium Lam. (Det. Morton)
- ✓14521. Galactia striata (Jacq.) Urban
- ✓14561. Benthameantha caribaea (Jacq.) Kuntze, var.
- ✓14591. Pistia stratiotes L. (Det. A. C. Smith) *not found in garden '29 35'*
- ✓14641. Desmodium scorpiurus (Sw.) Desv.?
- ✓14689. Bunchosia glauca H.B.K.
- ✓14712. Benthameantha caribaea (Jacq.) Kuntze, var.
- ✓14735. Calathea lutea (Aubl.) Wey.
- ✓14761. Tetracera sessiliflora Tr. & Pl.
- ✓14763. Renealmia cernua (Sw.) Macbr. (R. strobilifera P. & E.)
- ✓14827. Desmodium adsensens (Sw.) DC. (correction)
- ✓14852, 14890. Vismia lauriformis (Lam.) Choisy
- ✓14892. Cecropia goudotiana Tréc? (immature)
- ✓14931. Costus villosissimus Jacq.? (U. S. Specimen poor)
- ✓14988. Phoradendron piperoides (H.B.K.) Trel.
- ✓15010. Cecropia scabrifolia A. Richter (det. Mildbraed)
- ✓15099. Clusia multiflora H.B.K.
- ✓15225. Eurya (Freziera) danraii (Urb.) Melch. vel aff. (det. Melchior)
- ✓15354. Clusia rosea L.
- ✓15389. Stromanthe tonkat (Aubl.) Eichl.
- ✓15400. Desmodium intortum (Mill.) Fawc. & Rendle
- ✓15430, 20055, 20123. Clusia eugenioides Pl. & Lind.
- ✓15451. Sterculia apetala (Jacq.) Karst.?
- ✓15469, 16161, 17054, 18012. Mandevilla fendleri (M. A.) Woods. (Rather than var. of mollissima)
- ✓15510. Erythrina rubrinervia H.B.K.
- ✓15521. Dolichos lablab L.
- ✓15866. ~~Stromanthe~~ Stroemia clusiaeifolia H.B.K.
- ✓15872. Dendrophthora lindeniana V. Tiegh
- ✓16016, 19753, 19893. Sisyrinchium bogotense H.B.K.
- ✓16121. Perrottetia quindimensis H.B.K.
- ✓16181. Mandevilla scabra (R. & S.) K. Sch. (not M. mollissima scabra) cited by Woodson
- ✓16253. Dioclea guianensis Benth.
- ✓16301. Chaetocalyx hebecarpa Benth.
- ✓16330. Arrabidaea magnifica Sprague

Killip-Smith, Colombia-5

- ✓16346. *Oxypetalum cordifolium* (Vent.) Schltr.
 ✓16367. *Benthamaantha caribaea* (Jacq.) Kuntze, var.
 ✓16396. *Phoradendron killipii* Trel.
 ✓16420. *Clusia rosea* L.
 ✓16479. *Phaseolus adenanthus* Mey.
 ✓16622. *Erythrina rubrinervia* H.B.K.
 ✓16768. *Panopsis suaveolens* (Kl.) Pittier
 ✓16827. *Phaseolus adenanthus* Mey.
 ✓16868. *Desmodium intortum* (Mill.) Fawc. & Rendle
 ✓16968. *Carex polystachya* Wahl. (Det. Mackenzie)
 ✓17002. *Phoradendron suratanum* Trel.
 ✓17061. *Desmodium campyloclados* Hemsl.
 ✓17063. *Anthurium nitidum* Kunth
 ✓17065. " *deflexum* Engl.
 ✓17104. 17122. *Phytolacca rugosa* A. Br. & Bouché (Det. P. Wilson)
 ✓17377. *Phoradendron sanguineum* Trel. (type)
 ✓17643. *Lobelia gryllorum* Wimmer?
 ✓17783. *Dendrophthora lindeniana* V. Tiegh
 ✓17886. *Daphnopsis purdiei* Meissn.
 ✓18055. *Brunellia funckiana* Tul.
 ✓18196. 19751, 20532. *Clusia multiflora* H.B.K.
 ✓18221. *Dendrophthora clavata* (Benth.) Urb.
 ✓18293. *Perrottetia quindiuensis* H.B.K.
 ✓18295. *Clusia alata* Pl. & Tr.
 ✓18369. *Anthurium deflexum* Engl.
 ✓18676. *Carex jamesonii* Boott (Det. Mackenzie)
 ✓18736. *Clusia alata* Pl. & Tr.
 ✓18902. *Ternstroemia clusiaefolia* H.B.K.
 ✓18903. *Clusia ducu* var. *schlimiana* Pl. & Lind.
 ✓19019. *Tetrapteris anomala* Morton (type)
 ✓19065. *Rheedia madruno* Pl. & Tr.
 ✓19233. *Phaseolus erythroloma* Mart. (correction)
 ✓19256. 20152, 20276. *Perrottetia quindiuensis* H.B.K.
 ✓19359. *Ruellia tetrastichantha* Lindau
 ✓19387. *Dioclea densiflora* Huber
 ✓19394. *Oxypetalum cordifolium* (Vent.) Schltr.
 ✓19481. *Haliocarpus popayanensis* H.B.K.
 ✓19838. *Papaver somniferum* L. (form)
 ✓19816. *Oxypetalum cordifolium* (Vent.) Schltr.
 ✓19888. *Psoralea mexicana* (L. f.) Vail
 ✓19896. *Sisyrinchium convolutum* Mosca
 ✓20037. *Vismia dealbata* H.B.K.
 ✓20360. *Gynandropsis coccinea* Benth. (not Cleome)
 ✓20483. *Phoradendron piperoides* (H.B.K.) Trel.
 ✓20520. *Miconia lindenii* Naud. (Det. Gleason)
 ✓20832. *Dioclea guianensis* Benth.
 ✓20857. *Dolichos labiata* L.
 ✓20862. *Machaerium moritzianum* Benth.
 ✓20874. *Machaerium subacutum* Killip (type)
 ✓20897. *Hippocratea aspera* Lam.
 ✓21066. *Erythrina velutina* Willd.
 ✓21085. *Phoradendron degenianum* Trel.
 ✓21087. *Banisteriopsis heterostyla* (Juss.) Morton (not B. jasminellum)
 ✓21174. *Clusia alata* Pl. & Tr.

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KILLIP - SMITH, COLOMBIA

U. S. National Museum February 19, 1934.

(Flacourtiaceae by Sleumer; Crassulaceae by Walther; Piperaceae by Trelease; others by E. F. Killip, unless otherwise indicated. Note: This holds for other identifications now reported.)

- ~~14399.~~ Xylosma prunifolium (H.B.K.) Tr. & Pl.
- ✓14482. Senegalia turbacensis B. & K. (type)
- ✓14784. Casearia arguta H.B.K.
- ✓14902. Dichromena parvula B. & K. (type; rather than D. pubera)
- ✓14923. Inga smithii B. & K. (type; reported as 14293 E. earlier)
- ✓15030. Casearia arguta H.B.K.
- ✓15500. Dichondra repens Forst.
- ✓15560. Sibthorpia repens (L.)
- ✓17245. Echeveria bicolor (H.B.K.) Walth.
- ✓17399. Echeveria bicolor (H.B.K.) Walth.
- ✓17754. Sibthorpia repens (L.)
- ✓16162. Peperomia albert-smithii Trel. (type)
- ✓16354. Peperomia pereskiaefolia bucaranangana Trel.
- ✓16257. Casearia arguta H.B.K.
- ✓16915. Crassula multicava Lam.
- ✓16955. Citharexylum montanum Moldenke (type)
- ✓18120. Peperomia rivuligaudens Trel. (type)
- ✓18219. Hydrocotyle bomplandii Rich.
- ✓18519. Sibthorpia ? (not Hydrocotyle bomplandii)
- ✓19166. Peperomia adscendens C. DC. Trel.
- ✓19521. Echeveria bicolor (H.B.K.) Walth.
- ✓19786. Xylosma spiculiferum (Tul.) Tr.
- ✓20012. Miconia mesmeana Gleason (type)
- ✓20102. Peperomia undulatifolia Trel. (type)
- ✓20128. Phoradendron piperoides Trel.
- ✓20145. Xylosma rubicundum (Karst.) Gilg.
- ✓20667. Sibthorpia repens (L.)
- 21679. Citharexylum flexuosum var. subglabrum Moldenke (type)
- 22216. Muhlenbergia peruviana (Beauv.) Steud. (not Aristida capillacea).
Mixed with this at U.S.N.M. is Paspalum pygmaeum Hook. (2216a.)
- 22270. Peperomia carducifolia Trel. (type)
- 22553. Heliconia lingulata R. & P. (det. Griggs)
- 30235. Solanum subinerme Jacq. (det. C.V. Morton)
- 30284. " " " " "
- 30359. " " " " "
- 30381. " platyphyllum H.B.K. (det. C.V. Morton)
- 30405. " subinerme Jacq. " "

Current South American Collections.

(Determinations by E. P. Killip, unless otherwise noted)

Reported by U. S. National Museum, August 1936.

Killip & Smith, Colombia

- ✓14053. *Beurreria exarata* Jacq.
-✓14091. *Desmodium distortum* (Aubl.) Macbr.
o✓14471. " *canum* (Swal.) Schinz & Thell.
-✓14224. *Buettneria aculeata* Jacq. (form)
-✓14631. *Calycophyllum candidissimum* (Vahl) DC. (det. P. C. Standley)
-✓14903. *Cleome glabra* Tumb. (Compared at Paris)
§✓14971. *Aegiphila laeta* H.B.K. (corr. by Moldenke)
"✓15001. *Befaria hispida* P. & R.
-✓15553. *Monopyle leucantha* Moritz (det. Morton)
" 15620. Mixture of *Alchemilla killipii* Rothm. (type),
A. *sphaenoides* Mutis, and *A. vulcanica* C. & S.
"✓15945. *Panopsis polystachya* (H.B.K.) Kuntze
o 15947. *Disterigma classanthum* (reported in error as 15945)
-✓16600. *Machaerium floribundum* Benth.
-✓17098. *Monopyle leucantha* Moritz (det. Morton)
§✓17331. *Scheveria columbiana* Poell. type Not *E. bicolor*.
"✓17399. *Scheveria columbiana* Poell. Not *E. bicolor*.
✓17816. *Aplopappus lehmannii* var. *subcalvus* Blake (type)
§✓17949. *Disterigma capetrifolium* (H.B.K.) Drude (det. A. C. Smith)
✓18438. *Alchemilla holmgrenii* Rothm. (not *A. muriei*; det. Rothmaler)
✓19042. *Marcgravia rectiflora* Tr. & Pl. (Compared with type at Paris;
most specimens referred here are *M. brownii* (Tr. & Pl.) Krug. & Urb.)
o✓19273. *Monopyle leucantha* Moritz (det. Morton)
2419741 ✓17941. *Dendrophthora clavata* (Benth.) Urb. (Compared with type at Kew)
2. ✓20074. *Centropogon tenuifolius* Wimmer (type)

Killip & Smith, Colombia

Reported May 19, 1938

(Det. E.P.Killip, unless otherwise noted)

- ✓14104. *Citrullus vulgaris* Schrad. (Det. Harms)
- ✓14128. *Sida acuta* Burm.
- ✓14144. *Portulaca mucronata* Link
- ✓14175. *Anoda cristata* (L.) Schl.
- ✓14281. *Juffa cylindrica* (L.) Roem.
- ✓14499. *Wissadula amplissima* (L.) Fries
- ✓14550. *Malacra alceifolia* Jacq.
- ✓14582. *Anemopaegma retusum* Sprague
- ✓14603. *Melothria guadalupensis* (Spreng.) Urb.
- ✓14714. *Koeleria sagittata* Presl
- ✓14842. *Hypolytrum sylvaticum* Poepp. & Kunth
- ✓14939. *Trichilia* aff. *T. flava* C. DC. (Det. Harms)
- ✓15097. *Calea* var. *hirtella* Blake (type)
- ✓15366. *Steiractinia lucidula* Blake (type)
- ✓15458. *Psidium cattleianum* Sabine
- ✓15486. *Saracha procumbens* (Cav.) R. & P. (Det. Morton)
- ✓15544. *Saracha nitida* Bitt. (Det. Morton)
- ✓16124. *Ichthyothere grandifolia* Blake (type)
- ✓16265. *Davilla lacunosa* Mart.? (Det. Sleumer)
- ✓16649. *Aniba puchury-minor* (Mart.) Mez (Det. Kostermans)
- ✓16757. *Malvastrum peruvianum* (L.) Gray
- ✓16860. *Cuphea serpyllifolia* H.B.K.
- ✓16869. *Malvastrum peruvianum* (L.) Gray
- ✓17358. *Ranunculus flagelliformis* Sm. (already reported?)
- ✓17426. *Eugenia ternifolia* Berg
- ✓17574. *Poa cucullata* Hack. (not *P. parsonsii*; corr. by Swallen)
- ✓17816. *Aplopappus lehmannii* var. *subcalvus* Blake (type)
- ✓18181. *Ranunculus*
- ✓18230. *Calea acoma* Blake (Det. Blake)
- ✓18440. *Diplostegium glutinosum* Blake (type)
- ✓18866. *Calea subcordata* Blake (Det. Blake)
- ✓18898. *Calea subcordata* Blake (Det. Blake)
- ✓18936. *Utricularia obtusa* Sw.
- ✓19486. *Malvastrum peruvianum* (L.) Gray
- ✓19571. *Diplostegium apiculatum* Blake (type)
- ✓19633. *Eugenia triquetra* Berg
- ✓19637. *Calea acoma* Blake (Det. Blake)
- ✓19808. *Calea subcordata* Blake (Det. Blake)
- ✓19882. *Eugenia mariquitensis* Berg
- ✓19898. *Alouea dubia* (H.B.K.) Mez (aff.) (Det. Kostermans)
- ✓20152. *Perrottetia quindimensis* H.B.K.
- ✓20276. " " "
- ✓20721. *Calea acoma* Blake (Det. Blake)
- ✓21061. *Conocarpus erecta* L.
- ✓21084. *Casearia tremula* (Griseb.) Wright
- ✓21173. *Aragoa lycopodioides* Benth.
- ✓21200. Bombax? (specimen too fragmentary)
- ✓23753. *Saracha procumbens* (Cav.) R. & P. (Det. Morton)

Killip & Smith - Colombia
Det. E. P. Killip unless otherwise noted
(Reported by U.S.N.M., April 1942)

- X 14328. *Calomystion aculeatum* (L.) House
- 14532. *Bonania ferruginea* (Karst. & Tr.) B. & H.
- 14656. *Anthurium crassinervium* (Jacq.) Schott
- 15392. *Rauwolfia sanctorum* Woodson (type; reported as *R. moricandii*)
- 16298. *Anthurium maximum* (Desf.) Engl.
- 16565. " *demudatum* Engl.
- 16588. *Caladium*
- 17064. *Anthurium multinervium* Engl.
- 17897. *Maytenus blepharodes* Lundell (type)
- X 18240. *Diplostegium apiculatum* Blake (Det. Blake)
- 18346. *Anthurium nitidum* Benth.
- X 18536. *Plagiocheilus solivaeformis* DC. (ex char.; det. Blake)
- X 18579. *Cotula minuta* (L. f.) ~~Swet~~ Det. Blake
- X 18646. *Gentiana nevadensis* Gilg
- 18762, 19978. *Anthurium magnificum* Linden
- X 19548. *Ranunculus mandonlanus* Wedd.
- = 20193, 20380 (type), 21224. *Styrax pseudargyrophyllus* Gleumer (not *S. micrasterus*)
- 20456. *Anthurium funiferum* Kl.
- X 20917. *Ipomoea tiliacea* (Willd.) Chois
- 21162. *Septoria didyma* Fkl. Det. Stevenson
- X 21208. *Olea europaea* L.

Comp.
" "

dets. entered
file

Jan. 1952

Killip & Smith, Colombia
Det. J. Cuatrecasas

- ✓ 15398 Senecio ellsworthii Cuatr.
- 15651 " viridi-albus Cuatr.
- ✓ 15655 " elatoides Wedd.
- 15688 Gynoxys subcinerea Cuatr.
- ✓ 15867 Ilex velutinulosa Cuatr. (type)
- ✓ 17228 Gynoxys subcinerea Cuatr.
- ✓ 17244 " " "
- ✓ 17463 Senecio novolanatus Cuatr.
- ✓ 17505 " " " (type)
- ✓ 17520 " alberto-smithii Cuatr. (type)
- ✓ 17577 Gynoxys subcinerea Cuatr.
- ✓ 17610 " " "
- ✓ 17728 Senecio aff. trianai
- 17961 " elatoides Wedd. (not S. aciculatus)
- 18051 " theaeifolius f. setulosus (Klatt) Cuatr.
- ✓ 18089 " pseudoformosus Cuatr.
- ✓ 18104 " " "
- 18204 Gynoxys subcinerea Cuatr.
- 18241 Senecio vaccinioides (H.B.K.) Sch. Bip.
- ✓ 18602 x " " x S. novolanatus (hyb.)
- 18605 Gynoxys subcinerea Cuatr.
- ✓ 18618 Senecio elatoides Wedd.
- ✓ 18955 " bejuocosus Cuatr. (form)
- ✓ 19002 " pennellii Greenm. (form)
- ✓ 19413 " ellsworthii Cuatr.
- ✓ 19576 Gynoxys subcinerea Cuatr.
- ✓ 19619 Senecio pulchellus (H.B.K.) DC. (form)
- ✓ 19695 " xanthopappus Klatt
- ✓ 19710 " pulchellus (H.B.K.) DC. (form)
- ✓ 19872 " haticoensis Cuatr. (not S. ellipticifolius)
- ✓ 19908 " pennellii var. gachetensis Greenm.
- ✓ 20381 " bejuocosus Cuatr. (form)
- ✓ 20488 " haticoensis Cuatr. (not S. ellipticifolius)
- 20581 " " " " " "
- ✓ 20601 " aff. pennellii Greenm.
- ✓ 20735 " haticoensis Cuatr. (type)

KILLIP & SMITH COLLECTION

All identifications by H. A. Gleason, unless otherwise stated.

- ✓14011 *Laguncularia racemosa* (L.) Gaertn. ✓14349 *Melicocca bijuga* L.
- ✓14012 *Conocarpus erecta* L. ✓14354 *Hedychium coronarium* Konig
- ✓14014 *Beureria cumanensis* (Loefl.)
O. E. Schulz. (det. N.L.B.) ✓14355 *Dorstenia contrajerva* L.
- ✓14024 *Thespesia populnea* (L.) Soland. ✓14363 *Bihai Bihai* (L.) Griggs
- ✓14025 *Ricinus communis* L. ✓14376 *Boussingaultia leptostachys* Moq.
(det. P.Wilson)
- ✓14029 *Capraria biflora* L. ✓14400 *Serjania grandidens* Radlk.
- ✓14035 *Bouchea prismatica* (L.) Kuntze
(det. P. Wilson) ✓14450 *Trianthema portulacastrum* L.
(det. P.Wilson)
- ✓14036 *Tribulus cistoides* L. ✓14506 *Banisteriopsis cornifolia*
(HBK) C.B.Rob.
- ✓14039 *Kallstroemia maxima* (L.) T. & G. ✓14544 *Vernonia gracilis* HBK.
- ✓14054 *Rivina humilis* L. (det. P.Wilson) ✓14546 *Spiracantha cornifolia* HBK.
- ✓14067 *Stylosanthes humilis* HBK. ✓14559 *Aeschynomene americana* L.
- ✓14083 *Malpighia glabra* L. ✓14574 *Aeschynomene sensitiva* Sw.
- ✓14092 *Coccolobis uvifera* (L.) Jacq. ✓14575 *Piaropus azureus* (Sw.) Raf.
- ✓14139 *Aeschynomene fascicularis* C. & S. ✓14576 *Pacourina edulis* Aubl.
- ✓14156 *Portulaca halimoides* L.
(det. P. Wilson) ✓14592 *Piaropus crassipes* (Mart.) Britton
- ✓14157 *Portulaca oleracea* L. (det. P. Wilson) ✓14598 " " " "
- ✓14183 *Rivina humilis* L. (det. P.Wilson) ✓14610 *Bradburya Plumieri* (Turp.) Kuntze
- ✓14188 *Aeschynomene americana* L. ✓14662 " " " "
- ✓14204 *Aeschynomene fascicularis* C.&S. ✓14665 *Vernonia gracilis* HBK
- ✓14226 *Machaerium glabratum* Pittier ✓14669 *Tetrapteryx papyracea* Tr. & Pl.
- ✓14247 *Cardiospermum grandiflorum* Sw. ✓14722 *Bradburya virginiana* (L.) Kuntze
- ✓14248 *Serjania grandidens* Radlk. ✓14787 *Thalia geniculata* L.
- ✓14265 *Mucuna Sloanei* Fawc. & Rendle ✓14828 *Zornia diphylla* (L.) Pers.
- ✓14274 *Aeschynomene fascicularis* C.& S. ✓14834 *Aciotis purpurascens* (Aubl.) Triana
- ✓14287 *Potomorphe peltata* (L.) Miq. ✓14846 *Miconia nervosa* (Sw.) Triana
- ✓14297 *Dorstenia contrajerva* L. ✓14847 *Ischnosiphon aruma* (Aubl.) Koern.
- ✓14331 *Cardiospermum grandiflorum* Sw. ✓14856 *Renealmia occidentalis* (Sw.) Sweet
- ✓14346 *Fleurya aestuans* (L.) Gaud. ✓14860 *Elephantopus mollis* HBK.

- ✓14870 *Miconia oinochrophylla* Donn.Sm.
- ✓14886 *Cajan cajan* (L.) Millsp.
- ✓14891 *Calopogonium mucunoides* Desv.
- ✓14916 *Tonina fluviatilis* Aubl.
- ✓14921 *Clidemia dependens* D.Don
- ✓14925 *Aciotis purpurascens* (Aubl.) Triana
- ✓14933 *Calopogonium coeruleum* (Benth.) Hemsl.
- ✓14956 *Stigmaphyllon Humboldtianum* A.Juss.
- ✓14991 *Banisteriopsis argentea* (HBK) C.B.Rob.
- ✓15003 *Siphocampylus longibracteolatus* Wimmer
- ✓15008 *Miconia rufescens* (Aubl.) DC.
- ✓15017 *Siphocampylus longibracteolatus* Wimmer
- ✓15018 *Ernestia quadrisetosa* O.Berg
- ✓15019 *Siphocampylus longibracteolatus* Wimmer
- ✓15028 *Miconia stenostachya* (Schr. & Mart.) DC.
- ✓15046 *Tibouchina Lindeniana* Cogn.
- ✓15048 *Siphocampylus longibracteolatus* Wimmer
- ✓15062 *Miconia ibaguensis* (Bonpl.) Triana
- ✓15063 *Tibouchina Lindeniana* Cogn.
- ✓15073 *Miconia dodecandra* (Desr.) Cogn.
- ✓15081 *Miconia stenostachya* DC.
- ✓15082 *Heterotrichum glandulosum* Cogn.
- ✓15086 *Clidemia impetiolearis* (Naud.) Cogn.
- ✓15101 *Pterogastra major* Triana
- ✓15107 *Tibouchina Lindeniana* Cogn.
- ✓15164 *Ernestia tenella* (Bonpl.) DC.
- ✓15197 *Miconia prasina* (Sw.) DC.
- ✓15216 *Pterogastra major* Triana
- ✓15233 *Tibouchina gracilis* (Bonpl.) Cogn.
- ✓15273 *Miconia theaezans* (Bonpl.) Cogn.
- ✓15279 *Pterogastra major* Triana
- ✓15284 *Meriania longifolia* (Naud.) Cogn.
- ✓15303 *Acisanthera recurva* (L.C.Rich.) Griseb.
- ✓15313 *Byrsonima verbascifolia* (L.) DC.
- ✓15377 *Elephantopus mollis* HBK.
- ✓15409 *Vernonia scorpioides* (Lam.) Pers.
- ✓15411 *Miconia albicans* (Sw.) Triana
- ✓15427 *Miconia minutiflora* (Bonpl.) DC.
- ✓15442 *Vernonia scorpioides* (Lam.) Pers.
- ✓15444 *Vernonia patens* HBK.
- ✓15481 *Miconia theaezans* (Bonpl.) Cogn.
- ✓15507 *Vernonia canescens* HBK.
- ✓15579 *Siphocampylus Schlimmianus* Planch.
- ✓15602 *Purpurella grossa* (L.) Triana
- ✓15666 *Castratella pilosellédes* (Bonpl.) Naud.
- ✓15690 *Miconia reclinata* (Bonpl.) Naud.
- ✓15698 *Chaetolepis Lindeniana* (Naud.) Triana
- ✓15731 *Miconia selicifolia* (Bonpl.) Naud.
- ✓15741 *Monochaetum myrtoideum* (Bonpl.) Naud.
- ✓15801 *Chaetolepis Lindeniana* (Naud.) Triana
- ✓15993 *Miconia pedicellata* Cogn.
- ✓16084 " " "
- ✓16182 *Vernonia patens* HBK.
- ✓16190 *Machaerium copote* Triana
- ✓16196 *Vernonia canescens* HBK.
- ✓16239 *Mascagnia nervosa* Ndz.
- ✓16248 *Miconia rubiginosa* (Bonpl.) DC.
- ✓16250 *Byrsonima crassifolia* (L.) DC.
- ✓16318 *Machaerium glabratum* Pittier

- ✓16325 Stigmaphyllon Humboldtianum A.Juss.
- ✓16337 Aeschynomene paniculata Willd.
- ✓16387 Vernonia canescens HBK.
- ✓16430 Tibouchina Lindeniana Cogn.
- ✓16443 Centropogon cornutus (L.) Druce
- ✓16451 Typha angustifolia L.
- ✓16504 " " "
- ✓16523 Vernonia canescens HBK.
- ✓16544 Miconia theaezans (Bonpl.) Cogn.
- ✓16553 Vernonia canescens HBK.
- ✓16609 " " "
- ✓16729 Leandra subseriata (Naud.) Cogn.
- ✓16769 Chaetolepis microphylla (Bonpl.) Miq.
- ✓16875 Miconia theaezans (Bonpl.) Cogn.
- ✓16894 Siphocampylus elegans Planch.
- ✓16908 Monochaetum myrtoideum (Bonpl.) Naud.
- ✓16928 Siphocampylus elegans Planch.
- ✓16945 " Schlimmianus Planch.
- ✓16987 Leandra subseriata (Naud.) Cogn.
- ✓16995 Siphocampylus elegans Planch.
- ✓17034 Tibouchina longifolia (Vahl) Baill.
- ✓17118 Chaetolepis microphylla (Bonpl.) Miq.
- ✓17144 Siphocampylus elegans Planch.
- ✓17185 " " "
- ✓17202 " Schlimmianus Planch.
- ✓17208 " elegans Planch.
- ✓17229 Chaetolepis Lindeniana (Naud.) Triana
- ✓17312 Monochaetum myrtoideum (Bonpl.) Naud.
- ✓17448 Tibouchiana Lindeniana Cogn.
- ✓17453 Leandra subseriata (Naud.) Cogn.
- ✓17559 Miconia salicifolia (Bonpl.) Naud.
- ✓17589 Chaetolepis alpina Naud.
- ✓17638 Miconia reclinata (Bonpl.) Naud.
- ✓17640 " salicifolia (Bonpl.) Naud.
- ✓17651 Chaetolepis Lindeniana (Naud.) Triana
- ✓17666 " " " "
- ✓17726 Miconia reclinata (Bonpl.) Naud.
- ✓17770 Purpurella grossa (L.) Triana
- ✓17824 Axinaea floribunda (Naud.) Triana
- ✓17834 " " " "
- ✓17876 Siphocampylus Funckeanus Planch.
- ✓18052 Monoch aetum myrtoideum (Bonpl.) Triana
- ✓18103 Siphocampylus Schlimmianus Planch.
- ✓18142 " elegans Planch.
- ✓18173 Purpurella grossa (L.) Triana
- ✓18186 Miconia reclinata (Bonpl.) Naud.
- ✓18189 Chaetolepis Lindeniana (Naud.) Triana
- ✓18214 " alpina Naud.
- ✓18227 " " "
- ✓18265 Monochaetum myrtoideum (Bonpl.) Naud.
- ✓18285 Siphocampylus elegans Planch.
- ✓18396 Vernonia canescens HBK.
- ✓18403 Chaetolepis Lindeniana (Naud.) Triana
- ✓18423 Miconia salicifolia (Bonpl.) Naud.
- ✓18434 Chaetolepis alpina Naud.
- ✓18441 Miconia reclinata (Bonpl.) Naud.
- ✓18464 " " " "
- ✓18467 Chaetolepis alpina Naud.
- ✓18533 Miconia reclinata (Bonpl.) Naud.
- ✓18537 Purpurella grossa (L.) Triana

- ✓185 65 Chaetolepis alpina Naud. O19991 Siphocampylus Funckeanus Planch.
- ✓18567 " Lindeniana (Naud.) Triana ✓19993 Centropogon affinis Mart. & Gal.
- ✓18641 Castratella piloselloides (Bonpl.) Naud. 20036 Stigmaphyllon Ruizianum Ndz.
- ✓18800 Centropogon affinis Mart. & Gal. ✓20043 Vernonia canescens HBK.
var. venezuelanus Wimmer
- ✓18809 Tibouchina lepidota (Bonpl.) Baill. ✓20054 Miconia theaezans (Bonpl.) Cogn.
- ✓18858 Leandra subseriata (Naud.) Cogn. ✓20060 Leandra Fendleri Cogn.
- ✓18876 Stigmaphyllon Ruizianum Ndz. ✓20072 Vernonia canescens HBK.
- ✓18881 Miconia theaezans (Bonpl.) Cogn. ✓20125 Miconia aeruginosa Naud.
- ✓18890 Tibouchina Lindeniana Cogn. ✓20142 Miconia theaezans (Bonpl.) Cogn.
- ✓18915 Leandra subseriata (Naud.) Cogn. ✓20149 Leandra subseriata (Naud.) Cogn.
- ✓19081 Miconia theaezans (Bonpl.) Cogn. ✓20194 Miconia floribunda (Bonpl.) DC.
- ✓19230 Leandra subseriata (Naud.) Cogn. ✓20346 Stigmaphyllon Ruizianum Ndz.
- ✓19240 Vernonia canescens HBK. ✓20362 Centropogon affinis Mart. & Gal.
var. venezuelanus Wimmer
- ✓19306 Miconia theaezans (Bonpl.) Cogn. ✓20394 Siphocampylus Schlimmianus Planch.
- ✓19350 Clidemia dependens D. Don ✓205 10 Vernonia canescens HBK.
- ✓19388 Vernonia canescens HBK. ✓20548 Stigmaphyllon Ruizianum Ndz.
- ✓19455 Leandra subseriata (Naud.) Cogn. ✓20574 Siphocampylus Schlimmianus Planch.
- ✓19532 Chaetolepis alpina Naud. ✓20593 Miconia longifolia (Aubl.) DC.
- ✓19589 Monochaetum myrtoideum (Bonpl.) Naud. ✓20653 Monochaetum myrtoideum (Bonpl.) Naud.
- ✓19596 Chaetolepis Lindeniana (Naud.) Triana ✓20782 Tibouchina longifolia (Vahl) Baill.
- ✓19711 Siphocampylus Funckeanus Planch. o20785 Arthrostemma volubile (Naud.) Triana
- ✓19714 Miconia ligustrina (Smith) Triana o20821 Vernonia canescens HBK.
- ✓19741 Phoradendron sp on Miconia ligustrina (Smith) Triana o20834 Miconia albicans (Sw.) Triana
- ✓19810 Stigmaphyllon Ruizianum Ndz. o20838 Clidemia dependens D. Don
- ✓19830 Centropogon affinis Mart. & Gal. ✓20864 Vernonia brasiliana (L.) Druce
var. venezuelanus Wimmer
- ✓19839 Siphocampylus Funckeanus Planch. ✓20888 Tetrapteryx papyracea Tr. & Pl.
- ✓19905 Miconia ligustrina (Smith) Triana o20918 Stigmaphyllon Humboldtianum A. Juss.
- ✓19921 Centropogon affinis Mart. & Gal. ✓20928 Vernonia scorpioides (Lam.) Pers.
- ✓19934 Siphocampylus Funckeanus Planch. ✓20990 Vernonia brasiliana (L.) Druce
- ✓19975 Centropogon affinis Mart. & Gal. ✓21087 Banisteriopsis Jasminellum (A. Juss.)
var. venezuelanus Wimmer

5
✓21095 *Stigmaphyllon Humboldtianum* A.Juss.

o✓21136 *Leandra Fendleri* Cogn.

✓21142 *Siphocampylus Funckeanus* Planch.

o✓21147 *Bucquetia glutinosa* (L.) DC.

o✓21184 *Acisanthera recurva* (L.C.Rich.) Griseb.

List submitted January 19, 1928

Gray

KILLIP & SMITH PLANTS DET. AT NEW YORK BOTANICAL GARDEN

✓14016	Canavalia fendleri Piper	PW	✓14307	Cissus sicyoides L.	PW
✓14017	Melochia tomentosa L.	PW	✓14313	Ocimum micranthum Willd.	PW
✓14034	Ipomoea nil (L.) Roth.	PW	✓14317	Coccinea cordifolia (L.) Cogn.	PW
✓14043	Priva lappulacea (L.) Pers.	PW	✓14318	Operculina dissecta (Jacq.) House	PW
✓14044	Guaiacum arboreum DC.	PW	✓14320	Buettneria carthaginensis Jacq.	PW
✓14046	Chamaesyce hirta L.	PW	✓14333	Stemmadenia grandiflora (Jacq.) Miers	PW
✓14048	Panicum trichioides Sw.	PW	✓14337	Croton niveus Jacq.	PW
✓14049	Hura crepitans L.	PW	✓14351	Achras zapota L.	PW
✓14057	Capraria biflora L.	PW	✓14359	Microtea debilis Sw.	PW
✓14059	Indigofera suffruticosa Mill.	PW	✓14365	Dalechampia scandens L.	PW
✓14062	Melochia tomentosa L.	PW	✓14371	Asclepias curassavica L.	PW
✓14070	Corchorus orinocensis HBK.	PW	✓14377	Sterculia apetala (Jacq.) Karst.	PW
✓14072	Crescentia cujete L.	PW	✓14379	Indigofera suffruticosa Mill.	PW
✓14075	Acalypha alopecuroides Jacq.	PW	✓14406	Dendropanax arboreum (L.) Dec. & Pl.	PW
✓14077	Petiveria alliacea L.	PW	✓14088	Abrus abrus (L.) W.F. Wight	PW
14085	Ainds ainds (L.) W.F. Wight	PW	✓14123	" " " "	PW
✓14094	Rhizophora mangle L.	PW	✓14123	Stizolobium pruratum (Wight) Piper	PW
✓14095	Suriania maritima L.	PW	✓14447	Ipomoea abutiloides (HBK.) Don	PW
✓14104	Citrullus citrullus (L.) Small	PW	✓14451	Capraria biflora L.	PW
✓14106	Croton punctatus Jacq.	PW	✓14464	Bredemeyera floribunda Willd.	PW
✓14108	Calotropis procera (Ait.) R.Br.	PW	✓14465	Quamoclit coccinea (L.) Moench.	PW
✓14110	Canavalia maritima (Aubl.) Thou.	PW	✓14467	Duranta repens L.	PW
✓14113	Ipomoea pes-caprae (L.) Roth	PW	✓14468	Datura fastuosa L.	PW
✓14120	Quamoclit coccinea (L.) Moench.	PW	✓14476	Mamea americana L.	PW
✓14134	Sesuvium portulacastrum L.	PW	✓14478	Jatropha urens L.	PW
✓14137	Evolvulus glaber Spreng.	PW	✓14484	Sapota achras Mill.	PW
✓14142	Elaterium carthaginense Jacq.	PW	✓14485	Bixa orellana L.	PW
✓14146	Spigelia anthelmia L.	PW	✓14486	Chrysophyllum cainito L.	PW
✓14151	Chamaesyce hirta L.	PW	✓14493	Hyptis suaveolens (L.) Poit.	PW
✓14153	Chiococca alba (L.) Hitchc.	PW	✓14525	Microtea debilis Sw.	PW
✓14154	Hippomane mancinella L.	PW	14532	Maripa scandens Aubl.	PW
✓14160	Crotalaria incana L.	PW	✓14534	Capsicum baccatum L.	PW
✓14161	Rauwolfia canescens L.	PW	✓14535	Bredemeyera floribunda Willd.	PW
✓14162	Momordica charantia L.	PW	✓14551	Porophyllum macrocephalum DC.	PAR
✓14169	Melampodium divaricatum (Rich.) DCPW	PW	✓14555	Ipomoea polyanthes R. & S.	PW
✓14181	Acalypha alopecuroides Jacq.	PW	✓14564	Crotalaria retusa L.	PW
✓14186	Tubiflora squamosa (Jacq.) Kuntze	PW	✓14573	Jussiaea erecta L.	PW
✓14191	Rauwolfia canescens L.	PW	✓14577	Jussiaea natans H. & B.	PW
✓14205	Canavalia fendleri Piper	PW	✓14581	Lawsonia inermis L.	PW
✓14216	Evolvulus paniculatus (HBK.) DC.	PW	✓14582	Scoparia dulcis L.	PW
✓14228	Ipomoea nil (L.) Roth	PW	✓14583	Hyptis brevipes Poit.	PW
✓14232	Ipomoea meyeri (Spreng.) D. Don	PW	✓14594	Acalypha arvensis Poepp. & Endl.	PW
✓14234	Ipomoea abutiloides (HBK.) Don	PW	✓14596	Ipomoea crassicaulis (Benth.) Rob.	PW
✓14252	Capsicum baccatum L.	PW	✓14597	Utricularia foliosa L.	JHB
✓14255	Hura crepitans L.	PW	✓14611	Ipomoea nil (L.) Roth.	PW
✓14258	Euphorbia adiantoides Lam.	PW	✓14616	Datura metel L.	PW
✓14280	Scoparia dulcis L.	PW	✓14617	Jatropha gossypifolia L.	PW
✓14282	Tridax procumbens L.	PW	✓14618	Leonotis nepetaefolia (L.) R.Br.	PW
✓14284	Guazuma guazuma (L.) Cockerell	PW	✓14619	Cryptostegia grandiflora R.Br.	PW
✓14288	Tubiflora squamosa (Jacq.) Ktze.	PW	✓14620	Canavalia fendleri Piper	PW
✓14290	Tectaria martinicensis (Spr.) Copel. ACS	PW	✓14633	Dalechampia tiliifolia Lam.	PW
✓14294	Panicum zizanioides HBK.	PW	✓14636	Capraria biflora L.	PW
✓14303	Elaterium carthaginense Jacq.	PW	✓14644	Quamoclit coccinea (L.) Moench.	PW
			✓14653	Tabernaemontana psychotrifolia HBK	PW

KILLIP AND SMITH PLANTS DET. AT NEW YORK BOTANICAL GARDEN

- ✓14654 Ipomoea sericantha Griseb. PW
✓14663 Sapindus Saponaria L. HAG
✓14687 Ocimum basilicum L. PW
✓14688 Leonurus sibiricus L. PW
✓14691 Ipomoea abutiloides (HBK) Don PW
✓14702 Hyptis mutabilis (L. Rich.)
Briquet PW
✓14703 Mykosyrinx Cissi (DC) G. Beck PW
✓14713 Ipomoea polyanthes R. and S. PW
✓14719 Stethoma comata (L.) Britton PW
✓14724 Melia Azedarach L. PW
✓14726 Ceiba pentandra (L.) Gaertn. PW
✓14731 Manihot Manihot (L.) Cockerell PW
✓14757 Manihot Manihot (L.) Cockerell PW
✓14758 Chamissoa altissima (Jacq.) HBK PW
✓14765 Chamissoa altissima (Jacq.) HBK PW
✓14767 Blechnum Blechnum (L.) Millsp. PW
✓14778 Ipomoea polyanthes R. and S. PW
✓14779 Jussiaea erecta L. PW
✓14781 Utricularia foliosa L. ACS
✓14791 Ceratopteris pteridoides
(Hook.) Hieron. ACS
✓14794 Hyptis atrorubens Poit. PW
✓14796 Pavonia sessiliflora HBK PW
✓14805 Oldenlandia herbacea (L.) DC PW
✓14806 Hyptis verticillata Jacq. PW
✓14814 Coutoubea ramosa Aubl. PW
✓14816 Dioclea lasiocarpa Mart. PW
✓14819 Pityrogramma calomelaena
(L.) Link. ACS
✓14826 Urena sinuata L. PW
✓14831 Salpichlaena volubilis
(L.) E. Sm. ACS
✓14835 Clidemia neglecta D. Don. HAG
✓14837 Lindsaya falcata Dry. ACS
✓14858 Hyptis atrorubens Poit. PW
✓14883 Anacardium occidentale L. PW
✓14888 Pavonia sessiliflora HBK PW
✓14913 Jussiaea nervosa Poir. PW
✓14926 Mabea occidentalis Benth. PW
✓14936 Stethoma comata (L.) Britton PW
✓14973 Miconia triplinervis R. and P. PW
HAG
✓14984 ~~Psidium~~ ~~Merktzianax~~
✓14994 Cerbera Thevetia L. PW
✓15011 Aneimia villosa H. and B. ACS
✓15018 Ernestia quadrisetosa
O. Berg HAG
✓15035 Lindsaya stricta (Sw.) Dry. ACS
✓15087 Marsypianthes Chamaedrys
(Vahl) Kuntze PW
✓15123 Fuchsia hybrida Voss PW
✓15134 Leiphaimos aphylla (Jacq.) Gilg.
PW
✓15142 Stenophyllus junciformis
(HBK) Britton NLB
✓15149 Oleandra neriiiformis Cav. ACS
✓15150 Vittaria stipitata Kze. ACS
✓15169 Oleandra neriiiformis Cav. ACS
✓15172 Ocotea guianensis Aubl. PW
✓15199 Siphocampylus reticulatus
(Willd.) Kl. and Karsten HAG
✓15218 Ichnanthus verticellatus
Mez. PW
✓15239 Stenophyllus junciformis
(HBK) Britton NLB
✓15244 Matayba longipes Radlk. HAG
✓15271 Vittaria stipitata Kze. ACS
✓15308 Browallia americana L. PW
✓15337 Lindsaya stricta (Sw.) Dry. ACS
✓15371 Cupania americana L. HAG
✓15404 Marsypianthes chamaedrys
(Vahl) Kuntze PW
✓15408 Brugmansia arborea (L.) Steud. PW
✓15412 Solanum heterophyllum Lam. ACS
✓15428 Dolichos Lablab L. PW
✓15431 Bradburya virginiana (L.)
Kuntze PW
✓15437 Gliricidia Sepium (Jacq.)
Steud. PW
✓15450 Solanum asperum L. C. Rich. ACS
✓15452 Trichanthera gigantea
(H. and B.) Nees. PW
✓15466 Biophytum dendroides DC PW
✓15486 Saracha jaltomata Schlecht ACS
✓15499 Satureia Brownii (Sw.) Briq. PW
✓15523 Chelonanthus acutangulus
(R. and P.) Gilg. PW
✓15534 Phytolacca rugosa A. Br.
and Bouche PW
✓15536 Browallia americana L. PW
✓15537 Erechites valerianaefolia
(Wolf.) DC PAR
✓15544 Saracha jaltomata Schlecht ACS
✓15545 Cyclanthera leptostachya
Benth. PW
✓15616 Hypericum platyphyllum
Gleason HAG
✓15617 Hypericum Brathys Lam. HAG
✓15619 Eryngium humile Cav. PW
✓15629 Gentiana corymbosa HBK PW
✓15635 Poa pardoana Pilger PW
✓15650 Hypericum Phellos Gleason HAG
✓15694 Hypericum chamaemyrtus
Tr. and Pl. HAG
✓15715 Epilobium denticulatum
R. and P. PW
✓15738 Daucus montanus H. and B. PW
✓15812 Psilogramme hirta (HBK) Kuhn ACS
✓15824 Hypericum carinosum Keller HAG
✓15832 Ruta chalapensis L. PW
✓15851 Hypericum Brathys Lam. HAG
✓15856 " " HAG
✓15891 Grammadenia Lehmannii Mez. PW
✓15919 Miconia theaezans (Bonpl.)
Cogn. HAG
✓15920 Hypericum carinosum Keller HAG

KILLIP AND SMITH PLANTS DETERMINED AT N.Y.B.G.

✓15953	Vernonia Lehmannii Hieron.	HAG	✓16518	Sida rhombifolia L.	PW
16068	Pityrogramma tartarea (Cav) Max	ACS	✓16531	Solanum foetidum R. and P.	ACS
✓16105	Lobelia micrantha HBK	HAG	16543	Fuchsia hybrida Voss.	PW
✓16159	Vernonia Lehmannii Hieron.	HAG	✓16602	Alchornea grandiflora Muell. Arg.	PW
✓16165	" "	HAG			
✓16183	Zanthoxylum Fagara (L.) Kuntze	PW	✓16603	Sphacele parviflora Benth.	PW
	Sarg.	PW	✓16614	Solanum quitense Lam.	ACS
✓16188	Adenoropium gossypifolium (L.) Pohl.	PW	✓16619	Salvia palaefolia Kunth	PW
✓16198	Serjania caracasana (Jacq) Willd.	HAG	✓16673	Brugmansia suaveolens (H. and B.) Bercht. and Presl	PW
16201	Aneimia fulva (Cav.) Sw.	ACS	✓16755	Lonicera Japonica Thunb.	PW
✓16203	Rivina humilis L.	PW	✓16773	Acnistus arboreus (L) Schlect.	PW
✓16204	Paullinia leiocarpa Griseb.	HAG	✓16784	Coriaria thymifolia HBK	PW
16207	Adiantopsis chlorophylla (Sw.) Fee	ACS	✓16790	Physalodes physalodes (L.) Britton	ACS
✓16213	Guazuma Guazuma (L) Cockerell	PW	16808	Doryopteris concolor (L. and F.) Kuhn	ACS
✓16214	Hyptis mutabilis (L) Rich. Briq	PW	✓16820	Sambucus Simpsoni Rehder	PW
✓16227	Serjania paniculata HBK	HAG	✓16821	Maurandya Barclayana Lindl.	PW
✓16232	" "	HAG	✓16826	Adenaria floribunda HBK	PW
✓16236	Catharanthus roseus (L.) G. Don.	PW	16851	Cheilanthes myriophylla Desv	ACS
✓16243	Acalypha macrostachya Jacq.	PW	✓16853	Xanthoxalis cocciculata (L.) Small	PW
✓16246	Arrabidaea pachycalyx Sprague	PW	16857	Notholaena bonariensis (Willd.) C. Chr.	ACS
✓16252	Zanthoxylum microcarpum Griseb	PW	✓16859	Daucus montanus H. and B.	PW
✓16256	Guazuma Guazuma (L.) Cockerell	PW	16878	Pityrogramma calomelaena (L.) Link.	ACS
✓16261	Serjania caracasana (Jacq) Willd.	HAG	✓16898	Solanum torvum Sw.	ACS
✓16269	Helicteres baruensis Jacq.	PW	✓16899	Sphacele parviflora Benth.	PW
✓16272	Warszewiczia coccinea (Vahl) Klotzsch	PW	✓16904	Hypericum carinosum Keller	HAG
✓16287	Jacquemontia pentantha (Jacq.) Don.	PW	✓16947	Solanum oblongifolium HBK	ACS
✓16294	Amyris Plumieri DC	PW	✓16949	Solanum quitense Lam.	ACS
✓16295	Crotalaria nitens HBK	PW	✓17007	Browallia americana L.	PW
✓16309	Quamoclit coccinea (L.) Moench	PW	17028	Pityrogramma tartarea (Cav) Max.	ACS
✓16312	Paullinia leiocarpa Griseb.	HAG	✓17047	Ipomoea Meyeri (Spreng) G. Don.	PW
✓16313	Scutellaria purpurascens Sw.	PW	✓17138	Hypericum laricifolium Gleason (type)	HAG
✓16316	Ocimum micranthum Willd.	PW	✓17156	Solanum oblongifolium HBK	ACS
✓16317	Muntingia Calabura L.	PW	✓17161	Vicia Faba L.	PW
✓16328	Adenaria floribunda HBK	PW	✓17173	Lobelia micrantha HBK	HAG
✓16360	Adiantopsis chlorophylla (Sw.) Fee	ACS	✓17175	Pellaea ternifolia (Cav) Link	ACS
✓16377	Amyris Plumieri DC	PW	✓17194	Franseria artemisioides Willd.	PAR
✓16379	Serjania paniculata HBK	HAG	✓17211	Aegopogon cenchroides H. and B.	PW
✓16413	Pavonia sepium St. Hil.	PW	17222	Psilogramme flexuosa (H. and B.) Desv.	ACS
✓16416	Jasminum grandiflorum L.	PW	✓17252	Vicia andicola HBK	PW
✓16419	Adenaria floribunda HBK	PW	✓17262	Xanthoxalis cocciculata (L.) Small	PW
16423	Cheilanthes myriophylla Desv	ACS	✓17301	Coriaria thymifolia H. and B.	PW
✓16427	Buddleia americana L.	PW	✓17319	Salvia amethystina Smith	PW
✓16449	Echinocystis polycarpa Cogn.	PW	✓17351	Solanum oblongifolium HBK	ACS
61			✓17441	Serjania dasyclados Radlk.	HAG
✓16488	Notholaena bonariensis (Willd.) C. Chr.	ACS	✓17462	Hypericum strictum compactum (Tr. and Bl.) Gleason	HAG
✓16489	Jussiaea peruviana L.	PW	✓17490	" " " " " "	HAG
✓16490	Asclepias curassavica L.	PW			
✓16502	Adenaria floribunda HBK	PW			
✓16503	Acalypha macrostachya Jacq.	PW			
✓16506	Buddleia americana L.	PW			
✓16510	Pteris Haenkeana Pr.	ACS			
✓16512	Rivina humilis L.	PW			

KILLIP AND SMITH PLANTS DETERMINED AT N.Y.B.G.

✓17514	<i>Hypericum mexicanum</i> L.	HAG	✓19053	<i>Amyris Plumieri</i> DC	PW
✓17515	<i>Hypericum platyphyllum</i> Gleason	HAG	✓19063	<i>Sterculia apetala</i>	PW
✓17567	<i>Hypericum strictum compactum</i> (Tr. and Pl.) Gleason	HAG	✓19069	<i>Jasminum grandiflorum</i> L.	PW
✓17659	<i>Hypericum chamaemyrtus</i> Tr. and Pl.	HAG	✓19123	<i>Euphorbia heterophylla</i> L.	PW
✓17694	<i>Hypericum laricifolium</i> Juss.	HAG	19145	<i>Marattia Kaulfussii</i> J.Sm.	ACS
✓17781	<i>Hypericum chamaemyrtus</i> Tr. and Pl.	HAG	✓19152	<i>Meriana barbinervis</i> (Kl.) Naud	PW
✓17829	<i>Centropogon Jahni</i> Gleason	HAG	✓19247	<i>Cyclanthera leptostachya</i> Benth.	PW
✓17864	<i>Foreopanax Humboldtiana</i> Dene. and Pl.	PW	✓19301	<i>Vernonia Lehmannii</i> Hieron.	HAG
✓17887	<i>Solanum oblongifolium</i> HBK	ACS	19302	<i>Rapanea guinensis</i> Aubl.	PW
✓17898	<i>Salvia amethystina</i> Smith	PW	✓19358	<i>Biophytum dendroides</i> DC	PW
✓17901	<i>Chaetolepis alpina</i> Naud.	HAG	19379	<i>Pteris Haenkeana</i> Pr.	ACS
✓17962	<i>Hypericum laricifolium</i> Juss.	HAG	✓19403	<i>Chelonanthus acutangulus</i> (R. and P.) Gilg.	PW
✓18053	<i>Hypericum chamaemyrtus</i> Tr. and Pl.	HAG	✓19410	<i>Teramnus uncinatus</i> (L.) Sw.	PW
18099	<i>Tillandsia complanata</i> Benth.	PW	✓19416	<i>Salvia privoides</i> Benth.	PW
✓18187	<i>Hypericum Weberbaueri</i> Keller	HAG	✓19448	<i>Cobaea scandens</i> Cav.	PW
✓18199	<i>Hypericum Phellos</i> Gleason (type)	HAG	✓19522	<i>Solanum caripense piloso-</i> <i>hirsutum</i> Dunal	PW
✓18205	<i>Hypericum Weberbaueri</i> Keller	HAG	✓19533	<i>Hypericum bryoides</i> Gleason (type)	HAG
✓18211	<i>Fuchsia petiolaris</i> HBK var.	PW	✓19534	<i>Hypericum strictum reductum</i> Gleason (type)	HAG
✓18347	<i>Hypericum chamaemyrtus</i> Tr. and Pl.	HAG	✓19564	<i>Hypericum strictum compactum</i> (Tr. and Pl.) Gleason	HAG
✓18404	<i>Hypericum mexicanum</i> L.	HAG	✓19587	<i>Hypericum Brathys</i> Lam.	HAG
✓18502	<i>Vicia andicola</i> HBK	PW	✓19594	<i>Hypericum mexicanum</i> L.	HAG
✓18526	<i>Oxylobus glanduliferus</i> (Sch-Bip.) Gray	PW	19607	<i>Psilogramme hirta</i> (HBK) Kubn	ACS
✓18545	<i>Hypericum strictum compactum</i> (Tr. and Pl.) Gleason	HAG	19656	<i>Fuchsia hybrida</i> Voss	PW
✓18559	<i>Hypericum platyphyllum</i> Gleason	HAG	✓19676	<i>Franseria artemisioides</i> Willd.	PW
✓18580	" " "	HAG	✓19727	<i>Hypericum Phellos</i> Gleason	HAG
✓18626	" " (type)	HAG	✓19757	<i>Parsonia cordata</i> R. and P.	PW
✓18631	<i>Hypericum bryoides</i> Gleason	HAG	✓19804	<i>Serjania dasyclados</i> Radlk.	HAG
✓18711	<i>Solanum oblongifolium</i> HBK	ACS	✓19879	<i>Meriana barbinervis</i> (Kl.) Naud	HAG
✓18716	<i>Hypericum stenopetalum</i> Turcz.	HAG	✓19886	<i>Vernonia pycnantha</i> Benth.	PW
✓18732	<i>Satureia Brounei</i> (Sw) Briq.	PW	19887	<i>Dicksonia Karsteniana</i> (Kl.) Moore	ACS
✓18734	<i>Medicago hispida</i> Gaertn.	PW	✓19950	<i>Uncinia hamata</i> (Sw.) Urban	NLB
✓18735	<i>Oenothera multicaulis</i> R. and P. var. <i>tarquensis</i> (HBK) M. and J.	PW	✓19990	" " "	NLB
18751	<i>Pellaea ternifolia</i> (Cav.) Link.	ACS	✓20021	<i>Acnistus arboreus</i> (L.) Schlect	PW
✓18752	<i>Nicotiana Tabacum</i> L.	ACS	✓20056	<i>Meriana grandidens</i> Triana	HAG
✓18756	<i>Hypericum stenopetalum</i> Turcz.	HAG	✓20065	<i>Ditassa caucana</i> Pittier	ACS
✓18757	<i>Lippia hirsuta</i> L.f.	PW	✓20079	<i>Sida rhombifolia</i> L.	PW
✓18770	<i>Vittaria stipitata</i> Kze.	ACS	✓20129	<i>Rapanea guianensis</i> Aubl.	PW
✓18852	<i>Vernonia Lehmannii</i> Hieron.	HAG	✓201490	<i>Trichanthera gigantea</i> (H. and B.) Nees.	PW
✓18891	<i>Hypericum Brathys</i> Lam.	HAG	✓20143	<i>Siphocampylus obtusus</i> Wimmer	HAG
✓188923	<i>Marsypianthes Chamaedrys</i> (Vahl) Kuntze	PW	✓20154	<i>Solanum oblongifolium</i> HBK	ACS
✓18901	<i>Miconia corymbiformis</i> Cogn.	HAG	✓20187	<i>Daucus montanus</i> H. and B.	PW
✓18970	<i>Meriana barbinervis</i> (Kl.) Naud	HAG	✓20190	<i>Euphorbia heterophylla</i> L.	PW
✓18999	<i>Meriana grandidens</i> Triana	HAG	✓20204	<i>Satureia Brounei</i> (Sw) Briq.	PW
✓19006	<i>Vernonia pacchensis</i> HBK	HAG	✓20211	<i>Plantago hirtella</i> HBK	PW
✓19009	<i>Rapanea guianensis</i> Aubl.	PW	✓20376	<i>Centropogon densiflorus</i> lugens Wimmer	HAG
19035	<i>Pteris Haenkeana</i> Pr.	ACS	20384	<i>Antrophyum lineatum</i> (Sw) Kl	ACS
			✓20391	<i>Epilobium denticulatum</i> R. and P.	PW

KILLIP AND SMITH PLANTS DETERMINED AT N.Y.B.G.

-20418	Centropogon densiflorus lucens Wimmer	HAG	✓21107	Blechum Blechum(L)Millsp.	PW
✓20485	Parsonia cordata R.and P.	PW	✓21139	Andropogon tener(Nees)Kunth	PW
✓20499	Cestrum tomentosum L.	ACS	✓21167	Hypericum caracasatum Willd.	HAG
✓20504	Trichanthera gigantea(H.and B)Nees	PW			
✓20506	Ocimum micranthum Willd.	PW			
✓20516	Iresine celioides Celosia L.	PW			
✓20528	Asclepias curassavica L.	PW			
✓20529	Cobaea scandens Cav.	PW			
✓20534	Trichanthera gigantea(H.and B) Nees	PW			
✓20554	Siphocampylus obtusus Wimmer	HAG			
✓20655	Grammadenia Lehmannii Mez.	PW			
✓20661	Hypericum chamaemyrtus Tr.and Pl.	HAG			
✓20662	Hypericum Brathys Lam.	HAG			
20670	Dicksonia Karsteniana(Kl.) Moore	ACS			
✓20680	Hypericum chamaemyrtus Tr.and Pl.	HAG			
o/20692	Miconia cataractae Triana	HAG			
✓20749	Cupania americana L.	HAG			
✓20751	Scutellaria purpurascens Sw.	PW			
✓20760	Physalodes physalodes(L.)Britton	ACS			
✓20761	Meriana grandidens Triana	HAG			
✓20764	Euphorbia arenaria HBK	PW			
✓20765	Vernonia brachiata Benth.	HAG			
✓20806	Ionoxalis Martiana(Zucc.) Small	PW			
✓20822	Croton gossypifolius Vahl	PW			
✓20824	Cardiospermum grandiflorum Sw.	HAG			
✓20839	Sauvagesia erecta L.	PW			
o 20843	Valerianodes mutabilis(Jacq.) Kuntze	PW			
✓20860	Casearia sylvestris Sw.	PW			
✓20866	Crotalaria anagyroides HBK	PW			
✓20884	Cardiospermum grandiflorum Sw.	HAG			
✓20938	Muntingia Calabura L.	PW			
✓20939	Croton lobatus L.	PW			
✓20941	Crotalaria incana L.	PW			
✓20943	Bradburya virginiana(L.)Kuntze	PW			
✓20957	Malvastrum spicatum(L.)A.Gray	PW			
✓20971	Tribulus cistoides L.	PW			
✓20981	Melochia tomentosa L.	PW			
✓20991	Paullinia fuscescens Kunth	HAG			
✓21018	Croton ovalifolius West	PW			
✓21025	Zanthoxylum Fagara(L.)Sarg.	PW			
✓21028	Terminalia catappa L.	PW			
✓21047	Lawsonia inermis L.	PW			
✓21050	Tubiflora squamosa(Jacq.)Kuntze	PW			
✓21064	Cardiospermum Corindum L.	HAG			
✓21075	Conocarpus erecta L.	PW			
o ✓21076	Avicennia nitida L.	PW			

14099	15242
14098	15237
14010	14842
14045	14792
15312	14612
15416	

KILLIP-SMITH (COLOMBIA)

- ✓14032. *Manihot pittieri* Pax & Hoffm.
- ✓14044. *Bulnesia arborea* (Jacq.) Engl.
- ✓14050. *Cissus sicyoides* L.
- ✓14066. *Commelina elegans* H. B. K.
- ✓14073. *Euphorbia* (*Chamaesyce*) *hypericifolia* L.
- ✓14081. *Euphorbia* (") " "
- ✓14107. " " *ammannioides* H. B. K.
- ✓14150. *Securidaca scandens* Jacq.
- ✓14159. *Melochia pyramidata* L.
- ✓14161. *Rauwolfia canescens* L.
- ✓14174. *Acalypha villosa* Jacq.
- ✓14221. *Euphorbia graminea* Jacq.
- ✓14238. *Lippia hemispherica* Cham.
- ✓14269. *Acalypha villosa* Jacq.
- ✓14271. *Ipomoea tiliacea* (Willd.) Choisy
- ✓14273. *Thevetia nitida* (H. B. K.) DC.
- ✓14283. *Tabernaemontana amygdalifolia* Jacq.
- ✓14286. *Synedrella nodiflora* (L.) Gaertn.
- ✓14295. *Jatropha urens* L.? (juvenile).
- ✓14313. *Ocimum micranthum* Willd.
- ✓14327. *Garcia nutans* Rohr.
- ✓14332. *Acalypha villosa* Jacq.
- ✓14333. *Stemmadenia grandiflora* (Jacq.) Miers
- ✓14342. *Lippia hemispherica* Cham.
- ✓14364. *Acalypha villosa* Jacq.
- ✓14385. *Acalypha macrostachya* Jacq.
- ✓14391. *Tabernaemontana eggertii* K. Sch.
- ✓14406. *Dendropanax arboreum* (L.) Dec. & Planch.
- ✓14418. *Coccoloba uvifera* (L.) Jacq.
- ✓14426. *Malachra fasciata* Jacq.
- ✓14480. *Commelina longicaulis* Jacq.
- ✓14495. *Leptorrheo filiformis* (M. & G.) C. B. Clarke
- ✓14511. *Operculina alata* (Ham.) Urban
- ✓14534. *Capsicum faccatum* L.
- ✓14538. *Turnera ulmifolia* L.
- ✓14551. *Porophyllum macrocephalum* DC.
- ✓14570. *Persicaria hispida* (H. B. K.) Maza.
- ✓14618. *Leonotis nepetaefolia* R. Br.
- ✓14638. *Operculina alatipes* (Hook.) House
- ✓14643. *Prestonia acutifolia* (Benth.) K. Sch.
- ✓14653. *Stemmadenia* sp. (fruit only)
- ✓14664. *Acalypha villosa* Jacq. *2 sheets at G. H.*
- ✓14666. *Verbesina myriocephala* Sch. Bip.?
- ✓14679. *Garcia nutans* Rohr
- ✓14682. *Thevetia nitida* (H. B. K.) DC.
- ✓14687. *Ocimum canum* Sims
- ✓14688. *Leonurus sibiricus* L.
- ✓14709. *Ipomoea sericantha* Griseb.
- ✓14732. *Costus cylindricus* Jacq.

- ✓14775. *Commelina longicaulis* Jacq.
- ✓14794. *Hyptis atrorubens* Poit.
- ✓14801. *Persicaria punctata* (Ell.) Small
- ✓14806. *Hyptis verticillata* Jacq.
- ✓14807. *Bidens cynapiifolia* H. B. K.
- ✓14885. *Bixa orellana* L.
- 14914. *Eleocharis fistulosa* (Poir.) Link
- ✓14965. *Ipomoea quinquefolia* L.
- ✓14966. *Ipomoea polyanthes* R. & S.
- ✓14980. *Echites hirtella* H. B. K.
- ✓14981. *Euphorbia graminea* Jacq.
- ✓14994. *Thevetia neriifolia* Juss.
- ✓15009. *Heliocarpus americanus* L.
- ✓15014. *Spilanthes americana* (Mutis) Hieron.
- ✓15096. *Tagetes pusilla* H. B. K.
- ✓15117. *Persicaria punctata* (Ell.) Small
- ✓15166. *Symplocos rigidissima* Brand
- ✓15254. *Gnaphalium spicatum* Lam.
- ✓15300. *Commelina longicaulis* Jacq.
- ✓15390. *Phyllanthus niuri* L.
- ✓15404. *Marsypianthes chamaedrys* (Vahl) Ktze.
- ✓15418. *Verbesina aligera* Blake (Type)
- ✓15441. " *columbiana* Robinson
- ✓15449. *Euphorbia* (*Chamaesyce*) *prostrata* Ait.
- ✓15460. *Verbesina killipii* Blake (Type)
- ✓15469. *Echites hirtella* H. B. K.
- ✓15499. *Satureia brownei* (Sw.) Briq.
- ✓15511. *Ipomoea purpurea* (L.) Lam.
- ✓15543. *Siegesbeckia cordifolia* H. B. K.
- ✓15593. *Bidens trilinearia macrantha* (Wedd.) Sharff
- ✓15597. *Siegesbeckia cordifolia* H. B. K.?
- ✓15613. *Achyrocline lehmannii* Hieron.
- ✓15615. *Gnaphalium spicatum* Lam.
- ✓15624. *Acaena cylindrostachya* R. & P.
- ✓15625. *Gnaphalium graveolens* H. B. K.
- ✓15632. *Hypochaeris setosa* (Wedd.) Rusby
- ✓15657. *Achyrocline lehmannii* Hieron.
- ✓15660. *Stellaria cuspidata* Willd.
- ✓15676. *Hypochaeris setosa* (Wedd.) Rusby
- ✓15682. *Bidens triplinervia macrantha* (Wedd.) Sherff
- ✓15693. *Hypochaeris setosa* (Wedd.) Rusby
- ✓15703. *Gnaphalium graveolens* H. B. K.
- ✓15704. *Erigeron uliginosus* Benth
- ✓15732. *Vallea pubescens* H. B. K.
- ✓15739. *Stellaria cuspidata* Willd.
- ✓15764. *Vasquezia titicacensis* (Mey. & Walp.) Blake?
- ✓15767. *Stellaria cuspidata* Willd.
- ✓15795. *Sericotheca argentea* (Mutis) Raf.
- ✓15796. *Muhlenbeckia tamnifolia* (H. B. K.) Meissner
- ✓15898. *Muhlenbeckia tamnifolia* (H. B. K.) Meissner
- ✓15938. *Rhamnus humboldtiana* R. & S.
- ✓16007. *Fragaria vesca* L.
- ✓16067. *Minthostachys tomentosa* (Benth.) Epl.

- ✓16140. *Plantago hirtella* Kunth
 ✓16161. *Mandevilla* sp.
 ✓16195. *Quamoclit coccinea* (L.) Moench.
 ✓16308. *Prestonia acutifolia* (Benth.) K. Sch.
 ✓16313. *Scutellaria purpurascens* Sw. (Det. Leonard)
 ✓16316. *Ocimum micranthum* Willd.
 2/ ✓16374. *Echites trifida* Jacq.
 ✓16342. *Clitoria cajanifolia* (Presl) Benth.
 ✓16366. *Euphorbia graminea* Jacq.
 ✓16371. *Piriqueta viscosa* Griseb.
 ✓16418. *Euphorbia cotinifolia* L.
 ✓16432. *Ipomoea purpurea* (L.) Lam.
 ✓16436. *Evolvulus villosus* R. & P.
 ✓16438. *Melanthera aspera* (Jacq.) Steud.
 ✓16484. *Pavonia spinifex* Cav.
 ✓16520. *Minthostachys mollis* (H. B. K.) Epl.
 ✓16581. *Cardamine ovata* Benth.
 ✓16603. *Sphacele bullata* (H. B. K.) Benth.
 ✓16631. *Psychotria macropodantha* Standl. (Type) (Not *P. podocephala*)
 ✓16669. *Fragaria vesca* L.
 ✓16675. *Bidens pilosa radiata* Sch. Bip.
 ✓16708. *Eleocharis stenocarpa* Svenson (Type)
 ✓16714. *Rosmarinus officinalis* L.
 ✓16790. *Nicandra physalodes* (L.) Pers.
 ✓16791. *Minthostachys mollis* (H. B. K.) Epl.
 ✓16802. *Plantago major* L.
 ✓16830. *Bidens pilosa radiata* Sch. Bip. Sch
 ✓16849. *Spilanthes leucantha* (Lam.) A. H. Moore
 ✓16877. *Phyllanthus salviaefolius* H. B. K.
 ✓16896. *Bidens squarrosa* H. B. K.
 ✓16899. *Sphacele bullata* (H. B. K.) Benth.
 ✓16970. *Solanum nigrum* L. var.
 ✓17011. " " " "
 ✓17023. *Persicaria punctata* (Ell.) Small
 ✓17027. *Nasturtium officinale* R. Br.
 ✓17131. *Spilanthes americana* (Mutis) Hieron.
 ✓17136. *Muhlenbeckia tamnifolia* (H. B. K.) Meissn.
 ✓17158. *Physalis peruviana* L.
 ✓17204. *Bidens rubifolia* H. B. K.
 ✓17233. *Cestrum megalochloranthum* Dunal
 ✓17240. *Vallea pubescens* H. B. K.
 ✓17248. *Minthostachys tomentosa* (Benth.) Epl.
 ✓17254. *Sericotheca argentea* (Mutis) Raf.
 ✓17263. *Cestrum megalochloranthum* Dunal
 ✓17276. *Muhlenbeckia tamnifolia* (H. B. K.) Meissn.
 ✓17297. *Minthostachys tomentosa* (Benth.) Epl.
 ✓17310. *Sericotheca argentea* (Mutis) Raf.
 ✓17326. *Vallea pubescens* H. B. K.
 ✓17376. *Cardamine ovata lehmannii* var. *brachiata* O. E. Schulz

- ✓17403. *Vasquezia titicacensis* (May. & Walp.) Blake
 ✓17405. *Bidens triplinervia* H. B. K.
 ✓17416. *Rumex acetosella* L.
 ✓17430. *Sericotheca argentea* (Mutis) Raf.
 ✓17431. *Achyrocline satureioides* (Lam.) DC.
 ✓17460. *Loeselia glandulosa* G. Don
 ✓17472. *Hypochaeris setosa* (Wedd.) Rusby
 ✓17486. *Bidens triplinervia macrantha* (Wedd.) Sherff
 ✓17510. *Gnaphalium lanuginosum* H. B. K.
 ✓17579. *Cestrum megalochloranthum* Dunal
 ✓17585. *Muhlenbeckia tamnifolia* (H. B. K.) Meissn.
 ✓17590. *Achyrocline lehmannii* Hieron.
 ✓17591. *Hypochaeris setosa* (Wedd.) Rusby
 ✓17593. *Bidens triplinervia macrantha* (Wedd.) Sherff
 ✓17595. *Achyrocline lehmannii* Hieron.
 ✓17641. *Hypochaeris setosa* (Wedd.) Rusby
 ✓17674. *Bidens triplinervia macrantha* (Wedd.) Sherff
 ✓17681. *Hypochaeris setosa* (Wedd.) Rusby
 ✓17716. *Stellaria cuspidata* Willd.
 ✓17792. *Muhlenbeckia tamnifolia* (H. B. K.) Meissn.
 ✓17830. *Vallea pubescens* H. B. K.
 ✓17878. *Vallea* " "
 ✓17879. *Cestrum suaveolens* Rusby?
 ✓17883. " " " ?
 ✓17933. *Muhlenbeckia tamnifolia* (H. B. K.) Meissn.
 ✓17979. *Hypochaeris setosa* (Wedd.) Rusby
 ✓17980. *Bidens triplinervia macrantha* (Wedd.) Sherff
 ✓17995. *Phyllanthus salivaefolius* H. B. K.
 ✓17996. *Solanum nigrum* L. var.
 ✓18009. *Hyptis colombiana* Epl. (not *H. polystachya*)
 ✓18012. *Mandevilla* sp.
 ✓18026. *Silene gallica* L.
 ✓18065. *Muhlenbeckia tamnifolia* (H. B. K.) Meissn.
 ✓18090. *Solanum nigrum* L. var.
 ✓18096. *Helimolobus hispidulus* (DC.) O. E. Schulz
 ✓18101. *Bidens pilosa alapsensis* (H. B. K.) Sherff
 ✓18113. *Satureia brownei* (Sw.) Briq.
 ✓18116. *Cardamine ovata unijuga* O. E. Schulz (Type)
 ✓18134. *Siegesbeckia cordifolia* H. B. K.
 ✓18132. *Solanum nigrum* L. var.
 ✓18150. *Vallea pubescens* H. B. K.
 ✓18179. *Sericotheca argentea* (Mutis) Raf.
 ✓18212. *Bidens triplinervia* H. B. K.
 ✓18220. *Hypochaeris setosa* (Wedd.) Rusby
 ✓18239. *Achyrocline lehmannii* Hieron.
 ✓18242. *Plantago monticola angusta* Pilg.
 ✓18256. *Bidens triplinervia macrantha* (Wedd.) Sherff
 ✓18400. *Bidens triplinervia macrantha* (Wedd.) Sherff
 ✓18405. *Rosmarinus officinalis* L.
 ✓18432. *Achyrocline lehmannii* Hieron.

- ✓18445. *Acaena cylindrostachya* R. & P.
- ✓18456. *Hypochaeris setosa* (Wedd.) Rusby
- ✓18459. *Gnaphalium lanuginosum* H. B. K.?
- ✓18477. *Sericotheca argentea* (Mutis) Raf.
- ✓18490. *Solanum nigrum* L. var.
- ✓18523. *Cestrum buxifolium* H. B. K.
- ✓18529. *Acaena cylindrostachya* R. & P.
- ✓18531. *Cardamine alberti* O. E. Schulz
- ✓18532. *Achyrocline lehmannii* Hieron.
- ✓18548. *Cardamine alberti minor* O. E. Schulz
- ✓18557. *Bidens triplinervia macrantha* (Wedd.) Sherff.
- ✓18576. *Sericotheca argentea* (Mutis) Raf.
- ✓18638. *Hypochaeris setosa* (Wedd.) Rusby
- ✓18647. *Gnaphalium graveolens* H. B. K.?
- ✓18650. *Erigeron pellitus* (H. B. K.) Wedd.
- ✓18651. *Plantago oreades* DC. e.
- ✓18666. *Bidens triplinervia macrantha* (Wedd.) Sherff
- ✓18690. *Stellaria recurvata* H. B. K.
- ✓18730. *Solanum colombianum* Dunal
- ✓18731. *Solanum nigrum* L. var.
- ✓18732. *Satureia bogotana* (Sw.) Briq.
- ✓18779. *Bidens rubifolia* H. B. K.
- ✓18801. *Gnaphalium spicatum* Lam.
- ✓18804. *Stellaria cuspidata* Willd.
- ✓18893. *Martynianthes chamaedrys* (Vahl) Ktze.
- ✓18923. *Cafica candamarcensis* Hook. f.
- ✓18956. *Solanum nigrum* L. var.
- ✓19031. *Passiflora chelidonea* Mast.
- ✓19086. *Achyrocline satyroides* (Lam.) DC.
- ✓19117. *Alomia coelestina* (Regel) Robinson (Det. Robinson)
- ✓19196. *Campelia zanonii* (L.) H. B. K.
- ✓19197. *Tillandsia adpressa tonduziana* L. B. Smith
- ✓19361. *Acalypha diversifolia* Jacq.
- ✓19398. *Operculina alatipes* (Hook.) House
- ✓19406. *Euphorbia graminea* Jacq.
- ✓19409. *Lepidium trianae* Thell.
- 19549. *Eleocharis maculosa* (Vahl) R. & S.
- ✓19550. *Hypochaeris sessiliflora* H. B. K.
- ✓19566. " " "
- ✓19588. *Gnaphalium graveolens* H. B. K.
- ✓19598. *Symplocos rigidissima* Brand
- ✓19606. *Erigeron uliginosus* Benth.
- ✓19639. *Stellaria cuspidata* Willd.
- ✓19652. *Prunus capuli* Cav.
- ✓19659. *Gnaphalium spicatum* Lam.
- ✓19667. *Tagetes graveolens* L'Hér.
- ✓19673. *Nicandra physalodes* (L.) Pers.
- ✓19718. *Stellaria cuspidata* Willd.
- ✓19725. *Symplocos rigidissima* Brand.
- ✓19822. *Laplacea speciosa* H. B. K.
- ✓19828. *Stellaria cuspidata* Willd.
- ✓19850. *Symplocos rigidissima* Brand

- ✓19881. *Symplocos rigidissima* Brand
 ✓19909. *Gnaphalium graveolens* H. B. K.
 20106. *Tillandsia addressa tonduziana* L. B. Smith
 ✓20242. *Physalis peruviana* L.
 ✓20369. *Stellaria cuspidata* Willd.
 ✓20463. *Physalis peruviana* L.
 ✓20498. *Ipomoea purpurea* (L.) Lam.
 ✓20531. *Verbesina turbacensis* H. B. K.
 ✓20545. *Phyllanthus salviaefolius* H. B. K.
 ✓20675. *Symplocos rigidissima* Brand
 ✓20730. *Symplocos* " "
 ✓20736. *Stellaria cuspidata* Willd.
 ✓20741. *Symplocos rigidissima* Brand
~~Nicandra xxxxxxxxxxxxxxxxxx~~
 ✓20760. *Nicandra physalodes* (L.) Pers.
 ✓20780. *Melanthera aspera* (Jacq.) Steud.
 ✓20801. *Spilanthes americana* (Mutis) Hieron.
 ✓20871. *Bidens speciosa patula* (Gr.) O. E. Schulz
 ✓20894. *Verbesina columbiana* Robinson
 ✓20909. *Porophyllum ruderale* (Jacq.) Cass.
 ✓20923. *Prestonia acutifolia* (Benth.) K. Sch.
 ✓20954. *Ipomoea polyanthes* R. & S.
 ✓20967. *Bradburya virginiana* (L.) Kuntze
 20976. *Eleocharis caribaea* (Rottb.) Blake
 ✓20980. *Porophyllum ruderale* (Jacq.) Cass.
 ✓21007. *Ipomoea quinquefolia* L.
 ✓21008. *Cassus sicyoides* L.
 ✓21009. *Turnera ulmifolia* L.
 ✓21035. *Passiflora foetida moritziana* (Planch.) Killip
 ✓21056. *Melochia tomentosa* L.
 ✓21074. *Ipomoea carnea* Jacq.
 ✓21078. *Passiflora foetida eliasii* Killip
 ✓21088. *Passiflora foetida moritziana* (Planch.) Killip
 ✓21103. *Passiflora foetida sanctaemartae* Killip (Type)
 21134. *Eleocharis maculosa* (Vahl) R. & S.
 ✓21144. *Bidens triplinervia macrantha* (Wedd.) Sherff
 ✓21192. *Stellaria cuspidata* Willd.
 ✓21193. *Sanguisorba minor* Scop.
 ✓20204. *Satureia brownei* (Sw.) Briq.
 21213. " " " "
 21214. *Matricaria couarrantiana* DC.
 21220. *Melia azederach* L.
 21222. *Plantago oreades* Dcne.
 20975. *Eleocharis caribaea* (Rottb.) Blake

DETERMINATIONS OF KILLIP-SMITH COLOMBIAN COLLECTION
(U. S. National Museum, March 29, 1928.)

- ✓14048. *Panicum trichoides* Sw.
- ✓14051. " *fasciculatum* Sw.
- ✓14074. " " "
- ✓14082. *Lasiacis ruscifolia* (H. B. K.) Hitchc.
- ✓14096. *Cenchrus insularis* Scribn.
- ✓14097. *Eragrostis prolifera* (Sw.) Steud.
- ✓14103. " " " "
- ✓14119. *Cenchrus echinatus* L.
- ✓14121. *Aristida ternipes* Cav.
- ✓14122. *Eragrostis ciliaris* (L.) Link
- ✓14126. *Lasiacis ruscifolia* (H. B. K.) Hitchc.
- ✓14136. *Chloris polydactyla* (L.) Sw.
- ✓14179. *Panicum trichoides* Sw.
- ✓14184. " *reptans* L.
- ✓14190. *Syntherisma sanguinalis* (L.) Dulac
- ✓14203. *Bouteloua americana* (L.) Scribn.
- ✓14214. *Panicum maximum* Jacq.
- ×14294. " *zizanioides* H. B. K.
- ✓14305. *Guadia latifolia* (H. & B.) Kunth
- ✓14308. *Dactyloctenium aegyptium* (L.) Richt.
- ✓14309. *Eleusine indica* (L.) Gaertn.
- ✓14357. *Panicum trichoides* Sw.
- ✓14367. *Paspalum inconstans* Chase
- ✓14408. *Panicum trichoides* Sw.
- ✓14409. *Melinis minutiflora* Beauv.
- ✓14473. *Pharus latifolius* L.
- ✓14513. *Lasiacis ruscifolia* (H. B. K.) Hitchc.
- ✓14556. *Oryza sativa* L.
- ✓14558. *Panicum barbinode* Trin.
- 14567. " *elephantipes* Nees
- 14568. *Paspalum repens* Berg.
- ✓14569. *Luziola spruceana* Benth.
- ✓14579. *Panicum barbinode* Trin.
- ✓14604. *Eragrostis hypnoides* (Lam.) B. S. P.
- ✓14606. *Leptochloa domingensis* (Jacq.) Trin.
- ✓14639. *Chloris polydactyla* (L.) Sw.
- ✓14640. *Panicum barbinode* Trin.
- ✓14642. *Manisuris exaltata* (L. f.) Kuntze
- ✓14681. *Lasiacis sorghoidea* (Desv.) H. & C.
- ✓14717. *Isocarpha atriplicifolia* (L.) R. Br.
- ✓14718. *Panicum geminatum* Forsk.
- 14740. *Panicum pilosum* Sw.
- ✓14744. " *zizanioides* H. B. K.
- ✓14747. " *pilosum* Sw.
- ✓14753. *Paspalum conjugatum* Berg
- ✓14780. " *virgatum* L.

- ✓14785. *Hymenachne amplexicaulis* (Rodge) Nees
- ✓14786. *Panicum grande* H. & C.
- ✓14813. *Homolepis aturensis* (H. B. K.) Chase
- ✓14825. *Eragrostis maypurensis* (H. B. K.) Steud.
- ✓14850. *Melinis minutiflora* Beauv.
- ✓14859. *Panicum rudgei* R. & S.
- ✓14899. *Anthephora hermaphrodita* (L.) Kuntze
- ✓14952. *Lasiacis sorghoidea* (Desv.) H. & C.
- ✓14992. " " " "
- ✓15025. *Paspalum paniculatum* L.
- ✓15040. *Andropogon fastigiatus* Sw.
- ✓15043. *Echinolaena inflexa* (Poir.) Chase.
- ✓15056. *Siparuna macrophylla* (H. B. K.) A. DC.
- ✓15102. *Eriochrysis cayennensis* Beauv.
- ✓15106. *Panicum viscidellum* Scribn.
- ✓15112. *Paspalum pilosum* Lam.
- ✓15143. " *inconstans* Chase
- ✓15167. *Andropogon leucostachyus* H. B. K.
- ✓15176. *Axonopus compressus* (Sw.) Beauv.
- ✓15178. *Panicum laxum* Sw.
- ✓15192. *Aristida capillacea* Lam.
- ✓15193. *Panicum*
- ✓15218. *Ichnanthus verticillatus* Mez
- ✓15230. *Andropogon hypogynus* Hack.
- ✓15234. *Aristida capillacea* Lam.
- ✓15236. *Paspalum multicaule* Poir.
- ✓15238. *Panicum olyroides* H. B. K.
- ✓15241. *Eragrostis inconstans* Chase
- ✓15249. *Andropogon virgatus* Desv.
- ✓15307. *Axonopus aureus* Beauv.
- ✓15346. *Panicum pulchellum* Raddi
- ✓15382. *Oplismenus hirtellus* (L.) Beauv.
- ✓15383. *Lasiacis sloanei* (Griseb.) Hitchc.
- ✓15385. *Ichnanthus*
- ✓15487. *Pennisetum bambusiforme* (Fourn.) Hemsl.
- ✓15494. *Paspalum scabrum* Scribn.
- ✓15539. *Muhlenbergia diversiglumis* Trin.
- ✓15573. *Paspalum paniculatum* L.
- ✓15588. *Cinna poaeomorpha* (H. B. K.) Scribn.
- ✓15589. *Bromus pitensis* Kunth
- ✓15591. *Agrostis breviculmis* Hitchc.
- ✓15595. *Cardamine alberti* O. E. Schulz, n. sp.
- ✓15596. " *killipii* O. E. Schulz, n. sp.
- ✓15618. *Aciachne pulvinata* Benth.
- ✓15633. *Agrostis perennans* (Walt.) Tuckerm.
- ✓15634. " *trichodes* (H. B. K.) R. & S.
- ✓15635. *Poa pardoana* Pilger
- ✓15643. *Paspalum hirtum* H. B. K.
- ✓15648. *Brassica integrifolia* (West) O. E. Schulz

- o✓15656. Calamagrostis effusa Steud.
- ✓15667. Plantago monticola angusta Pilg.
- ✓15686. Cortaderia nitida (H. B. K.) Pilger
- ✓15757. Paspalum hirtum H. B. K.
- ✓15769. Paspalum trianae Pilger
- ✓15770. Agrostis trichodes (H. B. K.) R. & S.
- ✓15772. Poa annua L.
- ✓15773. Stipa mexicana Hitchc.
- ✓15787. Calamagrostis pittieri Hack.
- ✓15827. Achyrocline crassipes Blake (*previously reported as 15828 by error*)
- ✓15828. Cortaderia nitida (H. B. K.) Pilger
- ✓15830. Neurolepis
- o✓15835. Cortaderia nitida (H. B. K.) Pilger
- o✓15932. Arthrostylidium racemiflorum Steud.
- ✓16061. Agrostis perennans (Walt.) Tuckerm.
- ✓16086. Dactylis glomerata L.
- ✓16192. Paspalum trachycoleon Steud.
- ✓16211. Lasiacis sorghoidea (Desv.) H. & C.
- ✓16235. Pennisetum occidentale Chase
- ✓16277. Andropogon fastigiatus Sw.
- ✓16279. Tripsacum dactyloides L.
- ✓16302. Lasiacis sorghoidea (Desv.) H. & C.
- ✓16374. Eriochloa punctata (L.) Hamilt.
- ✓16454. Simsia pubescens Triana
- ✓16476. Lasiacis ruscifolia (H. B. K.) Hitchc.
- ✓16496. Paspalum notatum Flügge
- o✓16554. Lasiacis divaricata (L.) Hitchc.
- ✓16611. Siparuna macrophylla (H. B. K.) A. DC.
- ✓16673. Oplismenus hirtellus (L.) Beauv.
- ✓16692. Radicula nasturtium-aquaticum (L.) Britten & Rendle
- ✓16736. Aegopogon cenchroides H. & B.
- o✓16774. Muhlenbergia microsperma (DC.) Kunth.
- ✓16794. Lasiacis sorghoidea (Desv.) H. & C.
- ✓16799. Holcus sorghum L.
- ✓16835. Pennisetum bambusiforme (Fourn.) Hemsl.
- ✓16845. Muhlenbergia implicata Trin.
- ✓16846. Eragrostis pastoensis (H. B. K.) Trin.
- ✓16847. Syntherisma sanguinalis (L.) Dulac
- ✓16848. Andropogon saccharoides Sw.
- ✓16864. Chaetochloa geniculata (Lam.) M. & C.
- ✓16876. Melinis minutiflora Beauv.
- ✓16881. Oplismenus hirtellus (L.) Beauv.
- ✓16936. Paspalum prostratum S. & M.
- ✓16940. Agrostis perennans (Walt.) Tuckerm.
- ✓16954. Polypogon lutosus (Poir.) Hitchc.
- ✓16966. Bromus unioloides (Willd.) H. B. K.
- ✓16969. Paspalum scabrum Scribn.
- o✓16988. Polypogon lutosus (Poir.) Hitchc.

- ✓17013. *Lasiacis scabrior* Hitchc.
- 17018. *Paspalum candidum* (H. & B.) Kunth
- ✓17022. *Pennisetum bambusifforme* (Fourn.)
- ✓17060. *Verbesina humboldtii* Spreng.
- ✓17125. *Aegopogon cenchroides* H. & B.
- ✓17139. *Cortaderia nitida* (H. B. K.) Pilger
- ✓17153. *Festuca megalura* Nutt.
- ✓17155. *Polypogon lutosus* (Poir.) Hitchc.
- ✓17211. *Aegopogon cenchroides* H. & B.
- ✓17256. *Agrostis perennans* (Walt.) Tuckerm.
- ✓17288. *Aegopogon cenchroides* H. & B.
- ✓17292. *Paspalum trianae* Pilger
- ✓17293. *Brachypodium mexicanum* (R. & S.) Link
- ✓17294. *Stipa mexicana* Hitchc.
- ✓17299. *Agrostis perennans* (Walt.) Tuckerm.
- ✓17329. *Festuca dolichophylla* Presl
- ✓17354. *Halimolobus hispidulus longistylis* (Tr. & Pl.) O. E. Schulz
- ✓17359. *Poa annua* L.
- ✓17385. *Stipa mucronata* H. B. K.
- ✓17407. *Trinichloa stipoides* (H. B. K.) Hitchc.
- 17413. *Plantago monticola angusta* Pilg.
- ✓17415. *Stipa mexicana* Hitchc.
- 17465. *Plantago monticola angusta* Pilg.
- ✓17466. *Calamagrostis densiflora* (Presl) Steud.
- ✓17467. *Cortaderia sericantha* (Steud.) Hitchc.
- ✓17468. *Calamagrostis effusa* Steud.
- ✓17469. *Agrostis haenkeana* Hitchc.
- ✓17470. *Muhlenbergia*
- ✓17478. *Calamagrostis densiflora* (Presl) Steud.
- ✓17479. " *effusa* Steud.
- ✓17480. *Agrostis haenkeana* Hitchc.
- ✓17481. " *breviculmis* Hitchc.
- ✓17482. *Aciachne pulvinata* Benth.
- ✓17489. *Agrostis trichodes* (H. B. K.) R. & S.
- ✓17500. *Loricaria complanata* (Sch. Bip.) Wedd.
- ✓17540. *Werneria pygmaea* Gill.
- ✓17551. *Agrostis breviculmis* Hitchc.
- 17570. *Plantago monticola angusta* Pilg.
- ✓17573. *Agrostis breviculmis* Hitchc.
- ✓17574. *Poa pardoana* Pilger?
- ✓17588. *Calamagrostis effusa* Steud.
- 17594. *Plantago monticola angusta* Pilg.
- ✓17617. *Phleum alpinum* L.
- ✓17618. *Calamagrostis densiflora* (Presl) Steud.
- ✓17619. *Cortaderia nitida* (H. B. K.) Pilger
- ✓17620. *Werneria pygmaea* Gill.
- 17630. *Plantago linearis eulinaris* Pilg.
- ✓17648. *Muhlenbergia ligularis* (Hack.) Hitchc.
- ✓17653. *Stipa mexicana* Hitchc.
- ✓17678. *Paspalum hirtum* H. B. K.
- ✓17679. *Alopecurus aequalis* Sabal
- ✓17680. *Agrostis breviculamis* Hitchc.

- ✓17690. *Lasiacis scabrior* Hitchc.
- ✓17766. *Cardamine alberti* minor O. E. Schulz, n. sp.
- ✓17864. *Calamagrostis pittieri* Hack.
- ✓17917. *Polypogon lutosus* (Poir.) Hitchc.
- ✓17939. *Poa pardoana* Pilger
- ✓17960. *Stipa mexicana* Hitchc.
- ✓17963. *Cortaderia nitida* (H. B. K.) Pilger
- ✓17966. *Chusquea spicata* Munro
- ✓17978. *Aciachne pulvinata* Benth.
- ✓17992. *Aegopogon cenchroides* H. & B.
- ✓18005. *Chusquea*
- ✓18006. *Melica scabra* H. B. K.
- ✓18024. *Paspalum prostratum* S. & M.
- ✓18044. *Stipa ichu* (R. & P.) Kunth
- ✓18081. *Lepidium bipinnatifidum* Desv.
- ✓18094. *Bromus unioloides* H. B. K.
- ✓18105. *Arthrostylidium racemiflorum* Steud.
- ✓18145. *Siparuna echinata* (H. B. K.) A. DC.
- ✓18216. *Stipa mexicana* Hitchc.
- ✓18218. *Aciachne pulvinata* Benth.
- ✓18236. *Sporobolus lasiophyllus* Pilger
- ✓18238. *Trisetum scabriflorum* Hitchc.
- ✓18248. *Calamagrostis pittieri* Hack.
- ✓18286. *Polypogon lutosus* (Poir.) Hitchc.
- ✓18302. *Isahaemum latifolium* (Spreng.) Kunth.
- ✓18386. *Paspalum trianae* Pilger
- ✓18395. *Torresia rodolens* (Forst.) R. & S.
- ✓18402. *Werneria pygmaea* Gill.
- ✓18410. *Agrostis breviculmis* Hitchc.
- ✓18416. *Stipa mexicana* Hitchc.
- 18424. *Plantago monticola angusta* Pilger
- ✓18431. *Calamagrostis bogotensis* Pilger
- ✓18436. *Agrostis trichodes* (H. B. K.) R. & S.
- ✓18448. *Aciachne pulvinata* Benth.
- ✓18451. *Stipa mexicana* Hitchc.
- ✓18458. *Poa pardoana* Pilger
- ✓18461. *Calamagrostis effusa* Steud.
- ✓18479. *Festuca sublimis* Pilger
- ✓18487. *Paspalum scabrum* Scribn.
- ✓18543. *Agrostis breviculmis* Hitchc.
- 18553. *Plantago monticola angusta* Pilger
- ✓18558. *Agrostis araucana* Phil.
- ✓18560. " *tolucensis* H. B. K.
- ✓18566. *Cardamine alberti* O. E. Schulz
- 18571. *Plantago oreades* Dcne.
- ✓18637. *Chusquea spicata* Munro
- ✓18643. *Werneria pygmaea* Gill.
- ✓18649. *Danthonia secundiflora* Presl
- 18654. *Plantago linearis agrostophylla* (Dcne.) Pilger
- ✓18679. *Chusquea spicata* Munro
- 18747. *Stipa mucronata* H. B. K.

- ✓18792. *Poa annua* L.
- ✓18822. *Polypogon lutosus* (Poir.) Hitchc.
- ✓18886. *Andropogon macrothrix* Trin.?
- ✓18952. *Polypogon elongatus* H. B. K.
- ✓19010. *Isachne rigens* (Sw.) Trin.
- ✓19013. " *arundinacea* (Sw.) Griseb.
- ✓19038. *Paspalum trachycoleon* Steud.
- ✓19085. *Andropogon bicornis* L.
- ✓19109. *Chaetochloa geniculata* (Lam.) M. & C.
- ✓19127. *Pennisetum bambusiforme* (Fourn.) Hemsl.
- ✓19251. *Radicula nasturtium-aquaticum* (L.) Britten & Rendle
- ✓19252. *Oplismenus hirtellus* (L.) Beauv.
- ✓19411. *Lasiacis sloanei* (Griseb.) Hitchc.
- ✓19463. *Isachne rigens* (Sw.) Trin.
- ✓19471. *Oplismenus hirtellus* (L.) Beauv.
- ✓19578. *Stipa mexicana* Hitchc.
- ✓19579. *Paspalum trianae* Pilger
- ✓19640. *Halimolobus hispidulus* (DC.) O. E. Schulz
- ✓19678. *Torresia redolens* (Forst.) R. & S.
- ✓19704. *Cardamine ovata bracteata* O. E. Schulz
- ✓19719. *Festuca presliana* (Presl) Hitchc.
- ✓19730. *Paspalum trianae* Pilger
- ✓19760. *Aegopogon cenchroides* H. & B.
- ✓19770. *Paspalum humboldtianum* Flügge
- ✓19771. *Andropogon saccharoides* Sw.
- ✓19782. *Eragrostis pastoensis* (H. B. K.) Trin.
- ✓19784. *Pennisetum bambusiforme* (Fourn.) Trin.
- ✓19812. *Panicum vicidellum* Scribn.
- ✓19813. *Chaetochloa geniculata* (Lam.) M. & C.
- ✓19895. *Polypogon lutosus* (Poir.) Hitchc.
- ✓19901. *Chusquea serrulata* Pilger
- ✓19986. *Bromus unioloides* (Willd.) H. B. K.
- ✓20046. *Panicum vicidellum* Scribn.
- ✓20071. *Zeugites mexicana* (Kunth) Trin.
- ✓20160. *Poa annua* L.
- ✓20211. *Plantago hirtella* H. B. K.
- ✓20371. *Cardamine alberti* O. E. Schulz
- ✓20503. *Lasiacis sloanei* (Griseb.) Hitchc.
- ✓20544. *Panicum vicidellum* Scribn.
- ✓20641. *Agrostis perennans* (Talt.) Tuckerm.
- ✓20665. *Paspalum hirtum* H. B. K.
- ✓20699. *Neurolepis*
- ✓20702. *Chusquea serrulata* Pilger
- ✓20755. *Eragrostis mexicana* (T. & G.) Link
- ✓20756. *Polypogon elongatus* H. B. K.
- ✓20757. " *lutosus* (Poir.) Hitchc.
- ✓20793. *Pseuechinolaena polystachya* (H. B. K.) Stapf.
- ✓20802. *Panicum trichoides* Sw.
- ✓20810. *Paspalum scabrum* Scribn.
- ✓20825. *Pennisetum bambusiforme* (Fourn.) Hemsl.

- o/20901. *Lasiacis sorghoidea* (Desv.) H. & C.
- ✓o 20965. *Paspalum fimbriatum* H. B. K.
- ✓o/20984. *Chaetochloa geniculata* (Lam.) M. & C.
- ✓20985. *Valota saccharata* (Buckl.) Chase
- ✓20986. *Chloris polydactyla* (L.) Sw
- ✓21029. *Paspalum barclayi* Chase.
- ✓21036. *Eragrostis ciliaris* (L.) Link
- ✓21072. *Sporobolus argutus* (Nees) Kunth
- ✓o 21117. *Agrostis nigrifolia* Pilger
- ✓21139. *Andropogon tener* (Nees) Kunth
- ✓o 21142. *Stipa mexicana* Hitchc.
- ✓o/21183. *Sonchus oleraceus* L.
- ✓21194. *Chaetium festucoides* Nees
- ✓o 21199. *Echinolaena inflexa* (Poir.) Chase
- o 21223. *Agrostis perennans* (Walt.) Tuckerm.
- o 21225. *Chaetochloa geniculata* (Lam.) M. & C.
- o 21226. *Eragrostis urbanianum* Hitchc.

The grasses are determined by A. S. Hitchcock and Mrs. Agnes Chase;
the Compositae by S. F. Blake; Plantago by Dr. R. Pilger; Cru-
ciferas, by O. E. Schulz, and Siparuna by ~~Mr~~ Perkins.

- 14443 Mikania micrantha HBK.
 14492 Eupatorium odoratum L., var. pauciflorum Hieron.
 14572 Mikania micrantha HBK., " congesta (DC.) Robinson
 14710 " " " " " "
 14803 Eupatorium odoratum L., " pauciflorum Hieron.
~~15687 " ornatilobum Robinson, n. sp.~~
 14694 " odoratum L.
 14699 " "
 14768 Mikania micrantha HBK.
 14882 Eupatorium odoratum L.
 14953 " "
 14967 " Albertosmithii Robinson, n. sp.
 15085 Ageratum conyzoides L.
 15118 Mikania Smithii Robinson
 15174 " antioquiensis Hieron
 15188 Eupatorium arbutifolium Benth., var. sublaeve Robinson
 15189 Ageratum conyzoides L., f. album (Willd.) Robinson
 15198 Eupatorium iridolepis Robinson
 15200 Mikania Smithii Robinson, n. sp.
 15201 Eupatorium arbutifolium Benth., var. sublaeve Robinson
 15226 " ballotaefolium HBK., var. caucense Robinson
 15245 Mikania Ruiziana Poepp.
 15384 Eupatorium pellium Klatt
 15414 Trichogonia rhadinocarpe Robinson
 15429 Mikania Smithii Robinson
 15476 Eupatorium subscandens Hieron.
 15527 Stevia rhombifolia HBK.
 15677 Eupatorium gracile HBK.
 15687 " ornatilobum Robinson, n. sp.
 15689 " subellipticum Robinson
 15702 " gracile HBK.
 15763 Stevia lucida Lag.
 15744 Eupatorium ornatilobum Robinson
 15776 " oceanense Robinson
 15841 " tinifolium HBK.
 15860 " articulatum Sch.-Bip.
 15869 Mikania Lehmannii Hieron.
 15933 Eupatorium Steetzii Robinson, var. columbiense Robinson, var. nov.
 15977 Mikania Cristei Robinson
 16011 " flabellata Rusby
 16066 Eupatorium scabrum L. f.
 16113 " " " "
 16117 Ageratum conyzoides L., f. album (Willd.) Robinson
 16127 Mikania Houstoniana (L.) Robinson, var. santandrensis Robinson
 16164 Eupatorium inulaefolium HBK.
 16166 Mikania nigropunctulata Hieron., var. cryptodonta Robinson
 16171 Eupatorium pellium Klatt
 16180 " odoratum L.
 16228 " " "
 16244 " " "
 16280 " iridolepis Robinson
 16290 Mikania cordifolia (L. f.) Willd.
 16310 Eupatorium morifolium Mill.
 16322 " lebrignense Robinson, n. sp.
 16363 " subscandens Hieron.
 16409 " pycnocephalum Less., var. caucanum Robinson

- 16468 Eupatorium suratense Robinson, v. aphanostictum Robinson, var.nov.
 16469 " solidaginoides HBK.
 16487 " " "
 16494 " subscandens Hieron.
 16495 Mikania micrantha HBK.
 16533 Eupatorium suratense Robinson, n. sp.
 16550 " perglabrum Robinson, *n. sp.*
 16593 " ibaguense Sch.-Bip.
 16657 " leucolithogenum Robinson
 16668 " psilodorum Robinson
 16690 " pycnocephalum Less.
 16691 " heteroneurum (Ernst) Robinson
 16705 " scabrum L. f.
 16717 " inulaefolium HBK., f. suaveolens (HBK.) Hieron.
 16723 " macrophyllum L.
 16727 Mikania Houstoniana(L.) Robinson, v. santandrensis Rob., f. apodoccephala Robinson, f. nova

 16824 Eupatorium porifolium Mill.
 16866 Stevia lucida Lag.
 16883 Eupatorium stoechadifolium L. f.
 16905 " gracile HBK., var. epilobioides (HBK.) Robinson
 16929 " perglabrum Robinson
 16961 " ibaguense Sch.-Bip.
 17052 " inulaefolium HBK.
 17101 " macrophyllum L.
 17129 " arbutifolium Benth., var. sublaeve Robinson
 17130 " gracile HBK., var. epilobioides (HBK.) Robinson
 17157 " scabrum L. f.
 17171 Stevia lucida Lag.
 17184 Eupatorium scabrum L. f.
 17203 " glyptophlebium Robinson
 17205 " gracile HBK., var. epilobioides (HBK.) Robinson
 17216 " glyptophlebium Robinson
 17230 " baccharoides HBK., var. araneotectum Robinson, *n. var.*
 17231 " tinifolium HBK.
 17243 " stoechadifolium L. f.
 17247 Stevia lucida Lag.
 17264 Eupatorium tinifolium HBK.
 17269 Stevia pallida (Sch.-Bip.) Hieron.
 17321 Stevia lucida Lag.
 17379 Eupatorium pycnocephaloides Robinson
 17398 Stevia pallida (Sch.-Bip.) Hieron.
 17429 Eupatorium gracile HBK.
 17488 " " "
 17519 Oxylobus glanduliferus (Sch.-Bip) Gray, f. coloratus Robinson, f.nov.
 17552 Eupatorium gracile HBK.
 17583 " crassiceps Robinson, *n. sp.*
 17598 " gracile HBK.
 17602 Oxylobus glanduliferus (Sch.-Bip.) Gray
 17606 Eupatorium ornatilobum Robinson
 17693 " gracile HBK.
 17700 " fastigiatum HBK.
 17715 " baccharoides, v. araneotectum x crassi~~ceps~~^{ceps} Robinson
 17720 " ornatilobum Robinson
 17740 " " "
 17769 " flavisetum Robinson, var. aetosum Robinson, n. var.
 17808 " oceanense Robinson
 17856 " Apollinairei Robinson

- 17888 *Eupatorium tinifolium* HBK.
 17903 *Stevia lucida* Lag.
 17908 " *pallida* (Sch.-Bip.) Hieron.
 17919 *Eupatorium tinifolium* HBK.
 18047 " *glyptophlebium* Robinson
 18129 *Mikania Houstoniana* (L.) Robinson, var. *santandrensis* Robinson
 18133 *Eupatorium macrophyllum* L.
 18160 " *gracile* HBK., var. *epilobioides* (HBK.) Robinson
 18182 " *glyptophlebium* Robinson
 18184 " *stoechadifolium* L. f.
 18190 " *humile* (Benth.) Hieron. f. *caeruleum* Robinson
 18193 *Stevia lucida* Lag.
 18231 *Eupatorium gracile* HBK.
 18233 " *humile* (Benth.) Hieron.
 18288 " *arbutifolium* Benth., var. *sublaeve* Robinson
 18290 *Mikania Houstoniana* (L.) Robinson, var. *santandrensis* Rob., var. nov.
 18317 *Eupatorium pycnocephalum* Less.
 18356 " *macrophyllum* L.
 18393 *Stevia lucida* Lag.
 18421 *Eupatorium glyptophlebium* Robinson
 18450 " " "
 18460 " *gracile* HBK.
 18524 " *tinifolium* HBK.
 18526 *Oxylobus glanduliferus* (Sch.-Bip.) Gray
 18534 *Eupatorium crassiceps* Robinson
 18564 " *humile* (Benth.) Hieron., f. *caeruleum* Robinson, forma nov.
 18655 " *mutiscuense* Robinson
 18663 " *gracile* HBK.
 18664 " *humile* (Benth.) Hieron., f. *caeruleum* Robinson
 18717 " *stoechadifolium* L. f.
 18718 " *gracile* HBK., var. *epilobioides* (HBK.) Robinson
 18749 " *pycnocephalum* Less.
 18796 " *columbianum* Heer, var. *umbratile* Robinson
 18812 " *apollinairei* Robinson
 18814 " *columbianum* Heer, var. *umbratile* Robinson
 18861 " *perglabrum* Robinson
 18867 " *psilodorum* Robinson
 18870 " *arbutifolium* Benth., var. *sublaeve* Robinson
 18871 " " " " " " " , n. var.
 18906 " " " " " " "
 18912 " *ibaguense* Sch.-Bip.
 18918 " *perglabrum* Robinson
 18947 *Mikania Lehmanni* Hieron.
 19003 " *clematiflora* Rusby
 19029 *Eupatorium ibaguense* Sch.-Bip.
 19041 " *morifolium* Mill.
 19082 " *glyptophlebium* Robinson
 19107 " *ibaguense* Sch.-Bip.
 19116 " *pycnocephalum* Less.
 19118 *Mikania micrantha* HBK.
 19144 *Eupatorium macrophyllum* L.
 19222 " *odoratum* L., var. *mallotophyllum* Robinson
 19237 " *perglabrum* Robinson
 19281 " *leucolithogenum* Robinson, n. sp.
 19414 " *pycnocephalum* Less., var. *caucanum* Robinson
 19469 *Mikania Gonzalezii* Robinson & Greenman
 19485 *Eupatorium ibaguense* Sch.-Bip.
 19535 " *bullatum* Klatt
 19542 " *pycnocephalum* Less.

- 19604 *Eupatorium columbianum* Heer.
 19620 " *articulatum* Sch.-Bip.
 19634 " *tinifolium* HBK.
 19699 " *subellipticum* Robinson
 19731 " *humile* (Benth.) Hieron., f. *erubescens* Robinson, *forma nova*
 19739 " *mutiscuense* Robinson, sp. nov.
 19778 *Stevia lucida* Lag.
 19795 *Eupatorium stoechadifolium* L. f., var. *pamplonense* Robinson, *var. nov.*
 19799 " *neriifolium* Robinson
 19803 " *odoratum* L.
 19811 " *ibaguense* Sch.-Bip.
 19840 *Mikania Stuebelii* Hieron.
 19844 *Eupatorium theaeifolium* Benth.
 19845 " *glyptophlebium* Robinson
 19880 " *tinifolium* HBK.
 19913 " *glyptophlebium* Robinson
 19961 *Mikania Houstoniana* (L.) Robinson, var. *sahtandrensis* Robinson
 19963 " *clematiflora* Rusby
 20052 " *Ruiziana* Poepp.
 20120 " *cordifolia* (L. f.) Willd.
 20133 *Eupatorium odoratum* L.
 20139 *Stevia rhombifolia* HBK., var. *stephanocoma* Sch.-Bip.
 20169 *Eupatorium odoratum* L.
 20206 *Mikania globifera* Rusby
 20243 *Eupatorium mesoreopolium* Robinson
 20328 *Mikania cordifolia* (L. f.) Willd.
 20329 " " " "
 20364 *Eupatorium macrophyllum* L.
 20435 " *heteroneurum* (Ernst) Robinson
 20551 *Mikania cordifolia* (L. f.) Willd.
 20564 " *pachydictya* Robinson, sp. nov.
 20599 *Eupatorium arbutifolium* Benth.
 20602 " *theaeifolium* Benth.
 20604 *Mikania* sp. nov. ? (Material inadequate)
 20612 *Eupatorium glyptophlebium* Robinson
 20616 " *theaeifolium* Benth.
 20656 " *glyptophlebium* Robinson
 20745 *Stevia elatior* HBK.
 20833 *Eupatorium pellium* Klatt
 20844 " *aridolepis* Robinson
 20883 " *Vargasianum* DC.
 20907 " *iresinoides* HBK.
 20952 " *trinitense* (O. Ktze.) Rusby & Rob.
 20960 *Ageratum conyzoides* L., var. *inaequipaleaceum* Hieron
 21154 *Eupatorium odoratum* L.

- 20372 *Mikania miconioides* Robinson
 20962 " *micrantha* HBK.

Determined at the Gray Herbarium by I. M. Johnston

- 14058 *Heliotropium angiospermum* Murray
 14219 " *indicum* L.
 15583 *Myosotis azorica* H. C. Wats. (15228 *Heliotropium salicoides* Cham.
 15610 *Fuchsia petiolaris* HBK., var.
 15734 " " " "
 16039 "
 16485 *Oenothera tetraptera* Cav.
 16604 *Fuchsia Killipii* Johnston
 16695 " " " n. sp. Type
 16738 *Oenothera multicaulis* R. & P., var. *tarquensis* (HBK.) M. & J.
 16776 *Fuchsia Killipii* Johnston
 16873 *Oenothera multicaulis* R. & P., var. *tarquensis* (HBK.) M. & J.
 16958 *Lithospermum mediale* Johnston
 17236 *Fuchsia petiolaris* HBK., var.
 17300 " " " "
 17304 *Hackelia revoluta* (R. & P.) Johnston
 17335 *Fuchsia petiolaris* HBK., var.
 17344 *Hackelia revoluta* (R. & P.) Johnston
 17355 *Lithospermum mediale* Johnston
 17361 *Fuchsia petiolaris* HBK., var.
 17386 " " " "
 17437 *Heliotropium arborescens* L.
 17459 *Fuchsia Killipii* Johnston
 17696 *Hackelia revoluta* (R. & P.) Johnston
 17705 *Borago officinalis* L.
 17755 *Fuchsia petiolaris* HBK., var.
 17771 " " " "
 17873 *Oenothera multicaulis* R. & P., var. *tarquensis* M. & J.
 17874 *Borago officinalis* L.
 18140 *Hackelia revoluta* (R. & P.) Johnston
 18211 *Fuchsia petiolaris* HBK., var.
 18279 *Oenothera multicaulis* R. & P., var. *tarquensis* (HBK.) M. & J.
 18577 *Fuchsia petiolaris* HBK., var.
 18735 *Oenothera multicaulis* R. & P., var. *tarquensis* (HBK.) M. & J.
 18854 *Fuchsia Killipii* Johnston
 19511 *Lithospermum mediale* Johnston
 19599 *Fuchsia petiolaris* HBK., var.
 19647 *Lithospermum mediale* Johnston
 19668 *Borago officinalis* L.
 19680 *Myosotis azorica* H. C. Wats.
 19734 *Fuchsia petiolaris* HBK., var.
 19831 " *perbrevis* Johnston
 19976 " " " "
 20714 " *petiolaris* HBK., var.
 20958 *Heliotropium angiospermum* Murray
 21052 " *ternatum* Vahl
 21060 " *angiospermum* Murray
 21121 *Fuchsia petiolaris* HBK., var.

Determined by Mr. C. A. Weatherby

- 15639 *Luzula racemosa* Desv., var. *humilis* (Buchen.) Castillon
 17576 *Distichia tolimensis* (Dcne.) Buchen.

Plants of Colombia collected by Killip & Smith, 1927.

Determined at the Gray Herbarium by L. B. Smith

14118	<i>Tillandsia aloifolia</i> Hook.
14222	" " "
14261	" " "
14529	" " "
14530	" <i>subimbricata</i> Bak.
15207	" <i>paniculata</i> Ch. & Schdl., var. <i>Fendleri</i> (Gris.) Mez
15843	" <i>aurantiaca</i> Gris.
15930	" <i>complanata</i> Benth.
16348	" <i>usneoides</i> L.
16391	" <i>recurvata</i> L.
16394	" <i>polystachya</i> L.
17207	" <i>aurantiaca</i> Gris.
17776	" <i>Turneri</i> Bak.
18099	" <i>complanata</i> Benth.
18269	" <i>aurantiaca</i> Gris.
18782	" <i>complanata</i> Benth.
19767	" <i>incarnata</i> HBK.
19916	" <i>complanata</i> Benth.
19959	" <i>aurantiaca</i> Griseb.
20075	" <i>paniculata</i> Ch. & Schdl., var. <i>Fendleri</i> (Gris.) Mez
20101	" <i>complanata</i> Benth.
20121	" <i>usneoides</i> L.
20122	" <i>recurvata</i> L.
20177	" <i>tequendamae</i> André
20523	" <i>temuispica</i> André
20650	" <i>complanata</i> Benth.
21098	" <i>aloifolia</i> Hook.

Hitchcock

17636	<i>Tillandsia monadelphica</i> Bak.
21105	" <i>disticha</i> HBK.
21218	" <i>secunda</i> HBK.
21219	" <i>triglochinosides</i> Presl
21222	" <i>juncosa</i> LeC.
21246	" <i>triglochinosides</i> Presl
21360	" <i>floribunda</i> HBK.
21906	" <i>arpocalyx</i> André

Killip & Smith Plants. Additional determinations by Mr. Weatherby.

16709	<i>Juncus bogotensis</i> HBK.
18483	" <i>Andreamus</i> Weatherby, n. sp. ined.
18627	" <i>involutus</i> Steud.
18904	" <i>bogotensis</i> HBK.
19687	" <i>capillaceus</i> Lam.
19883	" <i>microcephalus</i> HBK.
19889	" <i>bufonius</i> L.

Further determinations made at the Gray Herbarium of the plants
of Killip & Smith's Colombian expedition. Apr. 27, 1928.

- 15410 *Oliganthes discolor* (HBK.) Sch.-Bip.
15417 *Eupatorium inulaefolium* HBK., f. *suaveolens* (HBK.) Hieron.
15745 " *tinifolium* HBK.
16524 " *inulaefolium* HBK., f. " " "
17121 " *stoechadifolium* L. f.
17343 " " " "
20103 " *pycnocephalum* Less.
20743 " *Vargasianum* DC.

Corrections of clerical errors in the list previously sent.

For 19542 *Eupatorium pycnocephalum*, read 19642.

In the identification of the hybrid no. 17715, the name of the second
parent is crassiceps, not crassipes.

Colombian Pteridophyta
collected by E. P. Killip
and A. C. Smith, 1926-1927.

(Copy for the University)

o = not a good one
✓ = mounted and in Herb.
other numbers are either not agreed
specifically, or may perhaps double up.

COLOMBIAN PTERIDOPHYTES COLLECTED BY E. P. KILLIP AND A. C. SMITH,
1926-1927.

- ✓ 14290. *Tectaria martinicensis* (Spreng.) Copel.
- ✓ 14292. *Lygodium*
- ✓ 14299. *Dryopteris*
- ✓ 14358. *Dryopteris*
- ✓ 14362. *Adiantum lucidum* (Cav.) Swartz
- ✓ 14433. *Acrostichum aureum* L.
- ✓ 14460. *Polypodium decumanum* Willd.
- 14658. *Asplenium*
- ✓ 14677. *Cyclopeltis semicordata* (Sw.) J. Sm.
- ✓ 14728. *Dryopteris*
- ✓ 14730. *Polypodium crassifolium* L.
- ✓ 14750. *Adiantum*
- ✓ 14751. *Dryopteris*
- ✓ 14754. *Nephrolepis*
- ✓ 14791. *Ceratopteris*
- ✓ 14819. *Pityrogramma calomelaena* (L.) Link
- ✓ 14830. *Selaginella pedata* Klotzsch.
- ✓ 14831. *Salpichlaena volubilis* (Kaulf.) J. Sm.
- ✓ 14833. *Adiantum*
- ✓ 14836. *Alsophila blechnoides* (Rich.) Hook.
- ✓ 14837. *Lindsaya*
- ✓ 14838. *Trichomanes pinnatum* Hedw.
- ✓ 14843. *Selaginella pedata* Klotzsch
- ✓ 14861. *Danaea*
- o 14863. *Adiantum*
- ✓ 14867. *Trichomanes*
- ✓ 14868. *Leptochilus*
- ✓ 14872. *Selaginella jungermannoides* (Gaud.) Spring.
- ✓ 14873. *Lindsaya*
- ✓ 14924. *Dryopteris*
- o 14974. *Lindsaya*
- ✓ 15004. *Lycopodium*
- ✓ 15011. *Anomia*
- ✓ 15016. *Blechnum*
- 15027. *Adiantum*
- 15035. *Lindsaya Lindsaya stricta* (Sw.) Dry.
- ✓ 15039. *Dryopteris*
- ✓ 15041. *Pityrogramma calomelaena* (L.) Link
- ✓ 15057. *Polypodium*
- ✓ 15084. *Nephrolepis*
- ✓ 15088. *Cyathea*
- ✓ 15094. *Lycopodium*

- ✓15109. *Dicranopteris*
- ✓15110. *Dicranopteris*
- ✓15121. *Struthiopteris*
- ✓15128. *Elaphoglossum*
- ✓15129. *Lindsaya*
- ✓15130. *Lindsaya*
- ✓15137. *Lophidium elegans* (Vahl) Presl
- ✓15145. *Polypodium*
- ✓15146. *Elaphoglossum*
- ✓15147. *Polypodium glaucophyllum* Kunze
- ✓15149. *Oleandra*
- ✓15150. *Vittaria*
- ✓15152. *Trichomanes*
- ✓15153. *Trichomanes*
- 15169. *Oleandra*
- ✓15202. *Alsophila*
- 15203. *Trichomanes*
- 15204. *Nephrolepis*
- 15211. *Selaginella*
- ✓15248. *Dryopteris*
- 15257. *Vittaria*
- ✓15271. *Vittaria*
- ✓15272. *Polypodium percussum* Cav.
- ✓15281. *Lycopodium*
- ✓15285. *Elaphoglossum*
- 15287. *Lycopodium*
- ✓15297. *Polypodium*
- ✓15309. *Alsophila*
- 15310. *Trichomanes*
- 15311. *Elaphoglossum*
- 15327. *Trichomanes*
- 15334. *Hymenophyllum*
- 15337. *Lindsaya*
- ✓15338. *Cyathea*
- ✓15339. *Elaphoglossum*
- 15340. *Polypodium*
- ✓15341. *Polybotrya*
- 15342. *Hymenophyllum*
- ✓15344. *Polypodium duale* Maxon
- ✓15355. *Blechnum occidentale* L. (var.)
- 15356. *Polypodium*
- ✓15358. *Hymenophyllum*
- ✓15381. *Dryopteris*
- ✓15407. *Polypodium lanceolatum* L.
- ✓15424. *Equisetum*
- ✓15484. *Selaginella Hoffmannii* Hieron
- ✓15489. *Dryopteris*
- ✓15490. *Struthiopteris*
- 15491. *Lycopodium*
- 15497. *Lycopodium*

- ✓15508. Polypodium
- ✓15550. Pteris podophylla Swartz
- 15551. Selaginella
- ✓15555. Dryopteris
- ✓15556. Asplenium alatum H. & B.
- ✓15558. Diplazium
- ✓15607. Polypodium
- ✓15611. Ophioglossum crocalaphoroides Walt.
- 15636. Lycopodium
- ✓15637. Lycopodium
- ✓15640. Asplenium
- ✓15641. Elaphoglossum
- ✓15642. Polypodium
- ✓15652. Psilogramme
- ✓15653. Lycopodium
- 15654. Elaphoglossum
- ✓15658. Jamesonia
- ✓15664. Lycopodium contiguum Kl.
- ✓15695. Jamesonia
- ✓15696. Asplenium
- ✓15697. Asplenium
- ✓15699. Polystichum
- ✓15700. Struthiopteris
- ✓15701. Polypodium
- ✓15707. Elaphoglossum
- ✓15709. Elaphoglossum
- ✓15710. Elaphoglossum
- ✓15713. Polystichum
- ✓15726. Polypodium
- ✓15727. Polypodium
- ✓15740. Polypodium
- ✓15746. Polypodium
- ✓15747. Polypodium
- ✓15748. Polystichum
- ✓15755. Elaphoglossum
- ✓15758. Psilogramme
- ✓15771. Elaphoglossum
- ✓15774. Asplenium monanthes L.
- ✓15775. Elaphoglossum
- ✓15778. Asplenium monanthes L.
- ✓15780. Polystichum
- ✓15785. Dryopteris
- ✓15786. Elaphoglossum
- ✓15792. Dryopteris paleacea (Sw.)
- ✓15797. Elaphoglossum
- ✓15798. Elaphoglossum
- ✓15799. Lycopodium complanatum L. var.

- ✓15804. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓15807. *Elaphoglossum*
- ✓15808. *Elaphoglossum*
- ✓15809. *Polypodium*
- ✓15812. *Psilogramme*
- ✓15813. *Polypodium*
- ✓15814. *Lycopodium complanatum* L. var.
- ✓15818. *Hymenophyllum*
- 15844. *Elaphoglossum*
- 15845. *Elaphoglossum*
- 15846. *Polypodium*
- ✓15847. *Polypodium*
- 15848. *Polypodium*
- ✓15852. *Alsophila*
- ✓15854. *Polypodium*
- ✓15858. *Polypodium*
- ✓15861. *Cyathea*
- ✓15874. *Elaphoglossum*
- ✓15876. *Asplenium Serra* L. & F.
- ✓15882. *Culeita conifolia* (Hook.) Maxon
- ✓15883. *Elaphoglossum*
- 15885. *Polypodium semihirsutum* Kl.
- ✓15886. *Cyathea*
- ✓15903. *Lycopodium*
- ✓15904. *Dicranopteris*
- ✓15909. *Hymenophyllum*
- ✓15910. *Polypodium*
- ✓15923. *Paesia*
- ✓15928. *Psilogramme*
- 15929. *Asplenium*
- ✓15940. *Lycopodium Jussiaei* Desv.
- ✓15944. *Polypodium glaucophyllum* Kunze
- ✓15948. *Asplenium*
- ✓15950. *Asplenium Serra* L. & F.
- 15957. *Polypodium fraxinifolium* Jacq. aff.
- ✓15959. *Elaphoglossum*
- ✓15968. *Alsophila*
- ✓15972. *Asplenium Serra* L. & F.
- ✓15973. *Polypodium*
- ✓15992. *Trichomanes capillaceum* L.
- ✓15994. *Polypodium*
- ✓15995. *Polypodium glaucophyllum* Kunze
- ✓15996. *Polypodium loriceum* L.
- ✓15999. *Lycopodium clavatum* L. var.
- ✓16018. *Equisetum bogotense* H. B. K.
- 16021. *Polypodium*
- 16022. *Hymenophyllum*
- ✓16024. *Selaginella radiata* (Aubl.) Bak.
- 16031. *Elaphoglossum*
- ✓16033. *Cyathea*
- ✓16034. *Elaphoglossum*
- ✓16041. *Polypodium*

- ✓16049. *Asplenium Serra* L. & F.
- 16053. *Polypodium*
- ✓16057. *Deanstaedtia*
- ✓16059. *Struthiopteris*
- ✓16068. *Pityrogramma tartarea* (Cav.) Maxon
- ✓16069. *Polypodium glaucophyllum* Kunze
- ✓16071. *Equisetum bogotense* H. B. K.
- ✓16076. *Polypodium fraxinifolium* Jacq.
- 16096. *Asplenium raddianum* Stand.
- ✓16098. *Asplenium*
- ✓16123. *Equisetum*
- ✓16130. *Dryopteris*
- ✓16136. *Dryopteris*
- ✓16143. *Hymenophyllum*
- ✓16144. *Hymenophyllum*
- 16145. *Hymenophyllum*
- 16146. *Hymenophyllum*
- 16147. *Hymenophyllum*
- 16148. *Hymenophyllum*
- 16201. *Anemia*
- ✓16202. *Asplenium praemorsum* Swartz
- ✓16207. *Adiantopsis*
- ✓16217. *Dryopteris patens* (Sw.) Kuntze
- 16238. *Cheilanthes*
- ✓16284. *Polypodium*
- ✓16356. *Asplenium pumilum* Swartz
- ✓16357. *Dryopteris*
- ✓16360. *Adiantopsis*
- ✓16368. *Asplenium praemorsum* Swartz
- ✓16369. *Polypodium*
- ✓16372. *Trismeria trifoliata* (L.) Diels
- 16381. *Anemia*
- ✓16382. *Pellaea flexuosa* (Kaulf.) Link
- ✓16386. *Notholaena bonariensis* (Willd.) C. Chr.
- ✓16397. *Polypodium*
- 16404. *Polypodium*
- 16422. *Adiantum*
- 16423. *Cheilanthes*
- ✓16486. *Notholaena bonariensis* (Willd.) C. Chr.
- ✓16580. *Polypodium lanceolatum* L.
- 16507. *Asplenium*
- ✓16509. *Blechnum occidentale* L.
- ✓16518. *Pteris*
- 16551. *Elaphoglossum*
- ✓16555. *Elaphoglossum*
- ✓16556. *Asplenium*
- ✓16557. *Dryopteris*
- ✓16563. *Asplenium*
- ✓16567. *Selaginella mnioides* (Lieb.) A. Br.
- ✓16569. *Polypodium*

- ✓16582. Polypodium
- ✓16587. Diplazium
- ✓16594. Pteris
- 16632. Asplenium
- ✓16636. Struthiopteris sp. Juvenile.
- 16638. Trichomanes *diaphanum* Kth. var. *eximium* (Kunze) Hieron.
- ✓16639. Asplenium harpeodes Kunze
- 16647. Polypodium
- ✓16652. Asplenium
- ✓16653. Polypodium
- ✓16658. Trichomanes montenum Hook.
- ✓16659. Dryopteris
- ✓16676. Diplazium
- 16677. Asplenium Serra L. & F.
- ✓16700. Asplenium monanthes L.
- ✓16703. Cystopteris fragilis (L.) Bernh.
- ✓16731. Equisetum bogotense H. B. K.
- 16732. Elaphoglossum
- 16733. Elaphoglossum
- ✓16734. Pteris
- 16735. Hymenophyllum
- ✓16803. Asplenium theciferum (H. B. K.) Mett.
- ✓16804. Asplenium praemorsum Swartz
- ✓16808. Dryopteris
- ✓16809. Asplenium monanthes L.
- 16817. Polypodium
- 16850. Dryopteris
- 16851. Cheilanthes
- ✓16857. Notholaena bonariensis (Willd.) C. Chr.
- ✓16861. Asplenium praemorsum Swartz
- ✓16878. Pityrogramma
- ✓16880. Asplenium
- ✓16882. Asplenium monanthes L.
- ✓16902. Polypodium
- ✓16903. Polypodium glaucophyllum Kunze
- ✓16911. Dryopteris paleacea (Sw.)
- 16914. Elaphoglossum
- ✓16937. Asplenium auritum Swartz
- ✓16938. Polypodium
- ✓16942. Lycopodium clavatum L. var.
- ✓16944. Elaphoglossum
- ✓16964. Polystichum
- ✓16965. Asplenium
- ✓16985. Polypodium
- ✓16986. Polystichum
- ✓16991. Polypodium
- ✓16994. Blechnum occidentale L.

- ✓ 16996. *Alsophila*
- ✓ 17000. *Dennstaedtia*
- ✓ 17009. *Adiantum*
- 17010. *Asplenium*
- ✓ 17012. *Selaginella* *Bangii* *Hieron.*?
- 17019. *Asplenium*
- 17020. *Pteris quadriaurita* Retz.
- ✓ 17028. *Pityrogramma tartarea* (Cav.) Maxon
- ✓ 17032. *Cystopteris fragilis* (L.) Bernh.
- ✓ 17038. *Asplenium*
- 17043. *Polystichum*
- ✓ 17075. *Diplazium*
- ✓ 17084. *Polystichum*
- ✓ 17088. *Asplenium*
- ✓ 17089. *Asplenium theciferum* (H. B. K.) Mett.
- ✓ 17105. *Adiantum*
- ✓ 17124. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓ 17128. *Lycopodium*
- ✓ 17146. *Alsophila quadripinnata* (Gmel.) C. Chr.
- 17151. *Asplenium*
- 17152. *Asplenium monanthes* L.
- ✓ 17162. *Pteris*
- ✓ 17164. *Polypodium*
- ✓ 17165. *Polypodium glaucophyllum* Kunze
- ✓ 17175. *Pellaea ternifolia* (Cav.) Link
- ✓ 17176. *Dryopteris*
- ✓ 17177. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓ 17181. *Dryopteris paleacea* (Sw.)
- 17189. *Elaphoglossum*
- ✓ 17190. *Elaphoglossum*
- ✓ 17201. *Alsophila quadripinnata* (Gmel.) C. Chr.
- 17219. *Hymenophyllum*
- 17220. *Hymenophyllum*
- 17221. *Hymenophyllum*
- ✓ 17222. *Psilogramme*
- ✓ 17232. *Polystichum*
- ✓ 17250. *Cheilanthes lendigera* (Cav.) S wartz
- ✓ 17251. *Elaphoglossum*
- 17258. *Polypodium*
- 17259. *Asplenium* *adolepton* *Free*
- ✓ 17260. *Asplenium monanthes* L.
- 17261. *Polystichum*
- 17277. *Polystichum*
- 17289. *Elaphoglossum*
- ✓ 17295. *Polypodium*
- 17315. *Polypodium*
- 17324. *Woodsia*
- ✓ 17332. *Dryopteris*
- ✓ 17333. *Asplenium monanthes* L.

- ✓17345. Polypodium
- ✓17349. Cystopteris fragilis (L.) Bernh.
- 17356. Polypodium
- ✓17357. Pellaea ternifolia (Cav.) Link
- 17383. Struthiopteris
- ✓17402. Polystichum
- 17412. Jamesonia
- 17418. Polypodium
- 17424. Asplenium
- 17438. Blechnum occidentale L. var.
- 17439. Cheilanthes
- ✓17440. Pellaea flexuosa (Kaulf.) Link
- ✓17443. Asplenium praemorsum Swartz
- 17473. Polypodium
- 17474. Lycopodium
- 17475. Jamesonia
- 17476. Lycopodium
- 17477. Polypodium
- 17498. Elaphoglossum
- ✓17569. Elaphoglossum
- 17571. Elaphoglossum
- 17575. Jamesonia
- ✓17605. Lycopodium
- ✓17613. Polypodium
- ✓17624. Elaphoglossum
- ✓17633. Woodsia
- ✓17635. Elaphoglossum
- ✓17647. Jamesonia
- ✓17654. Dryopteris
- ✓17665. Elaphoglossum
- ✓17706. Dryopteris paleacea (Sw.)
- ✓17707. Elaphoglossum
- ✓17708. Polypodium
- 17712. Asplenium *cladolepton* *Free*
- 17713. Polypodium
- 17725. Jamesonia
- ✓17741. Elaphoglossum
- 17748. Elaphoglossum
- 17749. Lycopodium
- ✓17751. Polypodium
- ✓17752. Jamesonia
- ✓17756. Hymenophyllum
- 17757. Asplenium *cladolepton* *Free*
- 17758. Elaphoglossum
- 17759. Hymenophyllum
- 17760. Dryopteris
- 17762. Lycopodium
- 17763. Struthiopteris
- ✓17768. Asplenium
- ✓17787. Hymenophyllum
- ✓17793. Dryopteris

- ✓17794. *Polypodium*
- ✓17806. *Elaphoglossum*
- ✓17811. *Dryopteris*
- 17812. *Jamesonia*
- ✓17815. *Dicksonia*
- ✓17821. *Cyathea*
- ✓17823. *Polypodium*
- 17836. *Polypodium*
- ✓17838. *Cystopteris fragilis* (L.) Bernh.
- ✓17839. *Hymenophyllum*
- ✓17846. *Elaphoglossum*
- 17847. *Polypodium*
- ✓17854. *Dicksonia*
- ✓17859. *Histiopteris incisa* (Thunb.) J. Sm.
- 17867. *Elaphoglossum*
- 17880. *Elaphoglossum*
- ✓17891. *Struthiopteris*
- ✓17892. *Elaphoglossum*
- 17893. *Elaphoglossum*
- 17900. *Polypodium*
- ✓17911. *Cystopteris fragilis* (L.) Bernh.
- ✓17912. *Pityrogramma*
- ✓17921. *Histiopteris incisa* (Thunb.) J. Sm.
- ✓17925. *Polypodium*
- ✓17932. *Dryopteris paleacea* (Sw.)
- 17937. *Elaphoglossum*
- ✓17947. *Struthiopteris*
- ✓17950. *Cystopteris fragilis* (L.) Bernh.
- 17951. *Elaphoglossum*
- 17952. *Polypodium*
- 17958. *Polypodium*
- 17959. *Polypodium*
- 17964. *Isetes*
- 17967. *Lycopodium*
- 17968. *Lycopodium*
- 17970. *Elaphoglossum*
- 17977. *Elaphoglossum*
- 17983. *Polystichum*
- ✓18003. *Asplenium praemorsum* Swartz
- 18011. *Elaphoglossum*
- ✓18022. *Equisetum bogotense* H. B. K.
- ✓18027. *Cystopteris fragilis* (L.) Bernh.
- 18032. *Asplenium*
- ✓18036. *Polypodium glaucophyllum* Kunze
- 18054. *Elaphoglossum*
- ✓18064. *Histiopteris incisa* (Thunb.) J. Sm.
- ✓18084. *Galeita conifolia* (Hook.) Maxon
- ✓18095. *Dicksonia*
- ✓18097. *Polypodium*

- ✓ 18114. Selaginella *Poeppigiana* (Hook. & Grev.) Spring
- ✓ 18118. Polypodium
- ✓ 18128. Polystichum
- ✓ 18135. Polypodium
- 18136. Polypodium
- ✓ 18143. Polypodium
- 18147. Adiantum
- 18164. Hymenophyllum
- ✓ 18168. Dryopteris
- ✓ 18175. Asplenium
- ✓ 18191. Jamesonia
- ✓ 18195. Psilograeme
- 18197. Asplenium *cladolepton* Trée
- 18198. Asplenium *sessilifolium* Desv.
- 18203. Jamesonia
- ✓ 18209. Lycopodium
- ✓ 18251. Polystichum
- ✓ 18252. Struthiopteris
- 18260. Elaphoglossum
- 18261. Elaphoglossum
- 18263. Elaphoglossum
- ✓ 18275. Polypodium *lanceolatum* L.
- ✓ 18280. Selaginella *radiata* (Aubl.) Bal.
- ✓ 18294. Dryopteris
- ✓ 18297. Dryopteris
- ✓ 18303. Elaphoglossum
- ✓ 18329. Lycopodium
- ✓ 18335. Dryopteris
- ✓ 18336. Dryopteris
- ✓ 18348. Selaginella *radiata* (Aubl.) Bal.
- ✓ 18351. Polystichum
- ✓ 18352. Asplenium
- ✓ 18357. Selaginella *Poeppigiana* (Hook. & Grev.) Spring.
- 18408. Elaphoglossum
- 18419. Lycopodium
- 18428. Asplenium
- ✓ 18433. Jamesonia
- 18435. Lycopodium
- ✓ 18446. Jamesonia
- 18454. Lycopodium
- 18455. Lycopodium
- ✓ 18463. Struthiopteris
- 18465. Lycopodium
- 18476. Polypodium
- ✓ 18478. Polystichum
- ✓ 18488. Polypodium
- 18489. Polypodium
- 18495. Asplenium
- 18498. Elaphoglossum
- ✓ 18500. Struthiopteris

- ✓18506. *Psilogramme*
- 18507. *Asplenium*
- 18509. *Asplenium*
- ✓18510. *Polypodium murorum* Hook.
- 18511. *Polypodium*
- 18516. *Asplenium*
- 18517. *Elaphoglossum*
- ✓18518. *Polypodium*
- ✓18527. *Polystichum*
- 18540. *Botrychium*
- ✓18550. *Asplenium fragile* Presl
- 18578. *Elaphoglossum*
- ✓18575. *Asplenium monanthes* L.
- ✓18607. *Elaphoglossum*
- 18608. *Polypodium*
- 18611. *Struthiopteris*
- ✓18612. *Dryopteris paleacea* (Sw.)
- ✓18613. *Dryopteris*
- 18614. *Hymenophyllum*
- 18617. *Jamesonia*
- 18625. *Lycopodium*
- 18658. *Jamesonia*
- ✓18662. *Lycopodium*
- 18667. *Psilogramme*
- 18671. *Elaphoglossum*
- 18672. *Elaphoglossum*
- ✓18673. *Elaphoglossum*
- ✓18674. *Polystichum*
- ✓18675. *Dryopteris*
- ✓18678. *Psilogramme*
- 18682. *Lycopodium*
- ✓18702. *Dryopteris*
- ✓18703. *Elaphoglossum*
- ✓18704. *Dryopteris*
- ✓18705. *Polypodium*
- ✓18706. *Dicranopteris simplex* (Desv.) Maxon
- ✓18725. *Polypodium murorum* Hook.
- ✓18729. *Polypodium lanceolatum* L.
- ✓18739. *Polypodium*
- ✓18744. *Cheilanthes lendigera* (Cav.) Swartz
- ✓18751. *Fellaea ternifolia* (Cav.) Link
- ✓18753. *Dicranopteris*
- ✓18770. *Vittaria*
- 18771. *Hymenophyllum*
- 18773. *Hymenophyllum*
- ✓18775. *Dryopteris*
- 18780. *Polypodium*
- ✓18783. *Asplenium auritum* Swartz?
- ✓18802. *Cystopteris fragilis* (L.) Bernh.

- o 18813. Pteris
- ✓ 18817. Asplenium monanthes L.
- ✓ 18818. Equisetum bogotense H. B. K.
- ✓ 18823. Polypodium murorum Hook.
- ✓ 18824. Dryopteris paleacea (Sw.)
- ✓ 18826. Struthiopteris
- ✓ 18847. Pteris podophylla Swartz
- ✓ 18855. Dennstaedtia
- 18864. Hymenophyllum
- ✓ 18892. Struthiopteris
- ✓ 18900. Disranopteris flexuosa (Schrader.) Underw.
- ✓ 18924. Hypolepis
- ✓ 18926. Dryopteris paleacea (Sw.)
- ✓ 18945. Polypodium glaucophyllum Kunze
- ✓ 18949. Dicksonia
- ✓ 18959. Polypodium crassifolium L.
- ✓ 18960. Polypodium
- ✓ 18973. Pteris
- ✓ 18976. Trichomanes capillaceum L.
- ✓ 18977. Trichomanes montanum Hook.
- ✓ 18989. Dryopteris
- 18991. Elaphoglossum
- ✓ 18993. Polypodium
- ✓ 19014. Asplenium cristatum Lam.
- ✓ 19030. Dennstaedtia
- ✓ 19035. Pteris
- ✓ 19090. Pellaea flexuosa (Kaulf.) Link
- ✓ 19096. Selaginella *unioides* (Lieb.) A. Br.
- ✓ 19111. Dennstaedtia
- ✓ 19125. Dryopteris
- ✓ 19128. Asplenium
- ✓ 19145. Marattia Kaulfussii J. Sm.
- ✓ 19148. Asplenium
- ✓ 19149. Trichomanes
- ✓ 19153. Trichomanes montanum Hook.
- 19161. Trichomanes
- o 19162. Trichomanes montanum Hook.
- ✓ 19165. Polypodium glaucophyllum Kunze
- ✓ 19168. Diplazium
- ✓ 19173. Alsophila
- ✓ 19174. Pteris
- ✓ 19175. Polypodium glaucophyllum Kunze
- ✓ 19176. Diplazium
- ✓ 19179. Pteris
- ✓ 19183. Trichomanes ~~argenteum~~ *argenteum* *Com.* *Chd 1932*
- 19186. Elaphoglossum
- ✓ 19188. Alsophila
- ✓ 19189. Trichomanes *hymenophylloides* v.d. B.
- 19191. Asplenium *raddianum* *Gaud*
- ✓ 19198. Lycopodium
- ✓ 19199. Trichomanes capillaceum L.

- ✓19200. *Polypodium glaucophyllum* Kunze
- ✓19202. *Polypodium*
- ✓19206. *Equisetum bogotense* H. B. K.
- 19211. *Trichomanes diaphanum* Kunth. var. *eximium* (Kunze) Hieron.
- ✓19246. *Blechnum occidentale* L. (form)
- ✓19258. *Diplazium*
- ✓19259. *Pteris*
- 19261. *Selaginella univoides* (Lieb.) Bok.
- ✓19267. *Cyathoc.*
- ✓19271. *Asplenium auritum* Swartz
- ✓19272. *Polypodium fraxinifolium* Jacq.
- ✓19274. *Polypodium*
- ✓19275. *Dryopteris*
- ✓19276. *Dryopteris*
- ✓19277. *Hemitelia*
- ✓19278. *Polypodium fraxinifolium* Jacq.
- ✓19279. *Elaphoglossum*
- ✓19283. *Polypodium*
- ✓19284. *Polypodium*
- ✓19297. *Polypodium lanceolatum* L.
- ✓19300. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓19303. *Alsophila quadripinnata* (Gmel.) C. Chr.
- 19304. *Elaphoglossum*
- 19317. *Hymenophyllum*
- ✓19323. *Dryopteris*
- 19351. *Anemia phyllitidis* (L.) Swartz
- ✓19365. *Adiantum macrophyllum* Swartz
- ✓19367. *Dryopteris effusa* (Sw.) Urban
- ✓19368. *Hypolepis*
- ✓19373. *Diplazium*
- ✓19374. *Diplazium*
- ✓19375. *Tectaria*
- ✓19379. *Pteris*
- 19380. *Asplenium*
- ✓19381. *Asplenium*
- 19392. *Polypodium*
- ✓19395. *Dryopteris*
- ✓19416. *Polypodium thyssanolepis* A. Br.
- ✓19428. *Selaginella*
- ✓19434. *Elaphoglossum*
- ✓19436. *Elaphoglossum*
- ✓19453. *Adiantum*
- ✓19473. *Asplenium*
- ✓19483. *Dryopteris*
- ✓19492. *Diplazium*
- ✓19555. *Elaphoglossum*
- 19592. *Jamesonia*
- 19593. *Jamesonia*
- ✓19601. *Polypodium*
- ✓19605. *Lycopodium complanatum* L. var.

- ✓19607. Psilogramme
- 19609. Elaphoglossum
- 19613. Asplenium
- ✓19658. Cheilanthes lendigera (Cav.) Swartz
- ✓19660. Cystopteris fragilis (L.) Bernh.
- ✓19713. Elaphoglossum
- 19732. Dryopteris
- ✓19736. Dryopteris paleacea (Sw.)
- ✓19761. Polypodium lanceolatum L.
- 19789. Polypodium *leucolepis* Kl
- ✓19829. Alsophila quadripinnata (Gmel.) C. Chr.
- ✓19835. Cyathea
- ✓19852. Struthiopteris
- ✓19856. Dryopteris
- ✓19857. Cyathea
- ✓19858. Polypodium
- ✓19860. Hymenophyllum
- ✓19861. Cyathea
- ✓19876. Polypodium
- ✓19887. Dicksonia
- ✓19915. Polypodium
- ✓19927. Lycopodium Jussiaei Desv.
- ✓19929. Trichomanes *angustatum* Carm.
- ✓19930. Hymenophyllum
- ✓19931. Asplenium harpeodes Kunze
- 19933. Polypodium
- ✓19938. Culcita conifolia (Hook.) Maxon
- 19945. Asplenium
- ✓19949. Polystichum dubium (Karst.) Diels
- 19952. Trichomanes
- ✓19953. Dryopteris
- ✓19962. Cyathea
- 19968. Botrychium
- ✓19970. Dennstaedtia
- ✓19971. Dryopteris
- ✓19974. Asplenium
- ✓19983. Diplazium
- 19984. Trichomanes
- ✓19985. Polypodium
- 19988. Asplenium
- ✓19989. Polypodium
- ✓19996. Trichomanes
- ✓19997. Polypodium
- ✓19998. Dryopteris
- ✓19999. Polypodium
- ✓20062. Lycopodium
- ✓20069. Asplenium auritum Swartz

- ✓ 20077. *Polypodium*
- ✓ 20089. *Polytaenium lineatum* (Sw.) J. Sm.
- ✓ 20095. *Rhipidopteris peltata* (Sw.) Schott
- 20098. *Asplenium praemorsum* Swartz
- 20099. *Polypodium*
- ✓ 20100. *Cyathea*
- ✓ 20126. *Polypodium polypodioides* (L.) Watt
- ✓ 20127. *Anemia phyllitidis* (L.) Swartz
- ✓ 20159. *Polystichum*
- 20162. *Polypodium*
- ✓ 20168. *Polystichum platyphyllum* (Willd.) Presl
- ✓ 20171. *Asplenium monanthes* L.
- ✓ 20173. *Polypodium glaucophyllum* Kunze
- ✓ 20191. *Polypodium*
- 20196. *Dryopteris*
- ✓ 20209. *Histiopteris incisa* (Thunb.) J. Sm.
- ✓ 20210. *Polybotrya*
- ✓ 20217. *Asplenium*
- ✓ 20221. *Danaea*
- 20223. *Polypodium*
- ✓ 20230. *Asplenium*
- ✓ 20232. *Struthiopteris* sp. Juvenile
- ✓ 20233. *Trichomanes* *nigricum*
- ✓ 20239. *Asplenium Serra* L. & F.
- ✓ 20241. *Dryopteris*
- 20248. *Polypodium*
- 20249. *Polypodium*
- 20251. *Hymenophyllum*
- ✓ 20264. *Diplazium*
- ✓ 20267. *Dryopteris*
- ✓ 20268. *Asplenium*
- ✓ 20272. *Hypolepis*
- ✓ 20274. *Polypodium fraxinifolium* Jacq.
- 20275. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓ 20321. *Hymenophyllum*
- ✓ 20326. *Asplenium Serra* L. & F.
- 20335. *Asplenium*
- ✓ 20351. *Pteris podophylla* Swartz
- ✓ 20366. *Polystichum dubium* (Karst.) Diels
- ✓ 20373. *Asplenium harpeodes* Kunze
- ✓ 20377. *Polypodium*
- ✓ 20378. *Polypodium*
- ✓ 20382. *Pteris*
- ✓ 20384. *Polytaenium lineatum* (Sw.) J. Sm.

- ✓20385. *Dryopteris*
- ✓20387. *Dryopteris paleacea* (Sw.)
- ✓20396. *Marattia*
- ✓20397. *Diplazium*
- ✓20402. *Selaginella* *Poeppigiana* (Hook & Grev.) Spring.
- ✓20406. *Polypodium*
- ✓20407. *Cyathea*
- ✓20411. *Dryopteris*
- ✓20414. *Dennstaedtia*
- 20416. *Asplenium*
- ✓20420. *Asplenium harpeodes* Kunze
- 20424. *Trichomanes* *psycidiferum* K.
- ✓20428. *Polytaenium lineatum* (Sw.) J. Sm.
- ✓20429. *Asplenium*
- ✓20430. *Asplenium* Serra L. & F.
- ✓20437. *Elaphoglossum*
- ✓20438. *Polystichum dubium* (Karst.) Diels
- ✓20440. *Diplazium*
- ✓20441. *Asplenium hastatum* Kl.
- ✓20444. *Dryopteris*
- ✓20445. *Diplazium*
- 20448. *Polystichum*
- 20449. *Hymenophyllum*
- ✓20453. *Dryopteris*
- ✓20462. *Dennstaedtia*
- ✓20475. *Elaphoglossum*
- ✓20479. *Polypodium lanceolatum* L.
- ✓20519. *Struthiopteris*
- ✓20614. *Alsophila quadripinnata* (Gmel.) C. Chr.
- ✓20627. *Polypodium*
- ✓20628. *Psilogranne*
- 20638. *Polypodium*
- 20639. *Polypodium*
- ✓20644. *Histiopteris incisa* (Thunb.) J. Sm.
- 20645. *Polypodium*
- 20649. *Lycopodium*
- 20660. *Hymenophyllum*
- ✓20666. *Polypodium*
- ✓20670. *Dicksonia*
- ✓20672. *Hypolepis*
- ✓20681. *Struthiopteris*
- ✓20684. *Dryopteris*
- ✓20685. *Polypodium*
- 20686. *Polypodium*
- ✓20689. *Elaphoglossum*
- ✓20690. *Calceolaria conifolia* (Hook.) Maxon
- ✓20691. *Hymenophyllum*
- ✓20697. *Dryopteris paleacea* (Sw.)

- ✓ 20713. Elaphoglossum
- ✓ 20719. Cystopteris fragilis (L.) Bernh.
- ✓ 20729. Elaphoglossum
- ✓ 20742. Polypodium glaucophyllum Kunze
- 20775. Elaphoglossum
- ✓ 20788. Doryopteris palmata (Willd.) J. Sm.
- 20792. Pteris quadriaurita Retz
- 20798. Pityrogramma calomelaena (L.) Link
- 20805. Asplenium
- ✓ 20811. Dryopteris
- 20813. Adiantopsis radiata (L.) Fée
- 20814. Blechnum
- 20818. Adiantum
- ✓ 20934. Selaginella *Lindigii* A. Br.
- ✓ 20935. Cheilanthes
- ✓ 21133. Anemia
- 21149. Polypodium *meridense* Kl.
- ✓ 21150. Polypodium
- ✓ 21151. Asplenium hastatum Kl.
- ✓ 21152. Polypodium fraxinifolium Jacq.
- 21153. Polypodium
- 21155. Anemia
- 21165. Dryopteris
- 21169. Asplenium
- 21171. Hymenophyllum
- 21177. Botrychium *ecutarium* (Sw.) Sw.
- 21180. Jamesonia
- 21181. Elaphoglossum
- ✓ 21182. Alsophila quadripinnata (Gmel.) C. Chr.
- ✓ 21196. Elaphoglossum
- 21198. Equisetum bogotense H. B. K.
- 21211. Cheilanthes

Peperomia

- ✓ 14648. P. santa-martae ~~ex~~ *Jel.*
✓ 15047. obtusifolia *A. Dietr.*
✓ 15208. albidiflora *CDC.*
-✓ 15316. santoseyaⁿ n. sp.
-✓ 15345. albidiflora
✓ 15502. discilimba *Jel.*
-✓ 15552. Albert-Smithii n. sp.
✓ 15714. Paramillo *Jel.*
✓ 15729. " n. sp.
✓ 15819. dissociabilis n. sp.
✓ 16028. transfigurata n. sp.
✓ 16055. praematura n. sp.
✓ 16199. santanderana *Jel.*
✓ 16259. lebrijana n. sp.
✓ 16282. santanderana n. sp.
-✓ 16292. pereskiaefolia bucamarandana n. v. *g*
✓ 16352. jeboncil^{en}lipsis n. sp.
-✓ 16353. commixa n. sp.
-✓ 16481. galioides suratana n. var.
-✓ 16482. reflexa^{a. Dietr.} sens. lat.
-✓ 16558. l^entiginosa n. sp.
-✓ 16564. suratana *Jel.*
-✓ 16568. discilimba n. sp.
✓ 16580. bogotaⁿfia
✓ 16615. suratana n. sp.

Peperomia

- ✓16655. aterrime n. sp.
- ✓16656. adscendens *C. DC.*
- 16815. varigera n. sp.
- ✓16975. condicta n. sp.
- ✓17001. reflexa ^{*u. Dietr.*} sens. lat.
- ✓17016. ambigua n. sp.
- ✓17078. (obtusifolia f.
(pteropoda
- ✓17103. Rivicola n. sp.
- ✓17287. vetasana n. sp.
- ✓17346. Paramillo *Ful.*
- ✓17419. "
- ✓17711. "
- ✓17813. tolerabilis n. sp.
- ✓17922. ~~paramilla~~ *Ful.*
- ✓18091. bajana n. sp.
- ✓18475. ~~paramilla~~ *Ful.*
- ✓18512. "
- ✓18750. ^{*g*}gapioides *HBK*
- ✓18946. chartana n. sp.
- ✓18963. albidiflora
- ✓19016. microphyllaphora n. sp.
- ✓19185. san-martinensis n. sp.
- ✓19363. piperata n. sp.
- ✓19364. ^{*a*}collopsa n. sp.
- ✓19383. terraegap^{*u*}dens n. sp.
- ✓19408. robleana n. sp.
- ✓19417. obtusifolia *A. Dietr.*
- ✓19456. tonana n. sp.

Peperomia

- ✓19472. clavulispica n. sp.
- ✓19540. Paramillo ^{Jul.} ~~ma~~
- ✓19541. "
- ✓19910. tejana n. sp.
- ✓19955. pamploⁿyana n. sp.
- ✓20049. toledoana n. sp.
- 20082. pteropoda n. sp.
- ✓20092. reflexa ^{a. Dietr.} sens. lat.
- ✓20124. quadrifolia HBK
- ✓20170. tapatana n. sp.
- ✓20224. adscendens C. DC.
- ✓20367. losoensis n. sp.
- ✓20368. pamploⁿyana
- ✓20442. Albert-Smithii ^{Jul.}, v. pilinervia ^{Jul.} n. var. (ex latu ^{lib.})
- ✓20447. losoensis ^{Jul.}
- ✓20469. ^{o. Tu} ~~p~~aptifolia n. sp.

POTHOMORPHE

- o 14287. P. ~~pellat~~ *pellatum* (L.) Miq.
 -√14733. " " "
 √16519. " ^u ~~majors~~ (C.DC.).

PIPER

- √14193. P. ^{eu} ~~lpp~~ *aeopus* n. sp.
 -√14194. *catalpaefolium* HBK
 √14268. "
 √14298. ^v *riale* n. sp.
 √14314. *tuberculatum glabratum*
 -√14413. *smilacifolium* HBK
 √14799. ^{oe} ~~di~~ *oscræfolium*
 -√14875. *Kalbreyeri* n. sp.
 -√14876. ^e *wilch* ~~sense~~ n. sp.
 -√14910. ^{oe} ~~di~~ *oscræfolium*
 √14943. *tuberculatum glabratum*
 √15026. *naevifolium* n. sp.
 √15264. *santa-martanum*
 -√15265. *productispicum* n. sp.
 √15363. *santosense* n. sp.
 √15379. *obrutum* n. sp.
 √15421. *naevifolium minor* B.V.
 -√15445. *pedecuestanum* n. sp.
 -√15498. *exserens* sens. lat.
 -√15509. *pedemontanum* n. sp.
 √15516. *salutare* n. sp.
 -√15943. *Monticola* n. sp.

Piper

- ✓16051. discriminatum n. sp.
- ✓16137. inhonestum n. sp.
- ✓16208. bucamanganum *Jub.*
- ✓16212. granulosum *R. & P.*
- ✓16216. " "
- ✓16240. glabrescentipedunculum n. sp.
- ✓16245. bucamanganum n. sp.
- ✓16297. granulosum *R. & P.*
- ✓16320. cinereum glabricaul^e n. v.
- ✓16327. ^elibrijanum n. sp.
- ✓16358. commixtum ⁱⁿped. ("medium").
- ✓16388. jaboncillanum n. sp.
- ✓16406. semivaginatatum n. sp.
- ✓16497. salutare brevispicum *n.v.*
- ✓16517. " "
- ✓16559. porricolor n. sp.
- ✓16575. ^uleptostachyum n. sp.
- ✓16586. granulosum *R. & P.*
- ✓16592. Fabrum
- ✓16660. suratanum *Jub.*
- ✓16671. jejunum n. sp.
- ✓16694. ^uleucostachyum brevipetiolum *n.v.*
- ✓16720. ovalilimbus *Jub.*
- ✓16775. scabridulum n. sp.
- ✓16780. Clivicola n. sp.
- ✓16793. pseudo-Bredemeyeri n. sp.
- ✓16953. ovalilimbus *Jub.*
- ✓17049. mollitum n. sp.
- ✓17057. hispidibracteum n. sp.

- ✓17127. *Piper* ovalilimbus n. sp.
- ✓18028. " "
- ✓18119. bajanum n. sp.
- ✓18283. deform^e n. sp.
- ✓18314. san-vicentense *Jub.*
- ✓18767. rugatum n. sp.
- ✓18844. santanderense *Jub.*
- ✓18857. mollicellum n. sp.
- ✓18873. extextum n. sp.
- ✓18907. santanderense n. sp.
- ✓18920. fastiditum *Jub.*
- ✓18922. santanderense *Jub.*
- ✓18984. san-vicentense n. sp.
- 19001. fastiditum n. sp.
- ✓19093. chartanum n. sp.
- ✓19102. fastiditum *Jub.*
- ✓19146. nemoris n. sp.
- ✓19160. san-martinense n. sp.
- ✓19181. " "
- not in herbar.* 19360. Albert-Smithii n. sp.
- ✓19373. robleanum n. sp.
- ✓19662. ovalilimbus *Jub.*
- ✓19689. " ^m _{finof} *Jub.*
- ✓19827. pamplonanum n. sp.
- ✓19833. toledanum n. sp.
- ✓20006. teja-mesmeanum n. sp.
- ✓20151. tapatanum n. sp.
- ✓20331. eoum n. sp.
- ✓20337. culaganum n. sp.

Piper

- ✓ 20338. pendentispicum n. sp.
- ✓ 20350. perverrucosum n. sp.
- ✓ 20478. provulgatum n. sp.
- ✓ 20436. losoense n. sp.
- ✓ 20720. pam^lponanum *Hub.*
- ✓ 20776. ocellatum n. sp.
- ✓ 20881. santa-martanum
- ✓ 20919. chinacotanum n. sp.
- ✓ 20927. granulosum *R. B.*
- ✓ 20953. tuberculatum glabratum
- ✓ 20961. asperif^usculum *H. B. K.*
- ✓ 21004. tuberculatum glabratum.

15 nos. marked "-" are among unicates not sent to Prof. Sauer because already named by him.

COLOMBIAN PIPERACEAE OF THE KILLIP-SMITH COLLECTION REPRESENTED
AT THE GRAY HERBARIUM, BUT NOT IN THE U. S. NAT. HERB.

14962 - ✓	18277 - ✓
15292 - ✓	18354 - ✓
- 15324 - ,	18723 - ✓
- 15975 - ✓	18788 - ✓
16035 - ✓	18821 - ✓
16046 - , ✓	19163 - ✓
16162 - , ✓	19166 - ✓
16293 - ✓	19360 - ✓
- 16321 - ,	19926 - ✓
	19956 - ✓
16354 - ✓	19973 - ✓
- 16435 - ,	19995 - ✓
16465 - ✓	20102 - ✓
16642 - ✓	20161 - ✓
- 16651 - ,	20178 - ✓
- 16725 - ,	20215 - ✓
16726 - ✓	- 20412 - ✓
16741 - ✓	20419 - ✓
- 17100 - ,	- 20439 - ✓
17167 - ✓	- 20442 - ✓
- 17278 - ,	20640 - ✓
17286 - ,	20781 - ✓
18120 - ✓	20955 - ✓
18121 - ✓	- 21030 - ,
- 18125 - ,	

Sent by Express
33 pk. Nov. 14, 1928

15 " named
33

Killip & Smith specimens
seen only in the Gray Herbarium.

Piper.

- ✓14962. *Piper tamboreense* n. sp.
✓14962(a) " *narinyense* n. sp.
✓16465. " *scabridilimum* n. sp.
✓16726. " *suratana*ⁱⁿ ined.
✓16741. " *expansum* n. sp.
✓17167. " *lienosinodum* ined.
✓20781. " *granulatifolium* n. sp.

Porthomorphe.

- ✓20955. *Porthomorphe peltata* (L.) Miq.

Peperomia

- ✓15292. *Peperomia alata* sens. lat.
16035. " *hispidulifolia* ined.
✓16046. " *oblanceaelimba* ined.
✓16162. " *carlosiana* C. DC.
✓16293. " *magnoliaefolia* sens. lat.
✓16354. " *pereskiaefolia*
✓16642. " *hyalostipes* n. sp.
✓18120. " *rivuligaudens* n. sp.
✓18121. " *dignota* n. sp.
✓18277. " *submissa* n. sp.
✓18354. " *fuscopunctulata ternata* n. var.
✓18723. " *fuscopunctulata* n. sp.
✓18788. " *oblanceaelimba* ined.
✓18821. " *paramillana* ined.
✓19163. " *pereskiaefolia santa-martae* C. DC.

- ✓19166. Peperomia adscendens C. DC.
✓19956. " ^vvividi-violacea ined.
✓19973. " mesmeⁿya n. sp.
✓19995. " oblanceaelimba ined.
✓20102. " undulatifolia n. sp.
✓20161. " lustrica n. sp.
✓20178. " subquadrifolia ined.
✓20215. " pica-picana n. sp.
✓20419. " rea n. sp.
✓20640. " haticoana n. sp.

These nos. are in H. H. under these determinations made by
C. A. W., though he was
not officially examining Killip & Smith Columbia
this collection.

- ✓ 20077 *Polypodium fraxinifolium* Jacq. aff. ✓
✓ 15957 " " "
✓ 15057 " " " aff.
✓ 20191 " *pectinatifolium* Lindl.
✓ 15642 " *moniliforme* Lag.
✓ 16902 " *pectinatum* L.
✓ 16438 " *fraxinifolium* Jacq.
✓ 16569 " *pectinatum* L.
✓ 19284 " " "
✓ 16582 " *adnatum* Kze.

Killip & Smith Columbia

- ✓ 15607 *Polypodium murorum* Hook.
✓ 17345 " " "

Jan. 23, 1930.

Kellip & Smith Collection

- ✓ 19997 *Polypodium semitransultum* Kl.
✓ 17836 " " "
✓ 19202 " " "
✓ 18700 " " "
✓ 20377 " *leucostictum* Kze.
✓ 16622 " *repens* Nutt.
✓ 16985 " *Phyllitidis* L.
✓ 15011 *Arenaria villosa* N. & B. ex Willd.

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C.

October 22, 1928.

Dr. B. L. Robinson,
Gray Herbarium of Harvard University,
Cambridge, Massachusetts.

Dear Doctor Robinson:

Doctor Trelease has named the Piperaceae of the Killip-Smith collection which were not represented in his duplicate set, but which were in ours. There still remain the true unicates occurring in the Gray Herbarium set, and which I believe you are to send him.

Sincerely yours,



Ellsworth P. Killip
Associate Curator,
Division of Plants.

Enclosure.

Peperomia

- ✓ 15324 P. nefanda n. sp.
- ✓ 15502 P. discilimba
- ✓ 15608 P. Paramillana Trel.
- ✓ 15975 P. Causaria n. sp.
- ✓ 16435 P. transformata n. sp.
- ✓ 16616 P. chartana heterophylla n. v.
- ✓ 16637 P. subquadrifolia ined.
- ✓ 17178, ~~17100~~ P. microphylla?
- ✓ 17286 P. egregia n. sp.
- ✓ 18328 P. obtextibacca n. sp.
- ✓ 19008 P. discistyla
- ✓ 19926 P. pamplonana
- ✓ 20442 P. Albert-Smithii pilinervia n. v.
- ✓ 20439 P. rasa n. sp.
- ✓ 17100. P. immolata Trel. n. sp.

Piper

- ✓ 15061 P. pervulsum n. sp.
- ✓ 15144 P. epunctulatifolium n. sp.
- ✓ 16321 P. patretum n. sp.
- ✓ 16651 P. porricolor
- ✓ 16722 P. leucostachyum
- ✓ 16725 P. suratanum pallens n. v.
- ✓ 18125 P. Monticola
- ✓ 20412 P. abjectum n. sp.
- ✓ 20443 P. tenebricum n. sp.
- ✓ 21030 P. tuberculatum (Venezuela).

Corrections to previous list of determinations of
Killip-Smith Collection

- ✓ 15673. Valeriana stenophylla Killip (not 15675)
- ✓ 16574. Lantana trifolia L. (not 16564)
- ✓ 19011. Piper fastidium Trel. (not 19001)
- ✓ 15714, ✓ 15729, ✓ 17346, ✓ 17419, ✓ 17711, ✓ 17922, ✓ 18475, ✓ 18512, ✓ 19540.
- ✓ 19541/ Peperomia paramillana Trel/ (rather than P. paramillo)

Determinations made at the Gray Herbarium by L. B. Smith

Hitchcock

- 16,932 *Xiphidium coeruleum* Aubl.
 17,596 *Justicia secunda* Vahl
 20,406 *Guzmania lingulata* (L.) Mez, forma
 21,120 *Aechmea pyramidalis* Benth.

Killip & Smith

- 15,170 *Anthurium scandens* (Aubl.) Engl.
 15,177 *Cyperus Lagunetto* Steud.
 15,291 *Guzmania sphaeroidea* André ex Mez
 15,326 *Tillandsia Schultzei* Harms
 17,115 " *heterandra* André
 18,948 " *Restrepoana* André
 18,990 *Guzmania mitis* L. B. Smith, n. sp.
 20,195 " " " " " " "

Pennell et als. (Colombia)

- 2423 *Columnnea aurantiaca* Dcne.
 5059 *Guzmania compacta* Mez
 5082 " *Eduardi* André
 5747 *Thecophyllum capituligera* (Griseb.) L. B. Smith
 5804 *Thecophyllum hygrometricum* (André) Mez
 9223 *Tillandsia complanata* Benth.
 9362 *Guzmania gloriosa* André 11592 *Guzmania gracilior* (André) Mez
 11783 *Sodiorea dissitiflora* André
 12576 *Greigia sphacelata* (R. & P.) Regel
 13675 *Stevia cuzcoensis* Hieron.? (Det. B. L. Robinson)
 11736 { *Vriesia paniculata* (L.) Mez (Pennell)
 " *Alfarovii* Mez (Killip)

Pittier

- 7161 *Cyphomandra caracasana* Sendtn.
 7469 *Gloxinia pallidiflora* Hook.
 7593 *Pothomorphe peltata* (L.) Miq.
 7627 *Ruellia Humboldtiana* Kl.
 7508 *Corytholoma elatius* (HBK.) Fritsch.
 7757 *Myrcia paivae* Berg.
 8121 *Monopyle leucantha* Moritz ex Benth.
 8123 " " " " "
 8212 *Gloxinia pallidiflora* Hook.
 9091 *Bromelia humilis* Jacq.

Rose et al

- 22588 *Ruellia ventricosa* HBK.
 23283 *Amicia glandulosa* HBK.

Killip & Smith Stevias determined by B. L. Robinson.

- 21,673 *Stevia Weberbaueri* Robinson
 21,768 " *Macbridei* Robinson
 22,288 " *Herrerae* Robinson

- ✓14600. *Azolla filiculoides* Lam.
 ✓14863. *Adiantum tomentosum* Kl.
 ✓14867. *Trichomanes Ankersii* Parker
 ✓15109. *Dicranopteris flexuosa* (Schrad.) Underw.
 ✓15110. " *lanuginosa* (Morici.) Maxon
 ✓16207. *Adiantopsis chlorophylla* (Sw.) Fée
 ✓16360. " " " "
 ✓16369. *Polypodium phyllitidis* L.
 ✓16638. *Trichomanes diaphanum* Kth. var. *eximium* (Kunze) Hieron.
 ✓18924. *Hypolepis viscosa* Karst.
 ✓19211. *Trichomanes diaphanum* Kunth var. *eximium* (Kunze) Hieron.
 ✓19368. *Hypolepis Stuebelii* Hieron.
 ✓19929. *Trichomanes tenerum* Spreng.
 ✓19952. " *diaphanum* Kunth var. *eximium* (Kunze) Hieron.
 ✓19968. *Botrychium cicutarium* (Sav.) Sw.
 ✓19996. *Trichomanes tenerum* Spreng.
 ✓20233. " *rigidum* Sw.
 ✓20272. *Hypolepis viscosa* Karst.
 ✓20424. *Trichomanes pyxidiferum* L.
 ✓20440. *Diplazium flavescens* (Mett.) Christ
 ✓20672. *Hypolepis viscosa* Karst.
 ✓21177. *Botrychium cicutarium* (Sav.) Sw.
 22161. *Notholaena flavens* (Sw.) Moore
 22256. " *bonariensis* (Willd.) C. Chr.
 22363. *Diplazium brasiliense* Rosenst.
 22386. *Polypodium lapathifolium* Poir.
 22401. " " "
 22406. *Trichomanes tenerum* Spreng.
 ✓22482. *Pityrogramma ferruginea* (Kunze) Maxon
 22654. *Cyathea cuspidata* Kunze
 22667. *Pityrogramma ochracea* (Presl) Domin
 22697. " *austroamericana* Domin
 22925. *Adiantum latifolium* Lam.
 23379. *Lygodium polymorphum* (Cav.) H.B K.
 23439. " " " "
 23495. *Pityrogramma ochracea* (Presl) Domin
 23553. *Diplazium flavescens* (Mett.) Christ
 23781. *Polypodium trichiatum* Rosenst.
 23801. *Pityrogramma austroamericana* Domin

Killip Smith ferns
det. Maxon.

- 23995. *Hemitelia escuquensis* Karst.
 24014. " " "
 24462. *Diplazium divergens* Rosenst.
 24492. *Trichomanes tenerum* Spreng.
 24536. *Diplazium arboreum* (Willd.) Presl
 24541. *Alsophila floribunda* Hook.?
 24572. *Hemitelia escuquensis* Karst.
 24579. *Alsophila floribunda* Hook.?
 24643. " *conjugata* Spruce
 24645. " *floribunda* Hook.?
 24984. *Pityrogramma austroamericana* Domin
 25015. *Lygodium polymorphum* (Cav.) H.B.K.
 25268. *Polypodium trichiatum* Rosenst.
 25309. *Trichomanes sphenoides* Kunze?
 25421. *Pityrogramma ochracea* (Presl) Domin
 25471. *Diplazium procarum* Sod.
 25499. *Trichomanes tenerum* Spreng.
 25549. " " "
 25709. *Doryopteris lomariacea* (Kunze) Kl.
 25760. *Hypolepis parallelogramma* (Kunze) Presl
 26169. *Alsophila lasiosora* Mett. !
 26374. " " "
 26555. *Trichomanes Ankersii* Parker
 26592. " *sphenoides* Kunze
 26647. *Polypodium trichiatum* Rosenst.
 26781. *Diplazium Eggersii* Sod.
 26975. *Alsophila microdonta* Desv.
 27070. " " "
 27117. " *procera* (Willd.) Desv.
 27120. " " " "
 27256. " *microdonta* Desv.
 27332. " *procera* (Willd.) Desv.
 27788. *Trichomanes sphenoides* Kunze
 27808. *Polypodium trichiatum* Rosenst.
 27900. *Anetium citrifolium* (L.) Splitg.
 28072. *Alsophila procera* (Willd.) Desv.
 28189. " " " "
 28272. " " " "
 28496. " " " "
 28642. *Polypodium trichiatum* Rosenst.
 28758. *Alsophila procera* (Willd.) Desv.
 28819. *Polypodium phylliditis* L.
 28872. *Trichomanes sphenoides* Kunze
 28881. *Anetium citrifolium* (L.) Splitg.
 28911. *Diplazium Eggersii* Sod.
 28951. *Polytaenium cayennense* (Desv.) Benedict
 29207. *Hypolepis parviloba* Fée
 29219. *Dicranopteris bifida* (Willd.) Maxon
 29377. *Alsophila procera* (Willd.) Desv.
 29522. *Trichomanes Hookeri* Presl
 29612. *Alsophila procera* (Willd.) Desv.

K.S.

- ✓14292. *Lygodium polymorphum* (Cav.) H. B. K.
- ✓14299. *Dryopteris subtetragona* (Link) Maxon
- ✓14358. " " " "
- ✓14837. *Lindsaya falcata* Dry.
- ✓14868. *Leptochilus guianensis* (Aubl.) C. Chr.?
- ✓15011. *Anemia villosa* H. & B.
- ✓15035. *Lindsaya stricta* (Sw.) Dry.
- ✓15129. " *horizontalis* Hook.
- ✓15130. " " "
- ✓15150. *Vittaria stipitata* Kunze
- ✓15271. " " "
- ✓15508. *Polypodium sinerascens* Lindm.
- ✓15697. *Asplenium cladolepton* Fée
- ✓15854. *Polypodium strictissimum* (Hook.) Hieron.
- ✓15904. *Dicranopteris velata* (Kunze) Maxon
- ✓15910. *Polypodium meridense* Kl.
- ✓15929. *Asplenium cladolepton* Fée
- ✓15948. " *nastatum* Kl.

Killip & Smith
 determinations from
 Dr. Maxon

~~Killip & Smith~~

Killip & Smith, Colombia.

19371. ✓ *Besleria* *acutifolia* Benth

19854, 20024. ✓ *B. nitens* Fritsch

South American Ferns-2

W. H. S.

- ✓17151. *Asplenium cladolepton* Fée
- ✓17259. " " "
- ✓17712. " " "
- ✓17757. " " "
- ✓17768. " " "
- ✓18197. " " "
- ✓18428. " " "
- o✓18495. " " "
- ✓18507. " *triphyllum* Presl?
- ✓18516. " *cladolepton* Fée
- ✓18518. *Polypodium cinerascens* Lindm.?
- ✓18770. *Vittaria Ruiziana* Fée
- ✓19202. *Polypodium semihirsutum* Kl.
- ✓19613. *Asplenium cladolepton* Fée
- ✓19789. *Polypodium leucolepis* Kl.
- ✓19974. *Asplenium hastatum* Kl.
- ✓20627. *Polypodium meridense* Kl.
- o✓20805. *Asplenium* sp. Near *A. cristatum* Lam.
- ✓20811. *Dryopteris subtetragona* (Link) Maxon
- ✓21149. *Polypodium meridense* Kl.
- o✓21169. *Asplenium cladolepton* Fée
- Peru 22065. " *triphyllum* Presl
- 22473. *Polypodium cinerascens* Lindm.
- 22529. *Dryopteris opposita* (Vahl) Urban
- 22628. *Dryopteris Bangii* C. Chr.?
- 22725. " *Warmingii* C. Chr.
- 22782. *Asplenium abscissum* Willd.
- 22835. " " "
- 22838. " sp. Near *A. cristatum* Lam.
- 22918. " *erectum* Bory (sens lat.)
- 23071. *Dryopteris opposita* (Vahl) Urban
- 23632. " *Warmingii* C. Chr.
- 23660. " " "
- 23728. " " "
- 23796. *Polypodium plumula* H. & B.
- 23863. *Diplazium*
- 23898. *Polypodium fraxinifolium* Jacq.
- 23966. *Lindsaya falcata* Dry.
- 23973. *Diplazium pinnatifidum* Kunze
- 24319. *Elaphoglossum tectum* (H. & B.) Moore
- 24587. *Vittaria stipitata* Kunze
- 24698. *Lindsaya falcata* Dry.
- 24925. *Diplazium arboreum* (Willd.) Presl
- 25047. *Polypodium plumula* H. & B.
- 25169. " " "
- 25184. *Leptochilus Lindigii* (Mett.) C. Chr.
- 25195. *Dryopteris opposita* (Vahl) Urban
- 25233. " " " "
- 25246. *Tectaria martinicensis* (Spreng) Copel.
- 25332. *Dryopteris opposita* (Vahl) Urban (form)
- 25351. *Asplenium cristatum* Lam.?
- 25382. *Polypodium plumula* H. & B.
- 25505. *Asplenium abscissum* Willd.
- 25522. *Lindsaya horizontalis* Hook.

Wm

25534. *Struthiopteris ensiformis* (Liebm.) Broadh.
 25552. *Vittaria Gardneriana* Fee
 25560a. *Asplenium tricholepis* Rosenst.
 25939. *Polypodium meridense* Kl.
 25970. *Asplenium integerrimum* Spreng.
 26158. *Leptochilus guianensis* (Aubl.) C. Chr.
 26162. *Lindsaya falcata* Dry.
 26516. *Tectaria martinicensis* (Spreng.) Copel.
 26572. *Leptochilus guianensis* (Aubl.) C. Chr.
 26633. *Asplenium abscissum* Willd.
 26679. " *integerrimum* Spreng.
 26754. *Stenochlaena marginata* (Schrad.) C. Chr.
 26769. *Leptochilus oligarchicus* (Baker) C. Chr.
 27021. *Lindsaya lancea* (L.) Mett.
 27665. *Dryopteris Fraseri* (Mett.) Kuntze!
 27697. " " " " !
 27826. " *dentata* (Forsk) C. Chr. (form)
 27847. *Lygodium polymorphum* (Cav.) H. B. K.
 28478. *Dryopteris brachyodus* (Kunze) Kuntze
 28495. *Leptochilus serratus* (Kuhn) C. Chr. !!
 28608. *Asplenium serratum* L. (A small form)
 28615. " " " (form)
 28822. " " " (A small form)
 29140. *Danaea elliptica* J. E. Sm.
 29348. *Asplenium haplophyllum* Domin
 29437. *Dryopteris megalodus* (Schk.) Urban
 29674. *Leptochilus guianensis* (Aubl.) C. Chr.
 29721. *Dryopteris megalodus* (Schk.) Urban
 30178. *Lindsaya lancea* (L.) Mett.
 30316. *Leptochilus meniscioides* (Willd.) Presl
 30339. *Lygodium volubile* Sw.
 30350. *Polytaenium cayennense* (Desv.) Benedict
 30676. *Lindsaya lancea* (L.) Mett.
 30698. *Asplenium angustum* Sw.

Wm

Killip & Smith Ferns named at Berlin

- | | | | |
|--------|-------------|-----------------|------------------------|
| ✓14830 | Selaginella | pedata | Klotsch. |
| ✓14843 | " | " | " |
| ✓14872 | " | jungermannoides | (Gaud.) Spring |
| ✓15484 | " | Hoffmannii | Hieron. |
| ✓16024 | " | radiata | (Aubl.) Bak. |
| ✓16567 | " | mnioides | (Lieb.) A. Br. |
| ✓17012 | " | Bangii | Hieron.? |
| ✓18114 | " | Poeppigiana | (Hook. & Grev.) Spring |
| ✓18280 | " | radiata | (Aubl.) Bak. |
| ✓18348 | " | " | " |
| ✓18357 | " | Poeppigiana | (Hook. & Grev.) Spring |
| ✓19096 | " | mnioides | (Lieb.) A. Br. |
| ✓19261 | " | " | " |
| ✓20402 | " | Poeppigiana | (Hook. & Grev.) Spring |
| ✓20934 | " | Lindigii | A. Br. |

9

Besleria

Killip & Smith, Colombia.

- o/15961. salicifolia Fritsch
✓19324. Kalbreyeri Fritsch
2✓19371. solanoides H.B.K.
" 19854. reticulata var. venosa Morton type
" 20024. " " " " "

Killip & Smith, Peru.

22666. variabilis f. barbatula Morton
24086. peruviana var. occulta Morton type
24718. racemosa Morton?
25293. variabilis f. pallida Morton type
25785. racemosa Morton?
25817. " " "
25822. " " "
25965. trichiata Morton type
26008. racemosa Morton?
26100. tetragularis Ruiz
26127. variabilis f. barbatula Morton type
26332. " " " "
26761. racemosa Morton?
26935. ignea var. lorentensis Morton
27353. " " " "
28337. " " " " type
28418. " " " "
29489. " " " "
29637. " " " "
29814. " " " "
29855. " " " "

W. A. Gray

Killip-Smith (Colombia)

o 21215. H. mexicana C. & S.

h ✓ 20004. H. "

h ✓ 16932. H. "

h ✓ 19207. H. "

h ✓ 16571. H. "

h ✓ 16023. H. grossulariaefolia Rusby? (leaves only)

~~22323, H. bonplandii glabra Mathias~~

~~23932. H. " "~~

✓ Rose 23882. H. " truncatiloba Mathias

✓ Rose 22596. H. " "

Hydrocotyle

Det. Mathias

from
E.P. Killip

Killip & Smith, Colombia
(Reported by U.S.N.M. Jan. 26, 1937)

Cestrum det. C.V.Morton; others as indicated

- ✓14259. *Martinella obovata* (H.B.K.) Bur. & Sch. (Det. Sandwith)
- ✓15520. *Oxalis oblongiformis* R. Knuth (Det. Knuth)
- ✓15839. *Cestrum cuneatum* Francey
- ✓16075. *Oxalis oblongiformis* R. Knuth (type)
- ✓18174. *Cestrum buxifolium* H.B.K.
- ✓18296. " *colombianum* Francey
- ✓18877. *Befaria glauca setosa* Mansf. & Sleumer (Det. Sleumer)
- ✓19067. *Petrea colombiana* Moldenke (Det. Moldenke)
- ✓19465. *Oxalis oblongiformis* R. Knuth (Det. Knuth)
- ✓20001. *Espeletia neriifolia* (H.B.K.) Sch. Bip. (Det. A.C.Smith)
- ✓20347. *Saurauia pseudoxanthotricha* Busc.? (Det. Sleumer)
- ✓20417. *Cestrum strigillatum* R. & P.
- ✓20499. " *moritzii* Dunal
- ✓20663. *Plutarchia coronaria* (Linden) A.C.Smith (Det. A.C.Smith)
- 22199. *Cavendishia martii* (Meissn.) A.C.Smith (not *C. paniculata*;
det. A.C.Smith)
- 22432. " " " " " " "

DIOSCOREA; GERANIACEAE, AND OXALIDACEAE, Det. R. Knuth.
February, 1931.

Killip & Smith--Colombia (additional determinations)

- ✓14964. *Dioscorea narinensis* Knuth (type)
- ✓ 15466. *Biophytum santanderense* Knuth (type)
- " 15705. *Geranium santanderiense* Knuth
- ✓17275. " "
- " 18538. " "
- o 18648. " "

- Killip & Smith 26256, 26675, 26662, 26491, 27122, 27276, 27304, 28551,
 29796, 29950 *Carpotroche longifolia* (P. & E.) Benth.
 29836, 29986 *Casearia lasiosperma* Triana (ex descr.)
 27113, 29900 *Patrisia pyrifera* L.C.Rich.
 26448, 28452, 28630, 28659, 29295, 29517,
 29578, and 29692 *Casearia fasciculata* (R. & P.) Sleumer
 28914 *Hasseltia laxiflora* (Benth.) Eichl.
 29783 *Lunania cuspidata* Warburg
 27736, 28015, 28753 *Casearia commutata* Briquet
 28070, 28806 *Prockia* sp. aff. *septemnervia* Sprengel
 23482, 26436 *Banara guianensis* Aubl.
 28314 *Casearia macrophylla* Vahl
 28422 *Mayna odorata* Aubl.
 26393 " *echinata* Spruce
 27666 *Casearia pavoniana* Sleumer (vel *valdee affinis*)
 27282 " *javitensis* HBK.
 27375, 28460 *Casearia decandra* Jacq.
 26977 *Casearia arborea* (L.C.Rich.) Urb. (sens. lat.)

South American *Flacourtiaceae*, det. Sleumer, 1934

The names on various sheets disagree with the names recently distr. from the National Herbarium, and only such names are here included, together with certain sheets not reported by the Nat. Herb.

- Killip & Smith, 26393 *Mayna echinata* Spruce (disagreement)
 29923 Not *Flacourtiaceae* (")

13

- Killip & Smith, Colombia

Det. E. P. Killip unless otherwise noted, January 1944

- 14363. *Heliconia latispatha* Benth. (not. H. bihai)
- 14434. *Odontocarya paupera* var. *canescens* Miers (not Cissampelos preira.)
- 14736. *Heliconia psittacum* L. f. (Det. L. B. Smith)
- 14841. " " L. f.
- 15493. " *marginata* (Griggs) Pittier (Det. L. B. Smith)
- 15783, 15899, 20034. *Phytolacca rugosa* A. Br. & Bouché
- 17703. *Phytolacca bogotensis* H.B.K.
- 17875, 18497 (type) *Puya killipii* Cuatr.
- 18625. *Lycopodium*
- 18930. *Puya goudotiana* Mez (Det. L. B. Smith)
- 18994, 19178. *Solanum mutisii* Morton (rather than S. monticola; corr. by Morton)

- 20740. *Dendrophthora biserrula* Eichl.
- o 20815. *Struthanthus pyrifolius* (H.B.K.) G. Don
- o 21216. *Juglans columbiensis* Dode

ca

Killip & Smith, Colombia

Det. E. P. Killip unless otherwise noted, January 1944

14363. *Heliconia latispatha* Benth. (not. H. bihai)
14434. *Odontocarya paupera* var. *canescens* Miers (not Cissampelos preira.)
14736. *Heliconia psittacorum* L. f. (Det. L. B. Smith)
14841. " " L. f.
15493. " *marginata* (Griggs) Pittier (Det. L. B. Smith)
15783, 15899, 20034. *Phytolacca rugosa* A. Br. & Bouché
17703. *Phytolacca bogotensis* H.B.K.
17875, 18497 (type) *Puya killipii* Cuatr.
18625. *Lycopodium*
18930. *Puya goudotiana* Mez (Det. L. B. Smith)
18994, 19178. *Solanum matisii* Morton (rather than S. monticola; corr.
by Morton)
20740. *Dendrophthora biserrula* Eichl.
✓ 20815. *Struthanthus pyrifolius* (H.B.K.) G. Don
21216. *Juglans columbiensis* Dode

Killip-Smith. ✓ ^{Andrus det. S. J. van Oostrom}
16436. *E. tenuis longifolius* (Chois.) v. Oost.

o14315, 14522, 20994. ✓ ✓
E. cardiophyllus Schlecht.

Current South American collections identified at U. S. National Museum,
May 1935.

Gesneriaceae (Det. C. V. Morton)

Killip & Smith

27393. *Codonanthe formicarum* Fritsch
29647. *Codonanthopsis Ulei* Mansfeld
23084. *Alloplectus speciosus* Poepp. & Endl.
25935. " " "
25755. " " "
22988. " *pendulus* Poepp. & Endl.
25650. " " " ? Our specimen sterile.
25725. " " "
29506. " *semicordatus* Poepp. & Endl.
25953. *Alloplectus speciosus* Poepp. & Endl.
26049. " " "
26389. *Codonanthopsis Ulei* Mansfeld
26869. *Codonanthe Uleana* Fritsch
26934. *Alloplectus circinnatus* Mast.
26961. *Codonanthe Uleana* Fritsch
27042. *Alloplectus circinnatus* Mast.
27419. *Codonanthe formicarum* Fritsch
29166. *Codonanthe Uleana* Fritsch
29182. " *peruviana* Morton n. sp. type
29211. " " "

- Killip & Smith
16096. *Asplenium raddianum* Gaud.
 16652. " " "
 18198. " *sessilifolium* Desv.
 19191. " *raddianum* Gaud.

5275, 11683.
Syzygium peruvialis
 Mart. & Mart.

Killip & Smith 20407. *Cyathea divergens* Kunze

.....
 Killip & Smith 15468, 16534, 17456, 19241, 19630, 20059, 20668. *Calea caracasana* (H.B.K.) Kuntze (Det. Blake) Nos. 17296, 18811, 20009 are all forms of the same.

Current South American Collections

(Reported by U.S.N.M., September 1940; det. E. P. Killip, unless otherwise stated)

Killip & Smith - Colombia

15013. *Tradescantia multiflora* Sw. (Det. Morton; not *T. cumanensis*)
 15299. *Paepalanthus killipii* Moldenke (type)
 17339. *Heliopsis lanceolata* Blake (type)
 17905. " " "
 20622. *Paepalanthus paramensis* Moldenke (type)

Killip & Smith - Brazil

30080. *Mimosa xinguensis* Ducke (rather than *M. spruceana*)
 30242. *Chamaecrista browniana* B. & R. (not *C. mimosoides*)
 30283. *Chamaefistula chrysocarpa* (Desv.) B. & R. (not *C. quinquangulata*)
 30519. *Guatteria paraensis* Fries (Det. Fries)
 30644. *Machaerium macrophyllum* Benth.

Aristolochia (Det. O. C. Schmidt) Reported by U. S. N. M.

June 6, 1935.

Aristolochia Killip & Smith 14270. *A. loriflora* Mast. (not *A. inflata*)
14541. " "

Killip - Smith, Colombia

- ✓15077. *M. rupestris* H. B. K. Det. O. C. Schmidt
✓15568. *M. smithii* Chod. (Type)
✓16625. *M. elongata* Pl. & Lind.
✓19231. *M. aestuans* DC.
✓20555. *M. nemorosa* H. B. K.

Killip & Smith

- ✓16773. *Acnistus aggregatus* (R. & P.) Miers
✓16952. *Iochroma gesnerioides* (H.B.K.) Miers
✓17650. *Poecilochroma quitense* (Hook.) Miers
✓18958. *Iochroma gesnerioides* (H.B.K.) Miers
✓19355/ 19357. *Acnistus aggregatus* (R. & P.) Miers
✓19526. *Iochroma gesnerioides* (H.B.K.) Miers
✓20021. *Acnistus aggregatus* (R. & P.) Miers
✓20327. *Merinthopodium campanulatum* D. Sm.

Killip & Smith

- ✓15191, 15362, 16167. *Steiractinia schlimii* Blake (Det. Blake)
✓15366. *Steiractinia lucidula* Blake (type)
✓17997. " *klattii* (Rob. & Greenm.) Blake (Det. Blake)

Killip-Smith Colombia

Dioscorea

(Det. R. Knuth)

- √14171. *D. polygonoides* H. & B.
- √14629. " "
- √14684. " "
- √16719. " *suratensis* R. Knuth (type)
- √18326. " *martensis* R. Knuth
- √18962. " *meridensis* Kunth
- √19157. " "
- √20198. " *polygonoides martinicensis* (Spring.) R. Knuth
- √20823. " " ^rH. & B.

Killip-Smith Colombia.

(Det. C. V. Morton)

- √16160. *D. lehmannii* Uline
- √20374. " "

Apr 4, 1935
From W.P.M.

15121. *Struthiopteris cordata* (Desv.)
 ✓15558. *Diplazium grandifolium* Sw. (det. Morton)
 ✓15652. *Psilogramme elongata* (Hook. & Grev.) Kuhn
 ✓15758. " *flexuosa* (Desv.) Kuhn
 ✓15812. " " " "
 ✓15858. *Polypodium acrodontum* Fée (det. C. A. W. 1934)
 ✓15928. *Psilogramme retrofracta* (Hook.) Maxon
 ✓16851. *Cheilanthes myriophylla* Desv.
 17222. *Psilogramme retrofracta* (Hook.) Maxon?
 ✓17439. *Cheilanthes myriophylla* Desv.
 ✓17815. *Dicksonia Karsteniana* (Kl.) Moore (det. C. A. W., 1934)
 ✓17854. *Dicksonia Karsteniana* (Kl.) Moore (det. C. A. W., 1934)
 17947. *Struthiopteris loxensis* (Kunth) Maxon
 ✓18095. *Dicksonia Karsteniana* (Kl.) Moore (det. C. A. W., 1934)
 ✓18195. *Psilogramme hirta* (H.B.K.) Kuhn
 18463. *Struthiopteris loxensis* (Kunth) Maxon
 18500. " *Schomburgkii* (Kl.)
 18506. *Psilogramme flexuosa* (Desv.) Kuhn
 ✓18667. " *elongata* (Hook. & Grev.) Kuhn
 18678. " *flexuosa* (Desv.) Kuhn
 ✓18739. *Polypodium moniliforme* Lag. (det. C. A. W., 1934)
 ✓18949. *Dicksonia Karsteniana* (Kl.) Moore (det. C. A. W., 1934)
 19607. *Psilogramme flexuosa* (Desv.) Kuhn
 ✓19852. *Struthiopteris meridensis* (Kl.)
 ✓19887. *Dicksonia Karsteniana* (Kl.) Moore (det. C. A. W., 1934)
 ✓20670. " " " " " " " "

Killip & Smith

- ✓15788. *Vaccinium corymbodendron* Dunal (18383 evidently goes here too. -E.P.K.)
 ✓16766. " "
 ✓16767. " "
 ✓16770. *Befaria glauca setosa* Mansf. & Sleumer
 ✓16907. *Vaccinium corymbodendron* Dunal
 ✓17609. " *floribundum ramosissimum* (Dunal) Sleumer
 ✓17949. *Disterigma empetrifolium* (H.B.K.) Drude
 ✓18322. *Saurauia excelsa xanthotricha* (Turcz.) Busc.
 ✓18468. *Vaccinium floribundum ramosissimum* (Dunal) Sleumer
 ✓18825. *Saurauia excelsa* Willd.
 ✓18880. *Befaria glauca setosa* Mansf. & Sleumer
 ✓18894. *Vaccinium meridionale* Sw.
 ✓18909. " *corymbodendron* Dunal
 ✓19083. *Befaria glauca setosa* Mansf. & Sleumer

det. H. Sleumer

Killip & Smith 16993[✓], 16168^q, 19250, 19244, 17091⁹, 19437, 16610[✓], 16513[✓],
Siphocampylus 19255, 16779[✓], 17051[✓], 17999[✓], 19018[✓], 18856[✓], 15480[✓], 17455[✓], 21164[✓],
phyllobotrys Wim. Also 16545[✓]

Killip & Smith 15375[✓], 16742 phyllobotrys Wim. f. nudus Wim.

Siphocampylus

16549[✓] phyllobotrys Wim. var. leucanthus Wim.
20591[✓], 20718[✓], 20576[✓], 20353[✓], 20320[✓] laevigatus Planch.

17271[✓], 18176[✓], 17926[✓] peritornus Wim.

17820[✓], 17849[✓], 17704[✓], 17767[✓], 17773[✓], 17818[✓], 17828[✓],
and 17270[✓] peritornus Wim. var. ricensis Wim.

15976[✓] tuberculatus Wim. var. carmesinus Wim.

20774[✓] Planchonis Wim.

19627[✓] Ellsworthi Wim. TYPE NUMBER

20549[✓] brevipedicellatus TYPE NUMBER

Killip & Smith 20717[✓] Flos-Mutisii Wim.

20585[✓] Flos-Mutisii Wim. f. haticensis Wim.

20005[✓] pamplonensis Wim.

18848[✓], 19205[✓], 19977[✓], 20226 pamplonensis Wim. var. fra-
tellus Wim.

~~2007~~ 20074[✓] tenuifolius Wim. TYPE NUMBER

19754[✓] belliflorus Wim.

17833[✓] opyropus Wim/ TYPE NUMBER

15581[✓] aureo-ruber Wim. TYPE NUMBER

Killip-Smith 22512. *Siphocampylus aurocinctus* Wimmer

22643. *Centropogon urubambae estrellanus* Wimmer (type)

25772. " capitatus Drake

25918. " latifolius Wimmer (type)

26146. " sciaphilus A.Q.Z. Zahlbr.

KS. 27382. *Alternanthera lanceolata* (Benth.) Schinz

Reported by Udum
June 1937

Lobeliaceae, det. Wimmer

° Killip-Smith 19967. *Centropogon microcalyx* Wimmer (type)

20234. *Burmeistera puberula* Wimmer (type)

Det. Kostermans:

KS. 28400. *Endlicheria debilis* Kosterm. (type NY), not *E. mishuyacensis*

28050. *Endlicheria rubriflora* Mez, not *Aniba reticulata*.

Araliaceae, det. Harms (Current South American collections)

Reported by U.S. Nat. Mus. July 7, 1937.

Killip & Smith, Colombia

- 17775. *Oreopanax cyclophyllus* Harms (type)

- 17864. " *reticulatus* (Willd.) Dcne. & Planch.

- 18376. " *santanderianus* Harms (type)

✓ 18680. " cf. *incisum* (Willd.) Dcne. & Planch.

✓ 18687. " *killipii* Harms (type)

✓ 19954. " *coriaceus* Dcne. & Planch.

20324. " cf. *capitatus* Dcne. & Planch.

Killip & Smith:

- ✓14588. *Psittacanthus Warmingii* Eichl.
- ✓15056. *Siparuna pectinata* A.C.Smith, not. *S. macrophylla*.
- ✓15455. *Struthanthus orbicularis* (HBK.) Blume
- ✓15681. *Gaultheria santanderensis* A.C.Smith
- ✓15810. *Aetanthus columbianus* A.C.Smith
- ✓15825. *Gaultheria vegasana* A.C.Smith (type)
- ✓16689. *Struthanthus calophyllus* A.C.Smith (type)
- ✓17215. *Gaultheria santanderensis* A.C.Smith
- ✓17273. *Gaultheria ramosissima* Benth.
- ✓17303. *Gaultheria santanderensis* A.C.Smith (type)
- ✓17427. *Gaultheria ramosissima* Benth.
- ✓17580. *Gaultheria* " "

K. & S. f

- ✓17663. *Gaultheria santanderensis* A.C.Smith
- ✓17683. *Gaultheria ramosissima* Benth.
- ✓17743. " " "
- ✓17745. *Gaultheria santanderensis* A.C.Smith
- ✓17795. *Aetanthus columbianus* A.C.Smith
- o✓18127. " " "
- o✓18185. *Gaultheria ramosissima* Benth.
- o✓18442. " " "
- ✓18469. " " "
- ✓18562. " " "
- o✓19026 (N). *Struthanthus dichotrianthus* Eichl. vel valde aff.
- ✓19101. *Siparuna Trianaei* A.DC.v.*latifolia* A.DC., ex char.,
not. *S. echinata*.
- ✓19131. *Struthanthus dichotrianthus* Eichl. vel valde aff.
- o✓19626 (N). *Gaultheria hapalotricha* A.C.Smith (type)
- o✓20020. *Phthirusa gonioclada* A.C.Smith
- ✓20330. *Siparuna tapatana* A.C.Smith (type)
- ✓20399. " " "
- ✓20537. *Phthirusa gonioclada* A.C.Smith (type)
- ✓20583. *Aetanthus columbianus* A.C.Smith (type)
- ✓21135. *Siparuna pectinata* A.C.Smith (type)

Killip & Smith, Colombia

- Heuchera*
- ✓15680. *H. purdieana congesta* Allen, n. var.
 - ✓15679. *H. adpressa* Allen, n. sp.
 - ✓17485. *H. purdieana congesta* Allen, n. var.
 - ✓17558. *H.* " " " " " ✓17516. *H. gigantea* Allen, n. sp.
 - ✓17604. *H.* " " " " " } ✓17521. *H.* " " " "
 - ✓17662. *H.* " " " " " } ✓17566. *H.* " " " "
 - ✓17722. *H.* " Wedd.
 - ✓17982. *H.* " *congesta* Allen, n. var.
 - o✓18229. *H.* " Wedd.
 - ✓18426. *H.* " "
 - ✓18466. *H. purdieana* Wedd.
 - ✓18544. *H.* " "
 - ✓18546. *H.* " "
 - ✓18568. *H. elegans* Allen, n. sp.
 - ✓18665. *H. purdieana* Wedd.
 - o✓18688. *H.* " "
 - ✓19551. *H.* " *congesta* Allen, n. sp.
 - o✓19723. *H. kalbreyeri* Gilg.

Det. by Mrs. W. Purdie, at Killip & Smith's.

Killip & Smith, Colombia

- ✓14052. *Malvaviscus arboreus* Cav.
- ✓14773. *Commelina elegans* H.B.K.
- ✓14774. *Cestrum scandens* Vahl (Det. Francey)
- ✓15387. *Tradescantia gracilis* H.B.K.?
- ✓15530. *Escobedia grandiflora* L.f. (Det. Pennell)
- ✓15691. *Cestrum melanochloranthum* Dunal (Det. Francey)
- ✓15805. *Sisyrinchium convolutum* Nocca?
- ✓16079. *Hydrangea durifolia* Briq.?
- ✓16431. *Cleome gigantea* L.?
- ✓17059. *Viburnum tinoides* L.f.
- ✓17068. *Tradescantia cumanensis* Kunth?
- ✓18181. *Ranunculus cymbalaria* Pursh
- ✓18188. *Aragoa lycopodioides* Benth. (Det. Pennell)
- ✓18287. *Commelina elegans* H.B.K.
- ✓18366. *Hydrangea goudotii* Briq.
- ✓19048. *Norantea mixta* Tr. & Planch.?
- ✓19204. *Gynandropsis hirsuta* Moldenke?
- ✓19649. *Geranium killipii* Knuth (type)
- ✓19679. *Carica candamarcensis* Hook. f.?
- ✓19686. *Dendrophthora clavatum* (Benth.) Urban
- ✓20375. *Tovaria pendula* R. & P.
- ✓20477. *Hydrangea durifolia* Briq.?
- ✓20951. *Desmodium tortuosum* (Sw.) DC.
- ✓18278. *Hypericum thesiifolium* H.B.K.
- ✓17172. " " "
- ✓19684. " " "
- ✓20487. " " "
- ✓18380. " " "

Killip & Smith 20324 ✓ *Kalbreyeri* Wim. var. *tapatana* Wim. Burmeistera

Lobelia

Killip & Smith 19638 *subpubera* Wedd. var. *Weberbaueri* (Zahlbr.) Wim.
19567 ✓, 17682? 17554* *gryllorum* Wim. 19567* is the type.

- ✓ Killip & Smith ✓14924. *Dryopteris serrata* (Cav.) C. Chr. Det. by Maxon & Morton
- ✓ 15248. " *peruensis* Maxon & Morton
- 22945. " *consobrina* Maxon & Morton
- 23514. " "
- 23890. " *jurgensenii* (Fee) Maxon & Morton
- 24087. " *consobrina* Maxon & Morton (type)
- 24651. " *ensiformis* C. Chr.
- 25570. " *jurgensenii* (Fee) Maxon & Morton
- 27036. " *serrata* (Cav.) C. Chr.

not listed at
Gray Herb.

Killip-Smith. Colombia

- ✓15080. *Ficus popayanensis* Standl.
- ✓16411. " "
- ✓16667. *Cecropia* (doubtless sp. nov.)
- ✓19046. *Ficus popayanensis* Standl.
- ✓20282. " "
- ✓20508. " "
- ✓20852. *Cecropia humboldtiana* Kl.
- ✓14243. *Cecropia*, probably new, but our specimen without infl.

Killip & Smith, Colombia

- Senecio*
- ✓15781. *S. magnusii* Hieron.
 - ✓19912. *S. pulchellus* (H.B.K.) DC.
 - ✓15823. *S. lindeni* Sch.Bip.
 - ✓16906. " "
 - ✓17214. " "
 - ✓17268. " "
 - ✓18207. " "
 - ✓18429. " "
 - ✓18561. " "

Current South American collections

Reported by U.S.N.M. Jan. 10, 1939.

Killip & Smith (Colombia)

- ✓14502. *Wissadula amplissima* (L.) R.E.Fr.
- ✓14260. *Martinella obovata* (H.B.K.) Bur. & Sch. (Det. Siebert)
- ✓15759. *Arenaria lanuginosa* (Mx.) Rohrb. (Det. Mattfeld)
- ✓18092. " " "
- o ✓21116. " " "
- ✓16670. *Hieronyma scalera* (Tul.) Muell. Arg. (Det. Wheeler)
- o ✓17639. *Carex jamesonii* Boott
- o ✓20772. *Passiflora pulchella* H.B.K.? (Sterile)

(Peru)

- / 25415. *Amphilophium paniculatum* (L.) H.B.K. (Det. Seibert)
- 27583. *Aristolochia pannosa* Mast. (Cited by Schmidt)
- 29073. *Martinella obovata* (H.B.K.) Bur. & Sch. (Det. Seibert)
- 30528. *Cordia scabrifolia* A.DC. (Det. Johnston)

not
listed at
S.H.

KILLIP & SMITH EUPATORIEAE OF PERU DETERMINED AT THE GRAY HERBARIUM BY

B. L. ROBINSON

- 21,502 *Mikania micrantha* HBK.
 21,542 *Eupatorium Sternbergianum* DC.
 21,659 " " "
 21,677 " " "
 21,820 *Ophryosporus origanoides* (Meyen & Walp.) Hieron.
 21,829 " " " " "
 21,833 *Eupatorium tarmense* Robinson, spec. nov.
 21,861 *Ophryosporus origanoides* (Meyen & Walp.) Hieron.
 21,993 *Eupatorium Sternbergianum* DC.
 22,150 " " "
 22,154 " *connivens* Rusby
 22,179 " *cucosmoides* Robinson
 22,232 " *pampalcense* Robinson, spec. nov.
 22,463 " *rhodotephrum* Robinson,
 22,688 " *microstemon* Cass., var. *perennans* Robinson, var. nov.
 22,718 " *Maximiliani* Schrad.
 22,736 *Mikania cordifolia* (L. f.) Willd.
 22,793 " *guaco* H. & B.
 22,851 " *micrantha* HBK.
 23,113 " " "
 23,319 *Ophryosporus origanoides* (Meyen & Walp.) Hieron.
 23,337 *Eupatorium huantae* Robinson, spec. nov.
 23,500 *Mikania micrantha* HBK.
 23,735 *Eupatorium laevigatum* Lam.
 23,793 " *mercedense* Robinson, spec. nov.

- 23,810 *Eupatorium squalidum* DC.
 23,835 *Mikania cryptodonta* Robinson
 24,090 *Eupatorium squalidum* DC.
 24,018 " *Maximiliani* Schrad
 24,091 " *calliæpis* Sch.-Bip.
 24,144 " *Gilbertii* Robinson
 24,195 " *pycnocephalum* Less.
 24,292 *Mikania Jelskii* Hieron.
 24,388 *Ophryosporus piquerioides* (DC.) Benth.
 24,625 *Eupatorium laevigatum* Lam.
 24,768 *Mikania ferruginea* Rusby
 24,894 " "
 24,897 " *Lindbergii* Bak.?
 24,971 *Eupatorium squalidum* DC.
 24,983 " *Maximiliani* Schrad.
 25,115 " *squalidum* DC.
 25,130 " *ivaefolium* L., var. *hirsutum* Hassl.
 25,239 *Mikania cordifolia* (E. f.) Willd.
 25,313 " *cryptodonta* Robinson
 25,439 " *infesta* Robinson, spec. nov.
 25,482 " *Lindleyana* DC.
 25,495 " *yapasensis* Robinson, spec. nov.
 25,626 " *Ruiziana* Poepp.
 25,797 " *Macbridei* Robinson
 25,800 " *desmocephala* Robinson, var. *peruviana* Robinson
 25,824 " " " " " "
 25,827 *Eupatorium hylophorbium* Robinson, spec. nov.
 25,907 *Mikania Ruiziana* Poepp.
 25,912 " *Macbridei* Robinson
 25,933 *Eupatorium marginatum* Poepp.
 26,071 *Mikania psilostachya* DC.
 26,125 *Eupatorium beneolens* Robinson
 26,304 " *elatum* Steetz
 26,600 " " "

- 26,857 *Eupatorium Maximiliani* Schrad.
 26,968 *Mikania Mathewsii* Robinson
 27,080 " *iquitosensis* Robinson, spec. nov.
 27,104 " *Lindleyana* DC.
 27,168 " *micrantha* HBK., forma *congesta* (DC.) Robinson
 27,355 " *parviflora* (Aubl.) Karst.
 27,386 " *guaco* H. & B.
 27,478 " *antioquiensis* Hieron.
 27,556 " *Mathewsii* Robinson
 27,949 " " "
 28,323 *Eupatorium pyriforme* DC.
 28,616 *Mikania stygia* Robinson
 28,844 " *parviflora* (Aubl.) Karst.
 29,002 *Eupatorium elatum* Steetz
 30,273 *Mikania* sp. ? (too young)
 30,295 *Eupatorium Maximiliani* Schrad.
 30,470 " " "

Killip & Smith

List sent Mrs. Killip Dec. 13, 1933 for
further determinations.

21,503 Tessaria
21,594 Baccharis
21,720
21,741 Galinsoga
21,853
21,866 Baccharis
21,994 "
22,160 Verbesina
22,250 Baccharis
23,312 "
23,458 "
23,566 Tessaria
24,215
24,395 Baccharis
24,742
24,793 Vernonia
25,112 Baccharis?
25,485
26,326
29,033 Baccharis

apr. 4, 1935

Peru, Killip & Smith in 1929.

21511. *Azolla filiculoides* Lam.
21796. *Cheilanthes myriophylla* Desv.
23249. *Psilogramme elongata* (Hook. & Grev.) Kuhn
23895. *Diplazium grandifolium* Sw.?
24001. " " " ?
25508. " " " ?
25947. *Psilogramme Orbignyana* (Mett.) Kuhn

E. P. Killip, Peru - Brazil
1929

Boraginaceae determined by I. M. Johnston

Haught 256	<i>Heliotropium fruticosum</i> L.
21735	<i>Plagiobothrys humilis</i> (R. & P.) Johnston
22353	<i>Fuchsia Smithii</i> , n. sp.
25311	<i>Plagiobothrys humilis</i> (R. & P.) Johnston
23269	<i>Malvastrum Urbanianum</i> Ulbr.? specimen too mature, no leaves
24459	Rubiacea
25436	<i>Fuchsia sphaerocarpa</i> , n. sp.
25784	" " Johnston
26628	<i>Heliotropium indicum</i> L.
30008	<i>Cordia silvestris</i> Fresen
30290	<i>Tournefortia bicolor</i> Sw.
30355	<i>Cordia nodosa</i> Lam.
30403	" <i>multispicata</i> Cham.
30425	" <i>scabrida</i> Mart.
30434	" " "

Rosaceae determined by Miss Perry

21559	<i>Acaena torilicarpa</i> Bitter
22113	<i>Alchemilla pinnata</i> R. & P.
22211	<i>Acaena ovalifolia</i> R. & P.
22224	<i>Alchemilla aphanoides</i> L. f.
23262	" <i>orbiculata</i> R. & P.
24407	<i>Acaena ovalifolia</i> R. & P.
30671	<i>Alchemilla pinnata</i> R. & P.

Determinations by C. A. Weatherby

21614	<i>Luzula racemosa</i> Desv., var. <i>humilis</i> (Buchenau) Castillon
22050	<i>Distichia muscoides</i> Nees & Meyen
22066	<i>Luzula boliviensis</i> Buchenau
25209	<i>Polypodium percussum</i> Cav.

Miscellaneous South American Collections

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

Killip & Smith, Peru and Brazil

- 21848. *Portulaca peruviana* I. M. Johnst.
- 22502. *Siparuna exsculpta* Perk.
- 22657. *Phytolacca rivinoides* Kth. & Bouché
- 23815, 23827. *Mollinedia*
- 24271. *Cyperus tabina* Steud.
- 24876. *Palicourea jelskii* Standl. ? (Det. Standley)
- 25045, 26145, 28718. *Heliconia cannoidea* L. C. Rich.
- 25328. *Phytolacca rivinoides* Kth. & Bouché
- 25634. *Phoradendron crassifolium* (Pohl) Eichl.
- 25705. *Epidendrum carnosiflorum* C. Schweinf. (type)
- 26849. *Rourea amazonica* Huber (Det. Leonard)
- 27197, 27919. *Liriosma spruceana* Engl.
- 27314. *Liriosma gracilis* A. C. Smith
- 27431. *Herrania nitida* (Poepp.) R. & Schultes, vel aff. (not *Theobroma mariae*; corr. by Schultes)
- 27711. *Heliconia marginata* Griggs (Det. Griggs)
- 27729. *Neea virens* Poepp. (Det. Leonard)
- 27749. *Duguetia quitarensis* Benth.
- 28011. *Micropholis cylindrocarpa* (P. & E.) Pierre (Det. Gilly)
- 28234. *Herrania nitida* var. *sphenophylla* R. E. Schultes (Det. Schultes)
- 28248. *Neea parviflora* P. & E. (Det. Leonard)
- 28395. *Anaxagorea brevipes* Benth.
- 28431. *Unonopsis gracilis* R. E. Fries
- 28447. *Mollinedia latifolia* (P. & E.) Tul.
- 28537, 29770. *Unonopsis veneficiorum* (Mart.) Fries
- 28856. *Torrubia myrtifolia* Standl. (Det. Leonard)
- 29245. *Oryctanthus florulentus* (Rich.) Urban (not *Phthirusa pyrifolia*)
- 29304. *Unonopsis veneficiorum* (Mart.) Fries (cited in Fl. Peru as 29340 in error)
- 29343. cf. *Lacistema macbridei* Baehni [our specimen poor]
- 29759. *Lonchocarpus glabrescens* Benth. (Cited in Fl. Peru)
- 29803. *Duguetia quitarensis* Benth.
- 30034. *Prevostia ferruginea* Chois. (Det. Leonard)
- 30154. *Dalechampia micrantha* P. & E. (Det. Croizat)
- 30199. *Cerebea paraensis* Huber
Pennell, Peru and Chile
- 12535. *Carex distenta* Kunze
- 13131. *Alternanthera arequipensis* Süsseng. (type)
- 14456. " *albo-tomentosa* Süss. (type)

J. M. Schunke 45. *Herrania nitida* var. *sphenophylla* R. E. Schultz (not *Theobromae mariae*; corr. by Schultes)

Persaud 97. *Licania floribunda* Benth. (Det. Leonard)

I believe you have these:

Williams 12822. *Cathedra caurensis* Bittier (Det. Standley)

Killip 37819. *Siparuna pittieri* R. Knuth (but name only!)

Haught 3423. " *eggertii* Hieron.

Inst. Agr. Sao Paulo (Krug) 1591. *Nectandra grandiflora* Nees

Do you have there a record of the Pinkus collection? If so has his 194, probably an *Annon.* been named?

Field notes Dec. 26, 1939.

Killip.

Plants of Colombia

- 35462 *Spigelia Anthelmia* L.
34932 *Cochliostema odoratissimum* Lam.
33911 *Guzmania coriostachya* (Gris.) Mez
35230 " *nusaica* (Linden) Mez
34978 " " " "
33664 *Ronnbergia maidifolia* Mez
33453 *Guzmania subcorymbosa* L.B. Smith
34934 *Aechmea Germiniana* (Carr.) Bak.
35225 " " " "
33930 *Tillandsia adpressa* André var. *Tonduziana* (Mez) L.B. Smith
34696 " *elongata* HBK.
33182 " *monadelpha* (E. Morr.) Bak.
34435 " *fasciculata* Sw.
34970 " *bulbosa* Hook.
35538 " *Valenzuelana* A. Rich.
33019 *Vriesia ringens* (Gris.) Harms
33454 *Guzmania*
35207 " "
35245 *Pitcairnia*
33912 " "
34153 *Puya*
33464 *Aechmea*
33018 *Vriesia gladioliflora* (Wendl.) Ant.
33871 *Impatiens sultani* Hook. f.
34605 *Luzula gigantea* Desv. det. C.A. Weatherby
34538 *Juncus Bufonius* L. " "
35031 *Costus cylindricus* Jacq.
35096 *Calathea colombiana* L.B. Smith, n. sp.
35229 " *Killipii* L. B. Smith n. sp.
33485 *Heliconia Bikai* L. sens lat.
34485 " *hirsuta* L. f. var.
35475 *Costus cylindricus* Jacq. var. *ciliata* (Hiq.) O. G. Peters
33269 *Renealmia*
35289 " *diseased?*
33976 *Begonia foliosa* HBK.
33938 " " " "
34817 " *parviflora* P. & E., var.
33602 " *heterodonta* Rusby
34820 " *cucullata* Willd.
34436 " *tovarensis* Kl.
34595 " *urticae* L. f.

Haught

- 2317 *Pitcairnia Schultzei* Harms
2774 " "
2788 *Heliconia psittacorum* L. F.
2939 " *platystachys* Bak.
2770 " *hirsuta* L. f. var. *cannoidea* (L.C. Rich.) Bak.
2568 *Maranta tonckat* (Aubl.) Eichl.
2312 *Calathea macrosepala* K. Schum.

Mexia

2

6615 Begonia Spruceana A. DC.

Schunke

323 Begonia Spruceana A. DC.

Viegas

3057 Calathea Eichleri Peters

H. Garcia

5182 Heliconia hirsuta L.f. var. cannoidea (L.C.Rich.) Bak.

Cardenas

2060 Heliconia Cardenasii L.B. Smith

Cuatrecasas

1001 Tillandsia recurvata L.

1367 Luzula gigantea Desv. det. C.A. Weatherby

477 Juncus bogotensis HBK. " "