

Acc. 12-053

Killip, Field Notes #14000-17290.

1926-27

I

I

K. S. Colombia  
1450 - 15645

II

K. S. Colombia  
15646 - 17290

EXPLORATION IN COLOMBIA  
EASTERN CORDILLERA

Dept. Santander: Vicinity of California; alt. meters.  
No. E. P. KILLIP } Collectors. Jan. 11-27, 1927  
ALBERT C. SMITH }

Collected under the auspices of the New York Botanical Garden,  
Gray Herbarium of Harvard University, United States  
National Museum, and the Arnold Arboretum.



herb	H.	red	r.
tree	T.	orange	o.
shrub	S.	yellow	y.
fern	F.	blue	b.
flower	F.	green	g.
fruit	Fr.	violet	v.
		purple	pur.
		pink	pi.
		brown	b.
		white	w.

plenty u

photographed P.

Smithsonian Inst.  
Washington, D.C.

		habit	flowers or fruit	date	habitat	location	alt.	no. spec.	photo
14001	Mimosa	semi-prostr. s. 2-3' l.		Oct. 31	coastal flats	Mauga I.	s.	4	
14002	Mimosa	t. 20' spread. crown yellow	duel yellow	" "	" "	" "	"	5	P. 5
14003	Mimosa	semi-prostr. 2-3' l.						3	
14004	Cakile	creep. shrub. 1-2' h.			beach			5	
14005	Rauwolfia Tabernardana	s. 10-12'	S. white		coastal <del>shrub</del> thicket			5	
14006	Adenocalymna	woody vine	F. w. and deep purple					5	
14007	Valerianodes	coarse h. 2-3'	F. pale purple			cor. deep purp. paler at center		5	
14008	Balbergia	slender s. 4-5'	F. rich purple					1	
14009	Wissadula	h.	F. white					1	
14010	Fimbristylis miliacea	h.			beach			5	
14011	Rhizophora mangle	shrub 6-10'			mangrove swamp			5	
14012		shrub 2-6'	F. white					5	
14013	Rauwolfia	shrub 2-4'	F. w.		coastal thicket			5	
14014		tree 15-20'	blowing branches drooping					5	
14015	Balbergia	shrub 7-10'	fruit green		coastal thicket			5	
14016	Polichos	woody vine	blower white					5	
14017	Sterculia	shrub 10-12'	F. deep lavender					5	
14018	Americium	tree 15-20'	F. yellow					5	
14019	Wissadula	h.	F. yellow		sandy roadside			5	
14020		woody vine	F. green		coastal thicket			5	
14021	comp	H. semi-scandent	F. orange		sandy roadside			2	
14022	Forchocarpus	T. 20'			<del>coastal</del> thicket			5	
14023	Alternanthera lehmannii	H. scandent	F. w.					5	
14024	"Clematis"	T. 20-30' spread. crown			roadside			5	P. 5
14025	Ricinus communis	H. coarse 10'	F. red.					5	
14026	Cordia alba	T. 15-20'	F. w.		coastal thicket			5	P. 5
14027	Cassia ligustrina	T. 15-20'						5	
14028	Cassia tora	S. 5-15'	F. y.					5	
14029	Stemodia durantifolia	H. 2-3'	F. w.		coastal flat			5	
14030	Americium	T. low						3	
14031	Calliandra	T. 20-30'			in garden			5	
14032	Jatropha	S. 10-15'	F. yellow-g. sepals	Nov. 2	roadside clay soil	base - La Pofa		5	
14033	Cissus	vine	F. greenish					5	
14034	Sponsea bederacea	vine	F. cor. W. P.					5	
14035	(verb.) erinbergii	H.	F. l.					5	

14036	<i>Tribulus terrestris</i> <sup>maximus</sup>	H. prostrate	F. Y. F. head w.	Nov. 2 roadside clay soil	base - La Popa	S.	12	
14037	(comp.)	H. low 1-2'	F. Y.				u	
14038	Cassia	S. creeping	F. w.				u	
14039	<del>Cat</del> Kallstroemeria	H. 3-6'	F. Y.				u	
14040	Cassia grandis	H. semi-pro.	F. Y.				u	
14041	Trixis	H. coarse very viscos	F. salmon				u	
14042	Abutilon	H. spreading	F. light b.				u	
14043	Priva lappacea	T. 20-30'		woods, etc.	La Popa		u	P <sub>2</sub> <sup>6-7</sup>
14044	Bulnesia arborea	H.	F. light b 1cm. wide				u	
14045	Commelina elata	H.	F. Y-8.				u	
14046	Ephedra linta	S. semi-pro.					u	
14047	Mimosa	H.					u	
14048	Panicum barbinerve	T. 50-80'					u	P <sub>2</sub> <sup>8-9</sup>
14049	Coussapoa	T. vine, hanging	F. w.				u	
14050	Cissus sicyoides							
14051	Panicum	H.	Fr. dark				u	
14052	Hibiscus	S. 5-15'	F. petals long				u	
14053	Tabernaemontana	T. 20'	F. w.				u	
14054	Rivina humilis	H.	F. w.				u	
14055	Atenantha	H.	F. w.				u	
14056	(labratae)	H. woody, low	F. w.				u	
14057	<del>Stemodia</del> Sauvagesia erecta	H.	F. w.				u	
14058	Heliotropium arborescens	H.	F. w.				u	
14059	Indigofera anil	H. coarse	F. purple				u	
14060	Solanum nigrum	H. 1 1/2 - 2'	F. cor. w. F. d. yellow				u	
14061	Manettia	S. low	F. w.				u	
14062	Sterculia	S. 1-3'	F. rich p.				u	
14063	Spermocece	H.	F. w.				u	
14064	Lycopersicon esculentum	H. 1 1/2 - 2'	F. cor. w. - any				2	
14065	Ananthes	H.	F. straw col				u	
14066	Commelina	H.	F. light b.				u	
14067	Stylosanthes	H. pro.	F. Y.				u	
14068	Calliandra	T. 12-15'	F. stam. pale				u	
14069	Mimosa	S. semi-pro.					u	
14070	Ayenia	F. H. slender	F. Y.				u	

14071	<i>Cassia ligustrina</i>	T. 12-15'	
14072	( <i>Rutaceae</i> ) " <i>tortuoso cimaron</i> "	T. 10-15'	Fr. ovoid ± 9" l. Fr. green.
14073	<i>Euphorbia brasiliensis</i>	H.	F. w.
14074	<i>Panicum</i>	H.	
14075	<i>Acalypha</i>	A.	
14076		H. 2-4'	F. w. greenish, F. cream w.
14077	<i>Petiveria alliacea</i>	H.	
14078	<i>Mimosa</i>	T. 10-15'	
14079	( <i>Bignoniaceae</i> )	vine W.	F. pur.
14080	<i>Solanum</i>	H.	F. con. w. F. sta. y.
14081	<i>Euphorbia lasiocarpa</i>	H.	F. w.
14082	<del>La</del> <i>Lasiacis</i>	vine	
14083		S. 8-12'	Fr. red.
14084	<i>Mimosa mangrove</i>	<del>F. 15'</del> S. 4-6'	F. stamens p.
14085	<i>Bauhinia</i>	S. 10-15'	F. w.
14086		vine W.	F. y.
14087	( <i>Bignoniaceae</i> )	H.	F. y.
14088	<i>Cracca</i>	vine W.	F. p. to pur
14089	<i>Cassia</i>	T. 10-15'	F. y.
14090	<del>Mimosa</del> <i>Acacia</i>	T. 8-15'	F. y.
14091	<del>La</del> <i>Meibomia</i>	H.	F. pinkish
14092	<i>Coccolobis uvifera</i>	S. 5-10'	F. w.
14093	<i>Jacquinia</i>	S. low.	F. w. pet. w.
14094	<i>Platyphra</i>	S. 5-15'	F. sep. y.
14095	<del>Suriana</del>	S. or small T.	F. y.
14096	<i>Cenchrus</i>	H.	
14097	<i>Eragrostis</i>	H. proleferous grass.	
14098	<del>La</del> <i>Funistylis spatulacea</i>	H.	
14099	<i>Funistylis castanea</i>	H.	
14100	<i>Cracca cinerea</i>	H. 1-2'	F. pur.
14101	<i>Coco</i>	T. 20-70' leaves 10-20'	
14102	<i>Cyperus nutisii</i>	H.	
14103	<i>Eragrostis</i>	H.	
14104	<i>Cucumis</i>	H.	F. y. Fr. obovate
14105	<i>Cyperus</i>	H.	

Nov. 2 Woods, etc.

La Popa

halves of fruit used for carrying water

300m

14071	u	15041
14072	u	P. 15, 16
14073	2	17041
14074	u	17041
14075	u	17041
14076	u	17041
14077	u	17041
14078	u	17041
14079	u	17041
14080	u	18041
14081	u	18041
14082	u	18041
14083	u	18041
14084	u	18041
14085	u	18041
14086	u	18041
14087	u	18041
14088	u	18041
14089	u	18041
14090	u	18041
14091	S. 6	19041
14092	u	19041
14093	u	19041
14094	u	19041
14095	u	P. 17
14096	u	19041
14097	u	19041
14098	u	19041
14099	u	19041
14100	u	19041
14101	u	P. 18, 19
14102	u	19041
14103	u	19041
14104	u	19041
14105	u	19041

Nov. 3. sandy coastal strip "Boca Grande"

14106	<del>Capparis</del> <i>Croton</i>	S. low, branching	F. w.
14107	<i>Euphorbia</i>	H. branching at base	F. greenish w.
14108	<i>Catopsis</i>	H. coarse	F. sepals w.
14109	<i>Cassia tomentosa</i>	S. 4-6'	F. pet. w. deep p. dist.
14110	<i>Phaseolus</i>	vine, creeping in sand	F. Y.
14111	<i>Benuria</i>	S. 5-20'	F. purp.
14112	<i>Caesalpinia</i>	S. low	F. cor. a. l. auth. purp.
14113	<i>Sponsea pes-carpa</i>	H. repent vine	F. Y.
14114	<i>Alternanthera</i>	H. 2-4'	F. pink bl.
14115	<i>Weinmannia</i>	T. 10-12'	F. w.
14116	<del>_____</del> <i>Hippocratia</i>	woody vine	E. grass g. inflor.
14117	<i>Buxus</i>	T. 15-20'	
14118	<i>Tillandsia</i>	E. H.	Fr. only
14119	<i>Euclerus</i>	H.	
14120	<i>Dianthus</i> "enredadera"	vine	F. scarlet
14121	<del>_____</del> grass	H. dense clumps.	
14122	<i>Sporobolus</i>	H.	
14123	<i>Cracca</i>	vine W	F. p.
14124	<i>Cardiospermum helicababum</i>	vine W	F. w.
14125	<i>Mimosa mangrove</i>	S. 2-3' erect	F. sta. p-w.
14126	<i>Lasiacis</i>	vine	F. g.
14127	<del>_____</del> "escoba"	H. succulent	Fr.
14128	<i>Sida</i> "colija bea" "rosa"	H. 2-4'	F. pale y
14129	<i>Ilex</i>	S. 4-10'	Fr. w. invol. fur.
14130	<i>Pectis</i>	H. 2-3'	Fl. w.
14131	<i>Leucaena</i>	T. 15-20'	
14132	<i>Sponsea</i>	vine	F. cor. w. purp. dist.
14133	<i>Sponsea</i> (leg.)	H. 2-2 1/2'	F. purp. b.
14134	<del>_____</del> <i>Leguminosae</i>	H. succulent	F. pink
14135	<del>_____</del> <i>Acacia</i>	T. 12'	
14136	<i>Digitalis</i>	H.	
14137	<i>Evolvulus nanus</i> "variaefolia"	H. pro.	F. sky b.
14138	<i>Sponsea</i>	vine	F. w.
14139	<i>Cassia Aeschynomene</i>	H. unbranched, 2-3'	F. y.
14140	<i>Acacia</i>	T. 10-15'	

Date	Location	Soil	Notes
Nov. 3	sandy coastal strip Boca Grande	S.	
Nov. 4	sandy beach Tierrabouba I.	S.	
			coastal thicket
			edge of mangrove swamp coastal thicket





14176	<i>Claterrum cartthagense</i>	vine, H.	F. y.
14177	<i>Waltheria</i>	H.	F. y.
14178	<i>Cordia sebestena</i>	T. 10-15'	F. w.
14179	<i>Panicum tricaule</i>	H.	
14180	<i>Boraria</i>	H. semi pro.	F. w.
14181	<i>Acalypha</i>	H.	
14182	<i>Croton</i> "arbol de nieve"	H. woody at base ± 2'	F. pale y.
14183	<i>Rivina humilis</i>	H.	F. w.
14184	<i>Paspalum</i>	H. dense clumps root. at nodes	
14185	<i>Pectus</i> Evol.	H.	
14186	<i>Clytraria</i>	H.	F. lav.
14187	<i>Hibiscus</i>	S.	F. r.
14188	<i>Cassia</i>	H. erect ample 2-3'	F. y.
14189	<i>Cyperus</i>	H.	
14190	<i>Syntherisma</i>	H.	
14191	<i>Rauwolfia</i>	S. ± 5'	F. r.
14192	<i>Celtis</i>	T. 15-20'	
14193	<i>Piper nutida</i>	S. 6'	Spikes w.
14194	<i>Piper occidentale</i>	S. 6'	Spikes w.
14195	<i>Cassia</i>	H.	F. y.
14196	<i>Valeriodes</i>	H. 2-3'	F. deep pur. paler at center
14197	<i>Wissadula</i>	H. erect, few- branched	F. gr. w.
14198	"madragola"	S. 10-12'	F. cor. w. ant. nk cal. tube g.
14199	<i>Adeocalymna</i> <i>bijico daluikuma</i>	woody vine S. ± 6'	F. w. cor. lobes purple
14200	<i>Salbergia</i>		F. pur.
14201	<del><i>Cardiospermum</i></del> <i>Serjania</i>	woody vine	F. w.
14202	<i>Mimosa</i>	H. pubescent 2-2½'	
14203	<i>Stipa</i>	H.	
14204	<i>Cassia</i>	H.	F. y.
14205	<i>Soliches lablat</i> <i>arroy cocoa</i>	vine w.	F. w.
14206	<i>Calliandra</i>	T. 10-12'	F. p.
14207	<i>Gouania tomentosa</i>	vine w.	F. w.
14208	<i>Opuntia</i>	± 1'	
14209	<i>Cambretum</i>	S. 8-12'	F. y.
14210	<i>Serjania</i>	woody vine	F. w.

Nov. 6 thickets along R.R. east of Turbaco

edge of thicket

14211	Acacia	S. ± 6'		F. lar. p.
14212	Ruellia	H. 1½-2½'		F. y.
14213	Abutilon	H. 2-2½'		F. y.
14214	Panicum "cebollita"	H. 3-5'		F. pet. y. sta. w.
14215	Catesetum <del>sebolleta</del>	E. H.		F. pet. w. <sup>purple</sup> spotted within
14216	Alsine <del>volvulus</del>			F. pale-p. b.
14217		vine H.		
14218	Bauhinia	S. 12-15'		F. w.
14219	Heliotropium indicum	H. 1½-2'		F. y.
14220		T. 12-15' <sup>branches pendulous</sup>		F. cor. w. ant. y.
14221	Euphorbia	H. 1½-2' <sup>semi-succulent</sup>		F. w. <sup>note</sup>
14222	Tillandsia	EH		F. sta. w.
14223	Securidaca	H. 3-4'		F. w. prox. dist.
14224	Solanum	S. sub.-scam.		F. cor. p. <sup>prox.</sup> paler dist.
14225	Croton	H. 3½-4' <sup>woody at base</sup>		F. ant. w.
14226	(leg.)	S. 10-15'		F. cor. <sup>no prox.</sup> pur. dist.
14227	Calliandra	S. 3-6'		F. p.
14228	Ipomoea "campanita"	vine		F. light p.
14229	Cassia occidentalis "bichofargo"	H. 2'		F. w.
14230	Ipomoea	vine		
14231	Calliandra "beranero"	S. 4-10'		F. p.
14232	Ipomoea meyeri	vine		F. light p.
14233	Indigofera "añil"	H. 2-3'		
14234	Talinum "berdolaga"	H. succulent		
14235	Bauhinia "bejuco cadena"	(T.) 12-20'		
14236	Southampton "cagapajarito"	S. parasitic		
14237	Mimosa pudica <sup>var. de 4</sup> "senateputa"	H. semi-proc. leaves sensitive		F. p.
14238	Alternanthera "mano de dios"	S. spreading 8-12'		F. w. sta. w.
14239	Mimosa "beranero"	T. 9-12'		F. cor. vio. sta. y.
14240	Solanum "oja de luna"	S. 7-10'		F. y.
14241	†† Juffa "ayama"	vine		F. y.
14242	Securidaca? "botardeoro"	H. 2-3'		
14243	Cecropia "guarumo"	T. 10-20' <sup>ants in trunk</sup>		
14244	Ipomoea "bulto <del>lila</del> "	vine <sup>climbing on tops of trees</sup>		F. rich p.
14245	Psychotria (snake antidote)	S. 7'		

Edge of thicket

Nov. 7 R.R. tracks <sup>west</sup> ~~east~~ of Turbaco

Tomecilla.

clearing edge of woods

east of Turbaco

clearing woods

dense woods

Vertical column of numbers and symbols on the right margin, including a 'P' near the top.

14246	(Orchid)	E.H.					
14247	Cardiopernum	vine	h. tw.	F.w.		edge of woods	
14248	Serjania	vine	H.	F.w. greenish			
14249	Polynnia	"boton de oro"	H. upto 7'	F. rays y.			
14250	Melbania	"amoroso"	H. 1 1/2 - 2 1/2'	F. p.		roadside	
14251	(rubriceae)	"ray muciela"	S. 8-10'	F. pure w.		roadside thicket	
14252	Saracha	"cinarron"	H. semi-woody 4-5'	F. cor. w. Fr. r.		edge of woods	
14253	Sonovia	"lejania de perro"	vine	Fr. w.			
14254	Carica papaya	"papaya"	T. 9-20'	F.w.			
14255		"caba"	T. 20-50'	F. <sup>staminate deep pur.</sup> fr. strongly depressed	seed, globose, 12-ribbed		
14256	Bignonia	"beyico de agua"	vine	F. r. lvs. lvs.			
14257	Erythrina	" <del>bitel</del> " "pita"	T. 20'	seeds.			
14258	(euphorb.)		H. slender	F. gr.			
14259	Bignonia	"beyico de ojo"	vine, w.				
14260	Cayapana	"contra siempre"	vine, h.	F. cal. g.			
14261	Tillandsia	"civollete"	E.H.	F. cor. g.			
14262	Psychotria	<del>cebolleta</del>	S. 7-8'	Fr. r.			
14263	Pellacourea	"coal"	T. <del>8-12</del> 20-30'				
14264	Serjania		vine, w.	F.w.			
14265		"ojo de boey"	vine, w.	F. y.			
14266	Acalypha	"flor de tierra"	H. coarse				
14267	Calliandra		S. 4-10'				
14268	Piper	"cordoneillo"	S. 6-9'				
14269	Acalypha		S. 3-5'				
14270	Anitlochea	"capitans"	vine, <sup>h.</sup> <del>lvs. w.</del> <sup>lvs. w.</sup>	F. yellowish g.		long. striped with br. pur., cup deep pur. outside	
14271	Ipomoea		vine, h.	F. cor. pale p.		w. dist.	
14272	Sonolodus	"beyico corriente"	vine, h.	F. cor. grass g.		yellowish gr. within	
14273	Thevetia	"tomatillo"	S. 6-8'	Fr. y.		entrous, corona deepo.	
14274	Cassia		S. 4-5'	F. y.			
14275	mos						
14276	Diacorea		Vine				
14277	Tricin		vine, woody?				
14278	Cheripodium ambrosiodes		H.	Fr. g.			
14279	Argemone mexicana		H. 6"-2'	F. y.			
14280	Scoparia dulcis		H. 1-1/2'	F. light b.			

Nov. 8 Streets Turbaco



143156	Bactris	"lala"	Palm 4-7'	F. cor. w. 2 1/2-3 cm. w.
14317	(cucurb.)		vine	F. sep. purp. b.
14318	Sponia digitata		vine	F. cor. w.
14319	Cassia grandiflora		S. slender, difragely spreading	F. cal. glaucous
14320	"salsajuega"		S. slender	F. cor. y.
14321	Bradberia		S. stem erect, with winged branches	F. w.
14322	comp. "adonquifera"		vine, herbaceous	F. stand. w. pink tinged interior, pink within marg. deep pur. at center.
14323	Fumastrum		H.	unm. dark
14324	Serjania		vine, herbaceous	cor. g. tinged with red, w. within
14325	Meliaceae		H. 4-8' erect, few-branched	F. w. cor. pet. p.
14326	Bombax	"larga"	T. 40'	F. sep.
14327	(euphorb.)		S. 12-15'	F. pet. p. sta. r.
14328	Operculina		V. herbaceous	
14329	Passiflora suberosa		V. herb.	F. gr. y.
14330	palm "matamba"		P. ± 4'	
14331	Cardiospermum "lepuco de globo"		V. h.	F. w. Er. gr. pap. cry.
14332	Acalypha "bara de alcaldes"		S. 3-5'	
14333	Tabernaemontana "solita"		S. 8-12'	
14334	Mimosa		H. 3' few-branched	F. pale y.
14335	"agoloncillo"		T. 40'	Fr. sharply 5-angled
14336	Metistelma "matavini"		V. herb. milky sap	F. cor. grassy.
14337	Styrax "platiao"		S. 4-6' low, much branched, leaves silvery	F. corona g.
14338	Calliandra "tiraco"		S. 8-12'	leaves beneath white beneath
14339	Hylocereus "cador"		H. 1/2-1 1/2'	F. sta. rich p.
14340	Sponia "campanita lila"		V. twining	cor. w. prox, deep pur. dist.
14341	Acalypha		S. 6-8' spreading	infl. g.
14342	Attemanthera "belita"		H. woody below	F. w.
14343	Calliandra		H. 5-6' woody only at base	sta. w.
14344	Zalium paniculatum		H. succ. 3'	cor. vi.
14345	"campano"		T. 50-100'	ant. bla. or. r.
14346	Zelmya "fringamosa colorada"		H.	
14347	Mirabilis jalapa		H.	F. tube w. lobes p.
14348	"cedro"		T. 30-40'	
14349	"nauon"		T. 40-60'	
14350	Polkadendron		epi. on 349	F. f.

Mar. 8	roadside thicket	along fence		u	
		thicket		u	
		roadside		u	
Nov. 9	roadside	Turbaco	5-2,3	u	P. 2
	thicket	between Tur. and		u	
		hacienda de		u	
		Coloncito		2	
	roadside			u	
	thicket			u	P. d-6
	roadside			u	
	thicket			u	
	roadside			u	
	thicket			u	
	roadside	Coloncito		2	P. e. 1, 2.
				u	
				u	
				u	P. e. 3
				u	P. 2 e. 4, 5
				u	

14351		" <i>aprapote</i> "	T. 30-40'	cor. tube w, lobes g.	Nov. 9	Coloncito	u	14351
14352	moos		on limestone			Coloncito	u	14352
14353	<i>Pilea microphylla</i>		on wet rocks				u	14353
14354	<i>Hedychium</i>	" <i>heliotropo</i> "	H. 3-4'	F.w.		marshy bank of stream	u	14354
14355	<i>Lorostema</i>		H.			woods	u	14355
14356			V. rooting at nodes, climbing closely appressed to large trunks				u	14356
14357	<i>Panicum trichoides</i>	" <i>paga con ego</i> "	H. <sup>depart at base</sup>				u	14357
14358	<i>Lyopoteris</i>		F.				u	14358
14359	<i>Microtea debilis</i>		H. semi-pro.	F. gr.			u	14359
14360	moos		on decayed wood				u	14360
14361	moos		on decayed wood				u	14361
14362	<i>Adiantum</i>		F.			wooded banks of stream	u	14362
14363	<i>Heliconia</i>	" <i>bilao camaron</i> "	H. 3-4'	bracts o. calyx erect	perianth gr.		u	14363
14364	<i>Acalypha</i>	" <i>bara de acaldi</i> "	S. slender 4-5'			woods	u	14364
14365	<i>Lalechampia scandens</i>		V. herb. turn.	invol. g.			u	14365
14366		" <i>boio limpio</i> "	T. 12-15'	Fr. o.			u	14366
14367	<i>Paspalum</i>	" <i>churo</i> "	H.			along trail - clay soil	u	14367
14368	<i>Calliandra</i>	" <i>beranero</i> "	H. coarse	sta. w.		thicket	u	14368
14369	<i>Metastelma</i>		U. herb.	cor. g. corolla pur.			u	14369
14370	<i>Prestonia</i>		V. turning	cor. tube w. lobes w, center g.		woods	u	14370
14371	<i>Asclepias curassavica</i>	" <i>galle</i> "		cor. scar. corolla y. sta. w.			u	14371
14372	<i>Mimosa</i>		S. 5-7'				u	14372
14373	<i>Tournefortia</i>		S. <sup>branches somewhat</sup> scandent	cor. w.			u	14373
14374	<i>Paullinia</i>	" <i>beyuco prieto</i> "	V. scandent	Fr. light r.			u	14374
14375	<i>Annona</i>	" <i>anon liso</i> "	T. 40-70'			cleaning in garden (but said to be native in vic.) in field	u	14375
14376			V.	F.w.			u	14376
14377		" <i>anajjaru</i> "	T. 40-50'				u	14377
14378	<i>Boerhaavia</i>		H.	F. p.			u	14378
14379	<i>Indigofera</i>	" <i>amil</i> "	H. coarse	F. p.			u	14379
14380	<i>Bignonia</i>		S. 6-8'	F. y.			u	14380
14381	<i>Acacia</i>		S. 7-10'	F. w. (Fr. sep.)		thicket between Tur. & Bol.	u	14381
14382			V. <sup>+</sup> spreading.				u	14382
14383	<i>Crotan</i>		S. 8-10'				u	14383
14384	<i>Southanthus</i>		F. S. <sup>branches 2-2 1/2'</sup> stem simple				u	14384
14385	<i>Acalypha</i>		S. 9' up to 6'; branched above.	bracts g.		Turbaco	u	14385

e 6.  
P.

S 2 P.

14386	<i>Lycopersicon</i>	"algodon"	S. low	act. prox yellowish F. upper $\frac{2}{3}$ p.	Nov. 10	Turbaco	u	8851
14387	<i>Rhynchospora</i>		S. 5-6'				u	8852
14388	<i>Calliandra</i>		H. to 3 $\frac{1}{2}$ '	infl. g.	Nov. 11	thicket edge of woods.	u	8853
14389	<i>Amaranthus</i>		H.				u	8854
14390	<i>Boraria</i>		S. 7-10'	drooping branches Fr. curved			u	8855
14391	(rub.)		T. 7-8'	stem simple, leafy at summit.			u	8856
14392	<del>Carex</del> <i>Carex</i>	"papaya de montaña"	V. woody		F. racemes up to 4 cm. l.		u	8857
14393	<i>Psychotria</i>		S. 6-8'				u	8858
14394	<i>Trema micranthum</i>		T. 12-15'				u	8859
14395			T. small				u	8860
14396			T. 12-20'				u	8861
14397	<i>Palicourea</i>		V. herb.				u	8862
14398	<i>Passiflora subpeltata</i>		T. 15-20'	F. Y. g.			u	8863
14399			V. herb.	F. w.			u	8864
14400	<i>Sirjania</i>		Palm 7'	leaves arising at base			u	8865
14401			Palm stem 3 $\frac{1}{2}$ '	petioles 3 $\frac{1}{2}$ '			u	8866
14402			S. 4-5'	cor. g. lobes reflex. F. stem w. Fr. light r.			u	8867
14403	<i>Solanum</i>		on decaying log.				u	8868
14404	moss		on soil				u	8869
14405	moss		T. 40-50'	Fr. bl. lustrous			u	8870
14406	<i>Solanum</i>		V. herb.	Fr. light r.			u	8871
14407	<i>Panicum trichoides</i>		H. repeat at base				u	8872
14408	<i>Stipa</i>		H.		field		u	8873
14409	<i>Nyctocereus</i>		cactus $\pm 2'$		dense woods		u	8874
14410	<i>Epiphyllum</i>		Cac. in trees				u	8875
14411			P. trunk 5' petioles 2-3 $\frac{1}{2}$ '				u	8876
14412			S. much-branched				u	8877
14413	<i>Piper</i>		S. 5-10', stem slender				u	8878
14414			T. 12-15'				u	8879
14415	<i>Passiflora coriacea</i>	"bejuco de blalijito"	V. herb.	F. sep. gr. without F. corona yellowish	w. within		u	8880
14416			S. 5' stem simple, leafy at summit				u	8881
14417	<i>Phyllodeudron</i>		V. scandent on trees				u	8882
14418	<i>Coccoloba</i>	"huita de playa"	T. 20-25'		field		u	8883
14419	<i>Cesalpinia</i>	"acacia"	T. 50-60' crown wide spreading, trunk 2 $\frac{1}{2}$ ' diam.				u	8884
14420	<i>Strophanthus</i>		E. H. on Acacia				u	8885





14456	Acacia		T. 10-20'	
14457	Cyperus virens		H.	
14458	Cyperus ferox		H.	
14459			trunk 2-10'	
14460	Polypodium		leaves 20', stipe 4-6'	
14461	Cyperus		F. at trunk of 14459	
14462	Cassia		H. 3-6'	F. y.
14463	Zimbristylis		H.	
14464	Securidaca		S. 10-15'	sepals cream pet. yellowish g.
14465	Quamoclit		V. herb, twining	
14466	Bemisia		T. 15-20'	F. r.
14467	Duranta		S. 8-10'	Fr. o.
14468	Latura		S.	caly. purple without, yellowish cor. purp. without, yellowish
14469			H. coarse	
14470	Pilea microphylla		H.	
14471	Meibomia	"amor seco"	H. 1-3'	F. b.
14472	Anona	"avon de veruga"	T. 15-20'	
14473	Olyra		H.	
14474	Sponsea		V. herb. twin.	F. pale lavender
14475	mos		on rocks	
14476		"namay"	T. 60-75'	Fr. edible
14477	Dioscorea	"pringamora"	H. herb.	F. g.
14478	Jatropha urens	"prulga mora blanca"	H. 3-6'	F. w.
14479	Passiflora suberosa		V. herb.	F. g.
14480	Commelina	"sueda con sueda"	H.	F. peri. light b. sepallets white
14481	Cassia	"chiliveto"	T. 20-25'	
14482	Acacia	"zarga"	S. sub-sean. to 10'	F. said to be w. in April
14483		"sacapedarda"		cream within } both fleshy Fr. edible, to 40 cm. l.
14484		"guanayana"	T. 20-35'	F. sep. yellow outside pet. g. within
14485		"nispero"	T. 40-50'	Fr. edible
14486		"achote"	T. 10-20'	F. fil. y. at base
14487		"caineto"	T. 70-90'	Fr. edible 1.5 cm. diam.
14488		"dancello"	T. 50-60'	
14488	Telona		T. 15-20'	F. cor. y.
14489	Cesalpinia		S. 4-8'	F. pet. y.
14490	algae			

		marsh between Tur. + Los Volcanos.		
		circum. of stipe at base, 9" swamp.		
		mature fr. o.		
		marsh field		
		in mud		
		roadside between Tur. + Vol.		
		thicket		
		Turabaco		
		cultivated		
		Mar. 13		
		Turabaco		
		g. within, to white.		
		"		
		"		
		Mar. 14		
		thicket		
		woods		
		s.e. of Turabaco		
		thicket		
		woods		
		thicket		
		roadside		
		thicket		
		roadside		
		thicket		
		consuan		
		cream within } both fleshy Fr. edible, to 40 cm. l.		
		clearing		
		"		
		"		
		woods		
		in garden		
		"		
		Mar. 12		
		in mud + water of		
		Los Volcanos		

- 14491 *Malvastrum*  
 14492 *Eupatorium odoratum*  
 14493 *Stachys*  
 14494 *Mimosa*  
 14495 \_\_\_\_\_  
 14496 *Cyperus*  
 14497 *Philodeudron*  
 14498 *Abutilon*  
 14499 *Epideudrum angustifolium*  
 14500 *Acacia fleuitans*  
 14501 *Acacia*  
 14502 *Sida paniculata*  
 14503 *Abutilon*  
 14504 *Lemna*  
 14505 algae  
 14506 *Melia*  
 14507 *Stigmaphyllon*  
 14508 *Stigmaphyllon*  
 14509 *Amaraphia*  
 14510 *Mimosa*  
 14511 *Operculina*  
 14512 *Cestrum*  
 14513 *Tasaccis*  
 14514 *Serjania*  
 14515 *Amorpha*  
 14516 *Justicia*  
 14517 *Cassia grandiflora*  
 14518 *Lippia*  
 14519 *Cuphea*  
 14520 *Tradescantia*  
 14521 *Galactia*  
 14522 *Evolvulus*  
 14523 *Bignonia*  
 14524 *Stigmaphyllon*  
 14525 *Microtea debilis*

H. coarse. F. pet. pale y. scar at base within  
 H. coarse 2-5' F. cor. 8 fil. pale lilac  
 H. coarse 2-5' F. cor. lobes light b, white at center.  
 T. 10-15' F. sta. w.  
 H. proc. F. cor. b.  
 H.  
 H. climbing on tree trunks  
 H. coarse 2-6' F. pet. y.  
 E. H. floating in pond, stem hollow, 5 mm. unreddi covered with cotton-like covering total diam. 1 1/2 cm.  
 E. T. 15-20'  
 H. coarse 2-6' F. pet. w.  
 H. coarse 2 1/2-5' F. pet. light y.  
 Aquatic, floating on muddy bottom  
 S. 5-12' Fr. dark r.  
 S. 2-4' F. pet. bright y. base o.  
 V. herb. twin. F. pet. y.  
 V. woody F. stem + wings or y.  
 V. herb. F. keel g.  
 V. herb. F. sta. w.  
 V. herb. E y  
 S 7-10', <sup>erect</sup> E cream-y  
 V. herb. fr. green  
 V. woody P. w  
 S 7-12' <sup>erect</sup> Fr. purp. when ripe  
 S erect, 3-5' E scarlet  
 S or low 8-15' F light y  
 H ± woody 3-5' E w  
 H much-branched P light bl  
 H succulent Per. w  
 V. herb. twining F stem + wings violet  
 H-prost. C-blue  
 V-woody Fr. green  
 Subsc. shrub Pet. y  
 H stems weak F-green

→ gynophore scar. prox, pale y. dist.

Nov. 15. roadside northward from Arjona 30-50 m.  
 sandy soil  
 thicket roadside  
 thicket edges of muddy pond roadside

edges of muddy pond  
 thicket

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14526	<i>Selenicereus</i>	Succulent; <sup>subcaudex</sup> on tree trunk	Fr. green all fl. part greenish-y
14527	<i>Bignonia</i>	V-woody	F-purple (dry)
14528	<i>Acacia</i>	T-12-20'	P-gr.-w.
14529	<i>Tillandsia</i>	H-Epiphy.	C-wh.
14530	<i>Tillandsia</i>	H-Epiphyt-4'	F-tube or lobes or.
14531	<i>Metastelma</i>	V-herb.	F-Cor. w., anthers purple
14532	<i>Jacquemontia</i>	V-herb.	F-st. of calyx wings white
14533	<i>Lantana camara</i>	S-2-6'	F-Calyc tube green, lobes w.
14534	Sarache "aji picante"	H coarse 2-4'	F cor. y-g corolla ivory-w.
14535	<i>Scaevola</i>	S becoming scandent	F Pet. y, base purple
14536	<i>Bignonia</i>	V-woody	calyx green, pink-tinged
14537	<i>Metastelma</i>	V-herb	Plant bright green
14538	<i>Turnera</i>	H-woody at base	9 invol. red-purple floral blue-purple
14539	<i>Carnegiea</i>	succ. cactus 3-20'	F-Cor rich pink, pale distal
14540	<i>Solanum</i>	H coarse, woody at base 4-5'	F Cor. lavender
14541	<i>Aristolochia</i>	V-herb.	Fr. obconic, wood used for rafters
14542	<i>Phoradendron</i>	Epiphy. S.	F-C. w. within, pink within?
14543	<i>Bauhinia</i>	T-12-15'	F-Cor. light pink
14544	<i>Veronica</i>	H-woody at base 2-3'	F-P. y.
14545	<i>Ipomoea</i>	V-twining	Br. base - pink, darker stripes; anthers yr.
14546	Comp.	H-coarse woody at base	F-Cor. y
14547	<i>Ternstroemia "olla de mono"</i>	T	F-Cor. w, pink-tinged out
14548	<i>Solanum</i>	H 2-3.5'	F-Cor. rich pink (see note)
14549	<i>Jacquemontia</i>	V-twining	F Cor. y. anths. gr.
14550	<i>Melastoma</i>	H-coarse	
14551	Comp.	H " 5' odor fetid	
14552	<i>Bignonia</i>	V-woody	
14553	"	V- "	
14554	"	V- "	
14555	" <i>simplicifolia</i>	V- "	
14556	<i>Bryza nativa</i>	Grass 3'	
14557	<i>Solanum</i>	H coarse, woody at base	F-Cor. light purp. anths y
14558	<i>Paspalum</i>	H-2-3'	
14559	<i>Aeschynomene</i>	H erect 2-4'	F (see note)
14560	<i>Mimosa</i>	H stem viscous 1.5-3', woody base & branched at	F-Pet. gr, stam. w.

Nov. 15 Thicket, northward from Arizona.

anthers y, prox., w. dist. Edge of corn field

In corn field  
Edge of corn field  
In marsh

anths. y.

Pe-1

14561	<i>Cracca</i>	S-3'	F. all parts light pink
14562	<i>Baccharis</i>	S-3-8'	
14563	<i>Tillandsia</i>	Epiphyt. H	
14564	<i>Crotalaria anagyroides</i>	H-Coarse	F. (see notes)
14565	<i>Opuntia</i>	4-8'	
14566	<i>Cyperus</i>	H	
14567	<i>Synerisma</i>	H. rooting in mud	
14568	<i>Paspalum</i>	H	
14569		H	sta. y.
14570	<i>Polygonum</i>	H 2-5' <del>l.</del>	F. per. g. sta. w.
14571	<i>Malachra</i>	H. coarse 3-6'	F. y.
14572	<i>Mikania</i>	V. herb.	F. cor. w.
14573	<i>Jussiaea</i>	H. coarse 3-6'	F. cor. y.
14574	<i>Cassia</i>	H. 2-5'	F. cor. y.
14575	<i>Purpurea azurea</i>	H. rooting in mud	F. cor. tube g. lobes violet
14576		H.	F. cor. violet, paler prox.
14577	<i>(Lacustris) Oocarpa</i>	H. floating on sur.	
14578	algae	growing on floating plants, sticks, etc.	
14579	<i>Paspalum</i>	H. pro. on sur. rooting in mud.	
14580	<i>Alternanthera</i>	H. pro.	F. pet. w, ant. y.
14581		T. 10-12'	F. pet. y.
14582	<i>Scaevola Scoparia</i>	H. woody at base	F. pet. w.
14583	<i>Hyptis</i>	H. coarse, 3-6'	F. cor. w.
14584	<i>Crotalaria</i>	H. ± 1'-2'	F. cor. y.
14585	<i>Acacia</i>	T. 10'	F. sta. y.
14586	<i>Talinum</i>	H. 1'	F. cor. pur. ant. y.
14587	<i>Ruprechtia</i>	S. 10-15'	F. pet. pale g. sta. w.
14588	<i>Tsitticanthus</i>	E. H. woody at base. branches drooping, 2-10'	F. cor. g. imp. trifid dist.
14589	<i>Cucurbita</i>	V. woody at base	F. cor. y.
14590	<i>Cissus</i>	V. woody at base	Fr. b.
14591		floating	
14592	<i>Piaropus crassipes</i>	floating	
14593	<i>Acacia fluitans</i>	floating	
14594	<i>Acalypha</i>	H. ± 1'	
14595	<i>Cassia</i>	S. or coarse H. 2-8'	F. cor. or. in mud 2-4' water

Nov. 15 Thicket, northward from Arizona.

Along r.r. Arizona  
Used as fence  
Along r.r.

Mar. 16 borders of The Ligne southward from Soplaviento 5-10m.

clearing near Ligne

thicket

borders of Ligne

swampy pond near Ligne

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14631 Icica  
 14632 Bauhinia  
 14633 Lalechampsia  
 14634 Bignonia  
 14635 Meibomia  
 14636 ~~Sauvegrasia~~  
 14637 Serjania  
 14638 Oplocaulina  
 14639 ~~Mitella~~ Sytherisma  
 14640 Paaplum  
 14641 Meibomia  
 14642 Tripsacum  
 14643 Eclides  
 14644 Quamoclit  
 14645 Sicyos  
 14646 Crechites  
 14647 Solanum  
 14648 Peperomia  
 14649 Cypripis  
 14650 Passiflora biflora  
 14651 Calliandra  
 14652 moss  
 14653 (rub.)  
 14654 Ipomea  
 14655 Dioscorea  
 14656 Atrium  
 14657  
 14658 Asplenium  
 14659 ~~Atrium~~  
 14660 Atrium  
 14661 Atrium  
 14662 Bradena  
 14663 Plus  
 14664 Acalypha  
 14665 Vernonia

T. 40-70' F. pet. w. 0 cm. wide. sta. light gr. w.  
 S. slender with F. pet. w.  
 S. sub. scan. br. F. bracts pale g.  
 V. herb. F. cal. tube g. lobes w.  
 V. herb. w. F. stan. 6 unis purp. dist. w. pros.  
 F. keel. w. plant viscos.  
 H. coarse, few F. pet. pinkish w.  
 H. branched V. woody, climbing F. pet. pure. w.  
 V. tops of trees F. cor. salmon col. dist. pale  
 V. herb. F. calyx gr. pros. salmon dist.  
 H. reptant at base  
 H. branched at base F. stan. 6 unis - pinkish purp.  
 H. branches recumbent F. keel. w.  
 H.  
 V. herb. F. cor. y. g.  
 V. herb. F. cor. r.  
 V. herb. reptant F. cor. y.  
 V. rooting at nodes  
 H. coarse F. invol. g. rays light y.  
 H. 4-5' F. cor. w. act. w.  
 H. coarse F. cor. w. act. w.  
 H. succ. reptant in detritus  
 H. in crevices of limestone rocks.  
 H.  
 V. herb.  
 S. 3-6' F. sta. w. (sta. divergent in late afternoon)  
 on soil, side of ditch  
 T. 30-40' Fr. red with milky sap.  
 V. herb. pros. F. w.  
 V. in grasses  
 V. herb. drooping F. sta. w. to green and  
 H. leaves to 4' 1/2' w. F. pinnate l.  
 H. in crown  
 T. 10-15' 6" diam.  
 F.  
 H. reptant at base  
 V. climbing on tree trunks  
 V. climber  
 V. herb. low F. stan. w. without w. act. thin rich purp. at center  
 F. unis w. purp. at apex. keel. w. 19  
 T. 20-30' F. pet. w.  
 S. 4-6' simple stem F. yellowish g.  
 S. 4-6' erect F. invol. deep r. purp. sta. w.  
 H. 4-7' F. deep purp. chr. pistil purp.

Nov. 17 thickets between Tur. & Torrecillo  
 w. pros.  
 dry pros. outside. inside: dull salmon fruit quarter y. second quarter, lustrous salmon 3rd quarter y. pros.  
 roadside  
 limestone rocks, edge of woods  
 purple purp.  
 limestone rocks, edge of woods  
 edge of woods.  
 thickets  
 edge of woods.  
 Torrecillo  
 purple dotted, fleshy limestone rocks in dense woods  
 limestone soil " " "  
 " rocks " " "  
 " soil " " "  
 " " " " "  
 " " " " "  
 thin rich purp. at center → field  
 keel. w. 19  
 Nov. 17 edge of woods Torrecillo  
 thicket  
 pistil purp.

Vertical column of small handwritten notes and marks, possibly a checklist or index, with some larger notes like "Torrecillo" and "J-1".

14666 (Comp.)  
 14667 Solanum  
 14668 Tomnefortia  
 14669 (malpigh)  
 14670 Costus  
 14671 (hepatic)  
 14672 Sterculia "achote de monte"  
 14673 (rub.)  
 14674 ~~Lichen~~  
 14675 lichen  
 14676 moss  
 14677 Cyclopettis  
 14678 (apoc.)  
 14679 (euphorb.)  
 14680  
 14681 Jasianis  
 14682 Plumieria  
 14683 Wissadula  
 14684 Dioscorea  
 14685 Solanum  
 14686 Cassia  
 14687 Stachys "baca monte"  
 14688 Leonurus  
 14689 (malpigh.)  
 14690 Pilea bernarioides  
 14691 Ipomea carnea  
 14692 Bauhinia  
 14693 Ipomea  
 14694 Eupatorium  
 14695 Halbergia  
 14696 Amyris  
 14697  
 14698  
 14699 Eupatorium  
 14700 Acacia

H. coarse invol. light g. rays. w. style  
 6-10' heads w. ~~purple~~ flor. g. w.  
 S. 6-9' F. cor. w. ant. y.  
 S. branches ~~to y. l.~~ F. cor. tube g. lobes w.  
 S. sub-scan to y. l. F. pet. y.  
 S. 4-8' elongated branches F. Fr. with p. wings  
 H. coarse F. lvs. p. prox.  
 2-4' F. g. dist. lvs. trans.  
 on tree trunks  
 T. 20-40' med. (spec. from cut  
 apparently T. size (branches on ground) Fr. r.  
 T. 40-60'  
 on tree trunks  
 on limestone rocks  
 F. fronds to 5' l. cor. tube y. g.  
 Y. herb. turn. F. lobes w.  
 T. 30-40' Fr. 3-lobed  
 T. or S. (spec. from broken branches)  
 V. herb.  
 S. 4-7' F. cor. pale y.  
 H. coarse 2-4' F. pet. + da. o. y.  
 stem erect  
 V. herb. ~~dependent~~ dependent fr. branches  
 S. 5-8' F. cor. w. ant. y.  
 slender, bran. F. 6 1/2 cm. wide  
 T. 10-12' at top pet. y.  
 H. 1-2' much F. upper lip p. lower w.  
 coarse F. tube + upper lip p.  
 2-5' F. lower lip purp.  
 S. 4-8' F. pet. y.  
 H. in crevices of limestone rocks  
 stem filiform. semi-proc.  
 V. herb. F. pur.  
 S. 5-10' F. 4 pet. pure w.  
 5th w. streaked with de sp p.  
 V. herb. F.  
 somewhat F. lvs. greenish  
 V. woody F. lvs. greenish  
 S. 5-7' F. pur.  
 T. 15-20' branches F. sepals  
 drooping F. green. g.  
 S. 6-10'  
 floating  
 H. coarse much branched F. invol. light g. darker tips.  
 woody at base 4-8' F. fls. w.  
 S. or T. 8-15' lvs. flowers ~~purple~~ pure w.  
 Nov. 19 thicket  
 Nov. 20 thicket n. of Turbaco  
 Nov. 21 in mud Las Volcanes  
 Nov. 22 thickets n. of Turbaco  
 Nov. 23 thickets along river, 22m. Colanar

Nov. 19 thicket  
 Tomecillo  
 Nov. 20 thicket  
 n. of Turbaco  
 Nov. 21 in mud  
 Las Volcanes  
 Nov. 22 thickets  
 n. of Turbaco  
 Nov. 23 thickets along river,  
 Colanar



form ~~is~~ infected with *Braconia uncorerata* (described)  
*Cissus sicyoides* L. *Spondylanthus aphylla* Presl

14701	<i>Solanum</i>	H. 4-6	egone woody at base	F. cor. w. pinkish tinged without.
14702	<i>Stacya</i>	H. 2-4	coarse, few-bran.	F. cor. light b.
14703	<i>Artidaphne</i>	E.H.	succulent	F. buds g.
14704	<i>Vitis triloba</i>	V.	herb.	F. y.g.
14705	<i>Passiflora hispida</i>	V.	herb.	Fr. g.
14706	<i>Mimosa "trupilla"</i>	S. 8-15'		F. pet. gn. w. sta. pi. w.
14707	<i>Cordia "urita"</i>	S. or T. 6-20'		F. cor. cream w.
14708	<i>Furcraea</i>	V. herb.	sup. milky	F. cor. light g. without w. without
14709	<i>Convolvulus</i>	V.	subhirscent	F. cor. w.
14710	<i>Milsonia</i>	V.	herb.	F. invol. light g. paler
14711	<i>Licliptera</i>	H. 2-4'	some what succ.	F. dist. flowers w.
14712	<i>Croeca</i>	H. 2-4'		F. cor. pur. paler without
14713	<i>Spongea polyanthes</i>	V.	herb. twin.	F. invol. g. y. keel w.
14714	(small.)	H. 4-6'		F. cor. y.
14715		V. herb.		F. pet. fine w. prophylls
14716	<i>Juffa</i>	V. herb.		F. cor. gr. w. without
14717	(comp.)	H. coarse 1-3'		F. y. g. dist. within
14718	<i>Paspalum</i>	H. to 3'		F. cor. y.
14719	<i>Rianthera</i>	H. 1-3'		F. invol. g. flowers w.
14720	<i>Juffa</i>	V. herb.		F. cor. p. w.
14721	<i>Petunia</i>	S. 4-6'		F. cor. y.
14722	<i>Braberia</i>	V.	herb. twin.	F. invol. w. p. ting. without
14723	<i>Zalium</i>	H.		F. pet. p.
14724	<i>Melia ayederach</i>	T. 20-30'		F. pet. w. ting. with base
14725	<i>Alternanthera ficoidea</i>	H. pros.		F. g. to w.
14726	<i>Ceiba pentandra "ceiba blanca"</i>	T. 80-150'		F. invol. p. beneath yellowish w.
14727	<i>Canna</i>	H. 4-10'	leaves to 4'	
14728	<i>Kryphiess</i>	F.		
14729	<i>Aegiphila</i>			Fr. y.
14730	<i>Polypodium</i>	F.	in crotch of tree	
14731	<i>Gatrophia</i>	V. herb.	coarse H.	
14732		H. 5-8'		F. invol. p. beneath r.
14733	<i>Piper</i>	H. 2-4'		F. spikes grayish w.
14734	<i>Passiflora</i>	V. herb.	w.	
14735	<i>Calathea</i>	H. 4-10. to 5'	leaves	F. invol. g. to b. beneath y.

aut. y. prox. w. dist. Mar. 23 thickets along River - Calauran

leaves used to scrub pans corona w. lustrous

aut. b. upper lip transversely w.-bordered at centre. within

sta. y. Nov. 24 thickets - w. of Calauran

5-red-striped box. corona. g. p. in ditch

thickets

wings w. per. tipped keel w. Mar. 246 thicket. Cl Banco column low. to deep pur. bird-like

Nov. 26 riverside Samarra (Magd. Dept.)

Nov. 28 thicket along stream Puerto Wilches 105 m.

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14771 Solanum  
 14772 Cyperus leyzellae  
 14773 ~~Trianthema~~  
 14774 ~~Cestrum~~  
 14775 Commelina  
 14776 Bradberia  
 14777 Physalis  
 14778 Ipomoea polyarrthes  
 14779 Jussiaea  
 14780 Passiflora  
 14781 Utricularia  
 14782 Cassia  
 14783 Cyperus diffusus  
 14784 (amarant.)  
 14785 Sacciolepis  
 14786 grass  
 14787 Maranta  
 14788 Mimosa  
 14789 Salicornia  
 14790 Sterculia  
 14791 Ceratopteris  
 14792 Rynchospora corymbosa  
 14793 Utricularia  
 14794 Hyptis  
 14795 Rhynchosia  
 14796 Abutilon  
 14797 Fimbristylis  
 14798 Mimosa  
 14799 Piper  
 14800 Passiflora grayanaefolia  
 14801 Polygonum  
 14802 Hiraea  
 14803 Eupatorium odoratum  
 14804 Acacia  
 14805 Oldenlandia

S. sub-scand.  
 H.  
 H. repent, bran. f. ludo gr. w.  
 H. erect, succ.  
 S. scand. Fr. g.  
 H. ± 2' F. oper. p. w.  
 V. herb. F. stan. w. without deep p. in  
 F. pur. stripe near center  
 H. F. cor. gr. y. purp. spotted  
 at base in  
 V. herb. F. cor. y.  
 H. coarse F. pet. y.  
 H.  
 H. floating F. cor. y.  
 S. 7-10' upright- F. pet. y.  
 bran.  
 H. damp soil  
 S. 8-12'  
 H. 3-4' repeat at base  
 H. 6-8'  
 H. coarse f. cor. bl. p.  
 H. 4-6'  
 H. semi-proc. F. sta. w.  
 H. 1-2'  
 floating on surface  
 H. 2-3' F. pet. rich p.  
 rooting in mud  
 H. coarse  
 H. 3-5'  
 H. F. cor. light b.  
 H. sub-proc. F. cor. light b.  
 H.  
 H. coarse woody f. pet. pale y.  
 H. at base  
 H. in sandy soil  
 H. somewhat F. sta. w.  
 H. woody 2-8'  
 S. few-bran. F. spikes w.  
 S. 2-3'  
 V. herb. F. bracts light g. free to base  
 F. all fl. parts w. except  
 H. F. w.  
 S. 3-5' F. pet. y. Fr. bright r.  
 S. 5-8' F. bracts g. darker dist.  
 S. 7-10' F. cor. red  
 F. sta. w.  
 H. proc. F. cor. light b.

Nov. 20 banks of stream

P. W.

at center thickets along river  
wings pale p. keel w.

in ditch  
 thickets along r. clearing  
 in ~~marsh~~ marsh  
 thickets along r.  
 ditch  
 thickets along r.  
 in marsh

clearing  
in marsh

~~clearing~~ marsh  
 clearing

damp thicket  
 in marshy land  
 other descr. on sheet  
 g. sepal arm + stig. thicket, low bushes  
 in marshy land

marshy thicket  
 along R.R.

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14806 *Nyctis* H. 3-4' F. cor. bl. wv.

14807 *Bidens primatifida* H. ± 2' F. rays light y. cor. deep. y.

14808 palm P. trunk 25' 2 1/2" diam. stipe 3-3 1/2'

14809 palm P. trunk 12' very spiny. frond: stipe 3' blade up to 10' trunk 3-4" diam.

14810 *Hibiscus* H. ± 2' F. light y. nest, light

14811 *Passiflora curvica* M. herb.

14812 *Ryncospora globosa* H.

14813 grass H.

14814 *Urena schultesia* H. rooting in F. cor. p. l.

14815 *Fantana canara* S. low, with herb. F. cor. light r. branches

14816 leg. V. herb. high stem red. purp. at center in, climbing F. unisp. + keel purp.

14817 *Souania* V. herb. F. pet. w.

14818 amaranth. H. proo. branches F. greenish close to ground

14819 *Pityrogramma calouelepa* F. S. 8-10' F. lvs purp. w. lectre dark g.

14820 *Castilia* H. rooting in mud, water 2' deep. F. sta. w. leaves floating

14822 *Pourouma* "lechero" T. 4-8' leafy stem simple, straight 2" diam.

14823 *Passiflora quadranglana* V. herb. much- main stem 1 1/2" diam.

14824 *Cordia* S. 6-8' bran. F. cal. light g.

14825 *Eragrostis* H. coarse, woody F. pet. p. gynoph. r.

14826 *Urena lobata* H. at base 4-8'

14827 *Meibomia* H. proo. F. pet. b.

14828 *Gonia* H. proo. F. pet. y.

14829 *Cyperus matsii* H.

14830 *Sellaginella* F.

14831 *Salpichlaena volubilis* F. twining around small trees, etc.

14832 *Phyllodesandra* V. climbing tree, F. spikel. light g.

14833 *Adiantum* F. trunks

14834 (velas) H. F. pet. b. sta. w.

14835 *Miconia* S. 3-8' F. pet. + sta. w. Fr. b.

14836 *Alsophila blechnoides* F. bands in a crown

14837 *Lindsaya lancea* F.

14838 *Trichomanes pinnatum* F.

14839 moss.

14840 (rub.) S. 4-8' on decaying wood. Fr. cor. apparent. out.

Nov. 28 in marshy land P. W. clearing jungle

Nov. 28 in marshy land P. W. in upper half. clearing

Nov. 28 in marshy land P. W. clearing

Nov. 28 in marshy land P. W. edge of woods, forming dense mass. clearing.

Nov. 28 jungle small pond woods

Nov. 29 thicket Station "Kilometer 16" P. W. to P. Santos 110-115m. clearing

Nov. 29 woods dense woods

Nov. 29 densely forested stream banks

Nov. 29 dense woods stream banks

Nov. 29 dense woods

P.L. 6

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- 14911 *Lepidoptera*
- 14912 *Maunettia*
- 14913 *Jussiaea*
- 14914 *Eleocharis*
- 14915 *Cyperus lasiocarpus*
- 14916 *Torenia*
- 14917 *Psychotria*
- 14918 *Mimosa*
- 14919 *Cassia*
- 14920 *Mikania*
- 14921 *Mikania*
- 14922 *Casipouia Poinciana pulcherrima*
- 14923 (leg) "guano"
- 14924 *Lycopodium simulata*
- 14925 (melast.)
- 14926 ~~Rumex crispus~~ (euphorb.)
- 14927 algae
- 14928
- 14929 *Maunettia*
- 14930 moss
- 14931
- 14932 *Lpomea*
- 14933 *Dioclea caerulea*
- 14934 *Pectis*
- 14935 *Celastandra*
- 14936 *Dianthus*
- 14937 *Furcraea*
- 14938 *Acacia*
- 14939 *Palicourea*
- 14940 *Oxyanthus*
- 14941 *Hibiscus*
- 14942 *Jacquemontia*
- 14943 *Piper tuberculata*
- 14944 *Tournefortia bicolor*
- 14945 *Passiflora mexicana*

H pro, some-  
 H. 4-7' what woody f. stem. + unig. deep pur.  
 S. 4-7' f. keel w.  
 H. 4-8' coarse, woody at base (F. pet. y. branched above middle)  
 H. 1/2-3'  
 H.  
 H. slender F. ped. + cal. r.  
 S. 4-5' stem slender, 1/2-3/4" diam, bran. F. buds o.  
 S. 4-8' above mid. Panicle usually at sum. F. cor. w. p. at throat in  
 T. 10-12' slender trunk, F. pet. y.  
 T. bran. near top F. pet. y.  
 S. 2-5' slender F. sta. w.  
 S. 3-6'  
 S. 6-10' (from base) simple, F. pet. r. to y. sta. r.  
 T. 30-40' trunk 1 1/2' diam. stem. long.  
 F. buds in a crown, stem. long.  
 F. still tree.  
 H. 10-15' wiff. F. pet. + sta. pale p.  
 F. ant. pur.  
 T. droop.  
 on bottom of slowly  
 running stream  
 S. with straggling F. col. light g.  
 S. branches  
 S. 2-4' bran. elong.  
 on moist bank  
 coarse, fleshy. F. outer per. seg. w.  
 H. 6-12' F. inner w. 2/3 prox,  
 V. herb. F. cor. p. prox, w. dist.  
 V. vine.  
 H. vine F. pet. shy blue  
 H. prostrate F. br. green, rays deep y.  
 T 15-25 ft. F. stamens w  
 H. F. cor. light pink,  
 lower lip purple-dotted  
 H. vine F. cor. + crown  
 pure white  
 S 3-8 ft. F. pet. green  
 F. stand. light pink  
 T 10-15 ft.  
 Par. shrub  
 S 7-8 ft. F. Pet. light y  
 V. herb. F. cor. w. to light p.  
 S. 6-9'  
 S. 3-8' bran. elong.  
 V. herb.

Dec. 1 Clearing Polaria P. W.  
 edge of woods "(K.3. from P.W.)  
 marshy land  
 marsh  
 edge of woods  
 clearing  
 edge of woods  
 clearing  
 marshy land  
 edge of woods  
 woods  
 marshy land  
 clearing  
 marshy land  
 Dec. 2 thicket Puerto Wilches  
 waste land  
 edge of woods  
 marsh  
 edge of woods  
 on #14939  
 marsh  
 Dec. 4 thicket between Navio & El Tambor 150-1200  
 along trail

- 14946 (rub.)
- 14947 Cordia ferruginea
- 14948 Luehea
- 14949 Tournefortia obscura
- 14950 Psychotria
- 14951 Solanobus
- 14952 Lasiacis
- 14953 Eupatorium odoratum
- 14954 Pitcairnia
- 14955 Martynia
- 14956 Stigmaphyllon
- 14957 Bignonia
- 14958 Passiflora maliformis
- 14959 (rub.)
- 14960 Eupatorium
- 14961 Psychotria
- 14962 Piper
- 14963 Passiflora hispida
- 14964 Dioscorea
- 14965 Ipomoea
- 14966 Ipomoea polyantha
- 14967 Eupatorium
- 14968 Marcywicziana
- 14969 Passiflora seemanii
- 14970 Passiflora coriacea
- 14971 Bauhinia
- 14972 Asanjos
- 14973 Mikania
- 14974 Lindsaya
- 14975 Passiflora pala
- 14976 (melast.)
- 14977 Mikania
- 14978 Paulinia
- 14979 Sanchezia
- 14980 Eclides

S. 4-7' F. cor. w.  
 T. F. pet. yellowish w.  
 S. 3-4' F. branches of inflo. p. cal. light c. cor. r. pink  
 V. herb. F. pet. grades of  
 V. herb. F. corolla purplish.  
 S. with herb. F. bracts g. tipped.  
 S. bran. F. cor. bluish w.  
 H. acaulescent F. outer per. sig. -  
 H. cor. r.  
 V. herb. F. pet. y.  
 V. woody F. cor. w.  
 V. herb. F.  
 T. F. bracts w.  
 S. 4-6' F. bracts tipped with dark  
 T. infl. not opened. 9.  
 S. few-bran.  
 V. herb. F. per. greenish  
 V. herb. F. cor. w.  
 V. herb. F. cor. y.  
 H. 2-3' bracts g. tipped  
 S. 10-15' cor. + sta. bl. purp.  
 V. herb. F. cor. y. bracts longit. r.  
 V. herb. F. sep. g. ant g. y.  
 S. low F. pet. y.  
 V. herb. F. g. y.  
 S. ~~5-8'~~  
 F. ~~...~~  
 V. herb. F.  
 S. 2-3' F. brds gr. w.  
 V. herb. F.  
 T. 10-15' F. pet. p. prox. paler dist  
 S. 5-8' F. elsewhere.  
 V. herb. F. cor. pale y.  
 V. milky sap.

Sec. 4. thickets along trail bet. Mar. + El. Tau.

y. dist, becoming r. throughout

emaciated, gr. y.

9.

Dec. 5 on rocky banks. thickets between Las Palmas + Rio Tebriza

Dec. 6 Finha

Dec. 9 Parh

Dec. 11 between Pied. + La Cruz - roadside thicket

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- 14981 Euphobia
- 14982 Calliandra
- 14983 Clematis
- 14984 Eugenia attenuata
- 14985 (rub.)
- 14986 Agave
- 14987 Wedelia trinervis
- 14988 Phoradendron
- 14989 Palicourea
- 14990 Suranta
- 14991 Securidaca
- 14992 Chusquea
- 14993 Lycorceris
- 14994 Alamanda
- 14995 Epidendrum
- 14996 lichen
- 14997 Hypocnemis
- 14998 Chelonanthus
- 14999 Solralia
- 15000 Cordia divaricata
- 15001 Befaria
- 15002 Bromelia
- 15003 Centropogon
- 15004 Tycopodium reflexum
- 15005 Cordia caracasana
- 15006 Vibenium
- 15007 Hyptis
- 15008 Mitonia rugosissima
- 15009 Crotalaria
- 15010 Cecropia
- 15011 Anemia luscata
- 15012 moss.
- 15013 Tradescantia
- 15014 Widelia trilobata
- 15015 Passiflora trisenlea

V. somewhat woody F. pet. w.  
 S. 10-20' F. sta. with pink to red  
 V. woody F. style gr. w.  
 T. 15-20' F. pet. w. ant. g.  
 S. 6-8' F. cor. pale y.  
 infl. to 20 li. leaves rosette,  
 leaves to 5" br 3" l. basal  
 S. 4-5' bran. dwar. F. rays y.  
 E.H. or S. on 14989  
 T. 10-12' F. buds w.  
 S. with scan. F. cor. pur. w. pt  
 S. bran. 2-6' F. cen. Fr. o.  
 V. woody. Fr. reddish p.  
 V. woody.  
 S. 6-8' bran. F. rays, cor. style. o.  
 S. spread.  
 T. 15-20' F. cor. y.  
 H. F. 5 per. sec. r.o. lip. y. prop.  
 with 4 dark spots, dist  
 H. 1-3' F. y. cream w.  
 H. F. w. except lip streaked at  
 center with o. and y.  
 S. 2-3' with muddy granular  
 short bran. forming rounded  
 cov. S. 2-3' F. cor. light p. to w.  
 T. 10-12' F. cor. light p. to w.  
 H. leaves to 2 l. spike to 3'  
 S. 6-10' F. cor. r.  
 F. branched within 6" of base.  
 S. bran. 3/4" diam. F. cor. w.  
 T. 12-20' F. cor. w.  
 H. coarse, 2-4' F. cor. w.  
 H. woody at base F. cor. w.  
 H. 1-3' base F. pet. w.  
 T. 30-40' F. ant. prop.  
 T. ant-inhab. F. sta. w.  
 T. 25-30'  
 F.  
 on rocks  
 H. succ. F. w.  
 H. succ. F. rays y.  
 V. herb. Fr. g.

Dec. 11. thickets roadside, bet. Pied & Jalisco. 1000-1500 u  
 Mesa de los Santos, u Q-5  
 northern slopes u  
 light y. g. on deeper in. u  
 exposed banks u P.M. 6  
 thickets 2  
 3  
 light o.r. exposed banks. u  
 on rocky bank u  
 exposed banks 1  
 Fu  
 coarse F. cor. w. u  
 u  
 u P.N. 1.  
 thickets u  
 among grass exposed banks 2  
 thickets u  
 exposed banks. u  
 thickets open places 4  
 open places u  
 rocky banks. u  
 thickets u

15016	Bledium	F		
15017	Centropogon	S. low	F cor r.	
15018	Miconia parvula	S. 2-3'	F. pet. magenta	
15019	Centropogon	H. herb.	F. cor. r.	
15020	Eugenia jandao	V. 20-35'	F. sta. w.	
15021	Rubus	V. woody	F. pet. w. Fr. black	
15022	Rapanea	T. 15-30'		
15023	Brouetia variagata	H. leaves mott. g. w. F.	F. per. w.	
15024	Habenaria	H.		
15025	Paspalum	H. 3-5'		
15026	Piper	S. 4-5'		
15027	Adiantum fragile	F. slender		
15028	Miconia nitida	S. 4-6'		
15029	Passiflora suberosa var.	V. herb. F. sep. g. cor. fl. w.		
15030	Olex bogotense	S. 5-10'	F. cor. w.	
15031	Syngranthus	H.	F. heads w.	
15032	Cuphea	H.	F. pet. deep. purp. b.	
15033	Guagallis	H.	F. cor. w.	
15034	Manniera	H.	F. cor. light b.	
15035	Luidesaya	F.		
15036	Polygala tenella	H.	F. pet. p. b.	
15037	Lichen	on rocks		
15038	Utricularia	H.	F. cor. y.	
15039	Royopteris	F.		
15040	grass	H.		
15041	Pityrogramme	F.		
15042	algae	floating		
15043	Bouteloua	H.		
15044	Crotalaria	H.	F. Y. faintly streaked with r. pur. c. center	
15045	Eleocharis	H.		
15046	Tibouchana "mayo"	S. low S. to 5'	F. pet. mag. deep.	
15047	Peperomea	H.		
15048	Centropogon	S. low	F. cor. r.	
15049	Thibodia	S. or low T.	F. cor. r. prox. grey.	in dist
15050	Phyllodendron	H. terr.	F. spathe w. becaup.	spadix w. woods

Dec. 11	rocky banks	Aldea de los Santos	u	
	thicket	trailing slopes	u	
	roadside		u	
	thicket		u	
	roadside		u	P. No. 2.
			2	
			u	
	thicket		u	
	rocky banks		u	
	thicket		u	
			2	
			u	
	marshy soil		u	
			u	
			u	
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	rocky banks		u	
	marshy soil		u	
	rocky banks		u	
	marshy soil		u	
	rocky banks		u	
	marshy soil		u	
	small pool		u	
	marshy soil		u	
			u	
			u	
	center	inside	u	
			u	
	thicket		u	
	on rock		u	
	thicket		u	
	woods		u	
	spadix w.	woods	2	

- 15051 Scleria
- 15052 ~~Ischaemum~~ Ischaemum
- 15053 Stereorrhynchus
- 15054 Sabicea
- 15055 Miconia rhodifolia
- 15056 Sipanea
- 15057 Polypodium
- 15058 moss
- 15059 moss
- 15060 (rub.)
- 15061 Piper
- 15062 Miconia
- 15063 Tibouchena
- 15064 Psidium arauca
- 15065 moss
- 15066 hepatic
- 15067 Tillandsia
- 15068 Psychotria
- 15069 Psychotria
- 15070 (rub.)
- 15071 Solanum
- 15072 Pterodendron
- 15073 Miconia
- 15074 Caopia
- 15075 Jussiaea
- 15076 Solanum
- 15077 Monnina
- 15078 lichen
- 15079 lichen
- 15080 Hura
- 15081 Miconia
- 15082 Miconia ciliata
- 15083 Kyllinga caespitosa
- 15084 Nephrolepis
- 15085 Ageratum

H. F. cor. r. paler within  
 H. ter. F. rachis, per. tube, + 5 per. l. r.  
 H. repunt Fr. b.  
 S. 6-8' F. pet. w. F.  
 S. 5-8' F. cor. gr. y. Fr. dull.  
 F. thin. repunt  
 on rocks  
 on soil  
 T. 10-15'  
 S. 6-10'  
 S. or lant. 10-15' F. pet. w.  
 S. 10-12' F. pet. magenta  
 T. 10-15' F. pet. w.  
 on fallen log.  
 on tree trunk  
 E. H.  
 T. 15-20'  
 T. 15-20'  
 F. sepals r. cor. p. S. low.  
 V. woody. F. ant. b.  
 E. H.  
 T. 15-30' F. pet cream w.  
 T. 20-30' F. pet. light y.  
 H. woody. F. pet. y.  
 H. 1-3' F. cor. w. ant. y. tinged  
 H. 2-4' F. cor. w. ant. y. tinged  
 H. coarse lower 2-7' F. pet. deep  
 H. part woody  
 on twigs  
 on twigs  
 T. 25-40'  
 S. 15-20' Fr. dull r. when  
 S. 10-15' F. pet. w. sta + ant. y.  
 S. 10-15' F. pet. light p. dark p.  
 H. sta. + ant. dark p.  
 F. heads w.  
 F.  
 F. cor. w. pappus (?)  
 gent. l.

Dec. 11. M. de los S. w. slope.  
 woods  
 be, deep r.

roadside M. de los S.  
 thicket  
 woods

Dec 12  
 mesa de los Santos  
 in open

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- 15086 Clidemia
- 15087 Marubium
- 15088 Cyathea
- 15089 Cassia
- 15090 Castilleja
- 15091 Polygala *Cyperus cayennensis*
- 15092 moss
- 15093 hepatic
- 15094 *Tycopodium cernuum*
- 15095 Achyrocline
- 15096 Tagetes pusilla
- 15097 Verbena
- 15098 lichen
- 15099 Clusia
- 15100 moss
- 15101 Meriania
- 15102 Myrsurus
- 15103 lichen
- 15104 *Hypericum thesiodes*
- 15105 Weinmannia
- 15106 Panicum
- 15107 *Tybonchea albocentra*
- 15108 Thibodia
- 15109 *Licanopteris pectinata*
- 15110 *Licanopteris*
- 15111 Richardia
- 15112 *Paspalum unispikuum*
- 15113 Mhuosa
- 15114 Solanum
- 15115 Solanum
- 15116 ~~Atran~~ Randia
- 15117 Polygamm
- 15118 Mikania cordifolia
- 15119 Juniperus
- 15120 Baccharis

"Cipoc"

- H. 2-4' Fr. pur.
- H. cor. lav.
- T. F. caudex 4-12'
- [weak semi-pro. S. style 2 1/2', fr. 5 1/2'
- [to erect 5, flat-topped crown 4' h.
- H. 1 1/2' F. bracte. at base 9. at middle, tipped with r.
- H.
- on soil
- on soil
- F. coarse
- H. 2-3' branch base F. heads gr. y.
- H. F. umbol. grass gr. rays light y.
- H. F. rays y. styles crown
- upright on bare rocks
- T. 20-35' - wide spread. crown trunk to branches 5'
- on soil
- H. F. pet. 5. light p. b.
- H. F. ant. y.
- H.
- on soil
- H. F. pet. y.
- T. 6-15' trunk to 2" F. sta. w.
- H. 4-7' F. pet. deep b. w. ant base.
- S. 10-15' F. lily w. with b. hairs. ant b. v. dust. 1/3
- S. F. style pale r. from pump. dust.
- F.
- F. semi-succ. Fr. pur. w.
- H. semi-pro.
- H. woody 2-3' stem simple
- H. 4-6' F. cor. w.
- S. 4-6' F. ant. y. pet. light b.
- S. to 10' wide-spread bran. F. ant. w.
- T. 10-15' slender. Fr. b.
- H. F. w.
- H. V. woody F. cor. ~~at apex~~
- T. 50-70' trunk 2' diam
- S. 5-6' F. heads w.

### Dec. 12 M. de C. S. Grassland

F. pet. y.

S. semi-pro. to 2 1/2' sub.-erect.

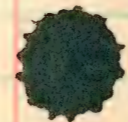
Edge of wds.

Grassland.

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15121 Louania  
 15122 Clusia  
 15123 Fuchsia  
 15124 Thibodia  
 15125 Hydrocotyle  
 15126 Selidnanthus  
 15127 Cassia  
 15128 Vittaria  
 15129 Lindsaya  
 15130 Lindsaya  
 15131 Anona  
 15132 (rub.)  
 15133 Selidnanthus  
 15134 Laphanox  
 15135 fungus  
 15136 hepatic  
 15137 Lophidium  
 15138 Cladonia  
 15139 Xoris  
 15140 Rhynchospora globosa  
 15141 Cyrtia  
 15142 Rhynchospora glauca  
 15143 Paspalum  
 15144 Piper  
 15145 Polypodium tetrasorium.  
 15146 Elaphoglossum  
 15147 Polypodium glaucisylum  
 15148 lichen  
 15149 Oleandra  
 15150 Vittaria  
 15151 Psychotria  
 15152 Trichomanes  
 15153 Trichomanes robustum Fourm aff.  
 15154 Palicourea  
 15155 Sabicea

F. spreading Fr. <sup>pub. prox</sup> dist.  
 T. 10-20' F. cal. deep. 9. prox red  
 S. 5-10' F. pet. fil. style ^  
 S. spread. F. cor. r. prox, P. w. dist.  
 S. 6-12'  
 H. repent, in pool  
 H. coarse, F. cor. p., tube shiny  
 H. 5-20' F. pet. y.  
 S. 2-5, spread, F.  
 S. bran. prox.  
 F. upright in soil  
 F.  
 F. 20-30' F. sep. 9.  
 T. 20-30' F. cal. r. cor. p.  
 S. 8-12' F.  
 H. 10-20' see 126  
 H. sapro. E y. throughout  
 on decayed soil  
 on tree trunk  
 F.  
 lichen on soil  
 H. F. per. y.  
 H.  
 H. suff. F. pet. w.  
 H. prob.  
 H.  
 H. 3'  
 S. 3'  
 F. at base of trees  
 F. on tree trunks  
 F. on tree trunks  
 F.  
 F. dependent from  
 F. twigs & branches  
 S. 8-20' Fr. g. b.  
 F. saules of small streams  
 F. " " "  
 T. 15' F. slender. ill. bran. r.  
 S. spreading lacto bright r.  
 S. 10-15' F. cor. long lit y.

Dec. 12 M. de la S. woods  
 tube & lobes.  
 aut. 9.  
 woods  
 in pool - marsh.  
 out. 9. in, long, striped with w. woods  
 woods  
 - banks of stream  
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 marshy meadow  
  
 woods.  
 det. W. W. W. 1977

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1 15156 *Jussiaea angustifolia*

1 15157 moss

1 15158 hepatic

1 15159 moss

1 15160 moss

1 15161 moss

1 15162 hepatic

1 15163 *Cleistania*

1 15164 *Miconia*

1 15165 *Borreria*

1 15166 ~~*Ilex*~~ *Symplocos* A = fruiting specimen

1 15167 *Andropogon*

1 15168 *Cuphea glabra*

1 15169 *Oleandra*

1 15170 *Crotalaria*

1 15171 *Themistoclesia cordifolia*

1 15172 *Buttiferia*

1 15173 *Juncus*

1 15174 *Mikania*

1 15175 *Fimbristylis*

1 15176 *Ligularia*

1 15177 *Cyperus*

1 15178 *Sporobolus*

1 15179 *Hatthoria* *Jurruera*

1 15180 *Cassia*

1 15181 *Chaptalia*

1 15182 moss

1 15183 lichen

1 15184 lichen

1 15185 hepatic

1 15186 lichen

1 15187 *Ilex*

1 15188 *Mikania*

1 15189 *Eupatorium*

1 15190 *Xyris*

S. few-bran. F. pet. y.

on tree trunk

around decaying twigs

on wet bank

on soil

on decaying wood

on decaying wood

S. 4-6' F. pet. bl. p.

H. suff. or F. pet. from w to pale b.

H. pros. F. cor. w.

S. 5-7' F. pet. w.

H.

H. woody. F. pet. mag.

F.

H. sub-ecan, climbing, among rocks

H. woody, bran. at F. cor. light

T. 15-20' F. pet. yellowish

H.

V. woody F. pappus w.

H.

H.

H.

S. 1-3' F. pet. y.

T. 12-20' F. pet. y.

H. F. pappus w.

on soil

on rocks

on rocks

on moist bank.

on rocks

S. 10-12' F. pet. w.

V. herb. F. cor. bluish w.

H. woody. F. l. purp. style. sty. g.

H. at base F. pappus pale b.

H. F. pet. y.

Dec. 12 M. de los S. woods

in crevices of bare rocks

thicket

wet meadow

crev. bare rocks.

M. de los S. in open

woods.

leaves silky beneath open.

wet marl

thicket

wet marl

M. de los S.

marshy land

15191	<i>Vehrsia</i>	S. 6-8' crown compact, F. ray bright rounded,
15192	<i>Aristida</i>	H.
15193	<i>Panicum</i>	H.
15194	<i>Scleria luteola</i>	H.
15195	<i>Metastelma</i>	V. woody F cor. w.
15196	<i>Dichromena</i>	H. bracts w. at base
15197	<i>Mikonia</i>	T. 12-15' F. buds w.
15198	<i>Eupatorium</i>	H. I woody F. <del>ray purple</del> deep p. b.
15199	<i>Centropogon</i>	H. 2-4' woody, bran. at base, rays semi-pros. F. corr.
15200	<i>Mikania</i>	V. I woody F. pappus w. sta. w.
15201	<i>Eupatorium</i>	S. 4-7'
15202	<i>Allophila</i>	F. caudex to 2' l. semi-pros.
15203	<i>Trichomanes crispum</i> L. aff.	F.
15204	<i>Nephrolepis</i>	F.
15205	moss	on soil
15206	hepatic	among turfs
15207	<i>Bromelia</i>	E. H. in basket of turfs. Spike 2.5 ft. long
15208	<i>Peperomia</i>	H.
15209	moss	among turfs
15210	moss	on wet bank.
15211	<i>Selaginella</i>	on wet bank.
15212	lichen	on rock.
15213	<i>Eupatorium</i>	S. 6-9' bran. spreading F. pappus w.
15214	<i>Epidendrum</i>	H. F. sepals salmon. prox. deep p. <sup>tinged with middle "crest" y.</sup>
15215	<i>Epidendrum</i>	H. F. column g. w. lip y. g.
15216	<i>Tibouchena</i>	H. F. act. + fr. mag. ant. y.
15217	(acanth)	S. 5-8' stem erect, simple, 2" diam.
15218	<i>Panicum</i>	H.
15219	<i>Malaxis</i>	H. 5-7' stem S. simple, leafy at summit F. sep + pet. g. y.
15220	(rub.)	on rocks
15221	lichen	on rocks
15222	lichen	on rocks
15223	<i>Renialmia</i>	H. coarse leaves basal.
15224	<i>Scleria</i>	H.
15225	<i>Eurya</i>	T. 15-20' bran. droop.

Dec. 12 M. de las S.  
rocky crevices  
Mesa

cor. w. light p. b at margin  
style light purp.

rocky ledge. det. Windisch 1977

woods

Mesa  
exposed rocks  
rocky cliffs P.P. & NG

exposed rocks

rocky cliffs  
exposed rocks

Fluclat  
exp. rocks  
Mesa P.P. & O-G

- 15226 Eupatorium
- 15227 Passiflora ligularis
- 15228 Amsinckia
- 15229 Stenophilius
- 15230 Symplocaria purpurea
- 15231 (rub.)
- 15232 Lecloukia
- 15233 Tibouchena
- 15234 Anstida
- 15235 Fimbristylis
- 15236 Paspalum parvifolium
- 15237 Juncus
- 15238 Coryza
- 15239 Juncus
- 15240 Swertia
- 15241 Eragrostus purpurea
- 15242 Pyncapora
- 15243 Boraria
- 15244 (euphorb.)
- 15245 Mikania
- 15246 Palicourea
- 15247 moss.
- 15248 Dryopteris
- 15249 Andropogon
- 15250 Polygala leucophylla
- 15251 Spermocoe
- 15252 moss
- 15253 moss
- 15254 Guaphalium purpureum
- 15255 Souchus
- 15256 Hypoxis
- 15257 Vittaria
- 15258 Sabicea
- 15259 Solanum
- 15260 (rub.)

- H. <sup>corane</sup> 3-5' F. cor. light red, p. style w.
- V. herb. F. bracts light y. q. sep. petals w. corolla rays band
- H. F. cor. golden y.
- H.
- H. bran. pros. F. cor. tube w. lobes p.
- H. low, stems F. cor. w.
- H. <sup>1-2'</sup> woody F. pet. usaq
- H.
- H.
- H.
- H.
- H.
- H.
- H.
- H.
- H.
- H.
- H. <sup>15-25'</sup> slender F. cor. w.
- V. woody F. cor. q. y. also style stig. b. pappus w.
- T. slender 12-30' F. cor. w.
- T. bran. droop. on dead tree
- F.
- H.
- H. F. pet. p. lip y.
- H. pros. F. cor. bl. w.
- on rich soil
- on rich soil
- H.
- H. F. heads q. y.
- H. F. per. y.
- F. on tree trunk
- S. <sup>10-15'</sup> slender F. bracts r.
- H. spread. bran. F. cor. q. aut y.
- T. <sup>2-5'</sup> 95-30'

Dec 13 Mesa  
light y. g. out w. in. thickset  
pet with v. & deep to light p. inner serr with few tips  
dry prairie grassland.

marshy meadow woods

meadow

marshy meadow

wo open meadow

dry meadows

rich wet soil at edge of woods

Dense woods  
Fr. bright  
F. cor. pale y.



- 15261 *Pleurothallis*
- 15262 *Epideum longiflora*
- 15263 *Anthurium lorifolium*
- 15264 *Piper*
- 15265 *Piper*
- 15266 *Miconia albida*
- 15267 *Anthurium*
- 15268 *Stelis*
- 15269 *Stelis*
- 15270 *Malaya*
- 15271 *Vittaria*
- 15272 *Polypodium (laucolatum-type)*
- 15273 *Miconia*
- 15274 *Miconia*
- 15275 *Psychotria*
- 15276 (nb.)
- 15277 *Canva*
- 15278 *Pleurothallis*
- 15279 *Meriania*
- 15280 *Xyris*
- 15281 *Lycopodium*
- 15282 *Polygala meriana*
- 15283 *Crotal*
- 15284 *Melastoma*
- 15285 *Claphoglossum*
- 15286 *Palicourea*
- 15287 *Dichaea Lycopodium*
- 15288 *Phyllocladus*
- 15289
- 15290 *Ocotea*
- 15291 *Brouelia*
- 15292 *Peperomea*
- 15293
- 15294 ~~(clad)~~ *Ficus*
- 15295 *Miconia*

- E.H.
- E.H.
- H. at base of spath. r. pur.
- S. stem simple, straight
- T. stem erect simple 20" h.
- S. leafy upper 1/3
- S. bran. to stem slender
- H. terr. at base of tree
- E.H. F. sep. q. w. with
- E.H.
- E.H. F. sep. deep. rose
- F. column. y.
- F. on trunks and branches
- F. climbing on tree trunk
- T. slender
- T. 12-15'
- T. 15' h. or more with
- T. short bran.
- T. 12-15' Fr. black.
- T. 25-30' Fr. w. droop.
- H. coarse
- H. 5-7' Infl. r.
- E.H.
- H. F. pet. pale lilac
- H. F. ant. cream
- H. F. pery.
- F. in soil long bran. erect,
- H. F. pet. p.
- S. 6-12' few-bran.
- T. 10-20' F. pet. mag. sta. w.
- F. on tree with v.
- T. 15-20' F. bran. w. fl. pur.
- F. cor. light b.
- E.H.
- H. scar. climbing | spath. w.
- H. up the trunk
- T. 25-30'
- T. (fallen) w. fl. deep. p.
- E.H.
- H. (h.?) prob. tall.
- T. 25-35'
- T. 20-30'

Dec 13. woods Mesa

with weak, divar. bran. at summit  
spikes to 15" 2' l.

spathe w.  
deep pur. spots

also bit wet meadow

numerous short bran.  
flat on ground.

woods, edge  
rig at centre dense woods

streaked + blotched with red ant.  
in. pros. dust w.

15261  
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- 15296 *Quercus* "rosinogal" T tall, fallen
- 15297 *Polypodium* F climbing on tree trunks
- 15298 *Begonia* "guaco" H. 1-1 1/2' F. stems deep r. buds r. becoming heads ashy grey
- 15299 *Paepalanthus* H. succ. F. per. deep. b.
- 15300 *Camelina* H. F. cor. w.
- 15301 *Hyptis angustifolia* H. F. pet w, ligaceous
- 15302 ~~H.~~ *Trientalis* H. wood F. pet. pale lilac.
- 15303 *Meriania* H. belat. on wet log.
- 15304 hepatic among roots of 15270
- 15305 hepatic on decayed log.
- 15306 moss
- 15307 *Ligularia* H. F. cor. deep o.
- 15308 *Browallia* H. caudex erect, 2'h. F. stip. 1/2' fr. 4'
- 15309 *Alsophila* F. in shade rock crevices
- 15310 *Trichomanes crispum* L. F.
- 15311 *Elaphoglossum* E. H. or S.
- 15312 *Phoradendron* H. caulescent F. cor. y.
- 15313 (juncaceae)
- 15314 palm D. trunk 20' smooth P. with wings, leaves 4-5'
- 15315 (rub.) T. 10-15' trunk Fr. dark g.
- 15316 *Peperomia* H. ep.
- 15317 *Masdevalla* E. H. F. sep. light salmon p. lip reddish p.
- 15318 *Erythroxes variegata* H. terr. leaves dark g, part. above with pale g. at center and similar
- 15319 *Liparis* H. terr. Fr. light g.
- 15320 *Passiflora* V. herb.
- 15321 *Lichaea* H. on decaying log
- 15322 *Lichaea* H. on decaying log
- 15323 *Bactris* D. trunk spiny, 2-3" diam. P. 6-12' fr. leaves 6-8'
- 15324 *Peperomia* H. repent on tree trunks
- 15325 palm P. trunk 1-2' fr. 7-10'
- 15326 *Browellia* E. H. bracts reddish.
- 15327 *Trichomanes* F. twining up tree trunks
- 15328 orchid E. H.
- 15329 moss on tree trunk
- 15330 hepatic on fallen log

Dec. 13 dense woods Mesa

pale p. marshy land

dry prairie meadow

Dec. 14 Mesa exposed rocks (det. Winters 1977) Mesa

woods

infl. peduncle 1' 13 pairs of leaflets (this spec.)

column. gr. y.

spots F. sep. light g. dense forest floor

woods

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15331	lichen	on decaying wood
15332	moss	on decaying wood
15333	hepatic	on decaying wood
15334	Trichomanes	F. on decaying wood
15335	(juvener.)	H. climbing on tree trunk
15336	palu	H. leaves long let. beneath P. trunk 8-10' 4-6" diam. Fr. dark g. leaves 3-5'
15337	Jimbaya	F. in crevices of rock
15338	Alsophila	T. F. trunk 6-10' 2-4" diam. leaves 2 1/2 - 3 1/2'
15339	Cladoglossum	F. under projecting rock. Fr. appearing b. in shade
15340	Polypodium	F. in crevices
15341	Polypodium	F. stem appressed to tree trunk upper 1 or 2 fr. fertile
15342	Trichomanes	F. on wet banks.
15343	moss	wet banks.
15344	Polypodium deale	F. wet banks, also rocky crev.
15345	Peperomia	H.
15346	Dichraea	H.
15347	lichen	on rocks
15348	lichen	on rocks
15349	lichen	on rocks
15350	leaf nest	on 15217?
15351	lichen	on rocks
15352	lichen	on rocks
15353	lichen	on rocks
15354	(clus.)	T. 12-20' Fr. depressed globose y.g. with 12 rib. with
15355	Blechnum forficatum	F. on tree trunk
15356	Polypodium	F. fallen. F. cal. y.g. reddish prox.
15357	(rub.)	T. tall
15358	Trichomanes	F. dependent from branches
15359	Splachnum	on moist banks
15360	hepatic	on tree trunk
15361	hepatic	on tree trunk
15362	Verbascum	S. 5-8' F. rays y. sta. + styles y. cor. r. brown
15363	Piper	S. 5-7'
15364	Paspiflora	V. herb. (this spec. juv.)
15365	(rub.) Policanria	S. F. cal. r.p.

Dec. #14 woods

Mesa.

rocky places  
exposed banks  
exposed rocks

woods

exposed rocks

woods

edge of woods

Handwritten notes and numbers in the right margin, including a vertical column of numbers (1-14) and various scribbles.

- 15366 *Verbesina*
- 15367
- 15368 *Mendoncia*
- 15369 hepatic
- 15370 *Epidendrum*
- 15371 *Brunnellia*
- 15372 (rub.)
- 15373 *Solanum*
- 15374 *Vernonia*
- 15375 *Centropogon*
- 15376 *Cordia ferruginea*
- 15377 *Elephantopus*
- 15378 *Oreopanax*
- 15379 *Piper*
- 15380 *Lioscorea*
- 15381 *Lycopodium*
- 15382 *Ichnanthus*
- 15383 (bamboo)
- 15384 *Eupatorium*
- 15385 *Aegrotus*
- 15386 *Hypoxis*
- 15387 *Commelina*
- 15388 *Triumfetta*
- 15389 *Thalesia*
- 15390 *Phyllanthus*
- 15391 moss.
- 15392 *Palicourea*
- 15393 moss
- 15394 (anacard.)
- 15395 *Excoecera*
- 15396 *Rebunium hypocarpium*
- 15397 moss
- 15398 (comp.)
- 15399 *Arenaria lanuginosa*
- 15400 *Meibomia*

S. 7-10' F rays y. styles deep  
 growing out of trunk  
 of large trees  
 V. woody bracts r.p.

on tree trunks  
 E. H. of 15371  
 T. 20-30' crown F pet p.w.  
 S. slender 3-4' topped F cor g. y.

S. 7-10' bran. F cor gr. out  
 S. spreading F y.p. in. aut. y.  
 S. 5-7' F invol. g. cor. light  
 S. slender, elong. bran. F pappus w.

S. 2-4' F cor. p.

S. 4-6' F cor. gr. w.

H. F heads light p.

T. 10-15' erect 3-4' diam.  
 stem simple, leaves & inf. at summit, resembling papaya

S. 8-10' V. woody. Fr. olive g.

F.

H.

V. herb.

S. 6-9' F invol. light g.  
 F. cor. & styles light p.

H. lax F cor. light p. most.

H. repent F with deeper p. on

H. woody at base F cor. w.

H. 5-7' Fr. n. F pet. o. y.

H. slender F pet. w.

on soil

T. 10-12' bran. Fr. dark g.  
 slender, droop. on decaying wood

T. 15-20' F pet. p.

V. herb. F cor. gr. y.

V. herb. Fr. o.

on moist soil

H. 4-10' F bracts pur. r. pap.  
 cor. g. bas g.

H. slender, with F pet. w.

H. semi-pro. stems F pet. deep. b.

H. sub-scand. F.

Dec. 14 edge of woods Mesa  
 woods

pur. at base  
 y. at base northern slopes of Mesa open

P.P. 3

styles red p.

woods. n. slopes Mesa

lobes within n. slopes - Mesa  
 moist soil, edge of woods  
 n. slopes. Mesa  
 woods - n slopes

F. cor. cream

n. slopes

in dripping water, n slopes

styles grass g.

u	20001
u	20002
u	20003
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15401	Croton		S. 3-8'	F. pet. w.
15402	Eugenia	"aroyana"	T. 12-15'	F. bracts p.
15403	Cassia		S. 8-10'	F. pet. y.
15404	Hyptis		H. 2-3'	F. cor. mag. b.
15405	Diga		T. 25-30'	
15406	orchid		H. terr. leaves pur. beneath	Fr. q.
15407	Polypodium lauce (type)		F. rhizome repent	
15408	Latura		S. 8-10'	F. cor. w. fl. droop.
15409	Vernonia		S. 4-7'	F. cor. & pappus w.
15410	Verbena		T. crown round	F. pappus b.
15411	Miconia		S. 3-5'	F. pet. sta. styles w.
15412	Solanum aurea		T. or S. 8-12'	F. cor. whit. g.
15413	Lantana		S. 3-5'	F. ant. y.
15414	Eupatorium		S. 4-6'	F. cor. w.
15415	Cassia		H. woody at base 2-3'	F. invol. g. with r. viol.
15416	(comp.)		T. 8-12'	F. hairs at apex.
15417	Eupatorium		S. 3-8'	F. pet. y.
15418	Matricaria		H. coarse	F. Y.
15419	Cassia		S. ± 10'	F. invol. light g.
15420	Croton	"masquero"	S. 3-4'	F. cor. p. styles w.
15421	Piper		S. 7-10'	F. rays w. stig. g.
15422	Hyptis		S. 6-8'	F. cor. pinkish
15423	Baccharis truenvia		S. 12-20' leaf	F. pet. y.
15424	Equisetum giganteum "caula de caballo"		H. 2-3 1/2'	F. pet. w.
15425	Mimosa		S. 5-7'	F. invol. g.
15426	Indigophera		T. blades recurved from base to apex	F. cor. cream
15427	Miconia	"clausa"	V. woody	F. cor. gr. w.
15428	Phaseolus	"tote"	V. woody	F. to 8"
15429	Eupatorium		T. 12-20'	F. pet. p. prox. r. dist.
15430	Clusia		V. herb.	F. sta. w. prox. b. p. dist.
15431	Bradberia		S. 6-8'	F. pet. p.
15432	(rub.)		S. or small T.	F. pet. w.
15433	Zizyphus		V. turning	F. stan. wings pur. keel g.
15434	Evolvulus		H. stiff	F. invol. light g.
15435	Escobedia	"asofriu"		F. cor. & pap. y. g.

Dec. 17. slopes, n - Mesa

woods  
dense forest floor - Mesa

Dec. 15 in garden - Mesa  
n. slopes - Mesa

cor. pale p, r. viol. at apex

wings p. purp, also keel  
center, purp. at center

"roots used for yellow  
coloring matter"

u	15401
u	15402
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15436	<i>Trixis</i> (common at this alt.)	S 2-5'	F involg. rays gold. y cor. o.y. pet.p.
15437	<i>Cliricidia sepium</i>	T with erect leafy branches. 6-12'	F pet. w.
15438	<i>Sesuvium</i>	V woody	F cor. w.
15439	<i>Luggena</i>	S 5-7' with droop.	F cor. w.
15440	<i>Iponoea</i>	V herb. flowering bran.	F cor. p, paler prox.
15441	(comp.)	H coarse. 5-8'	F cor. light g. styles purp.
15442	<i>Veronica</i>	H 4-6'	F involg. g. cor. paler pappus w.
15443	<i>Cosmos</i> "napola"	H 3-5'	F rays deep p. cor. gr. with golden lobes
15444	<i>Veronica</i>	S 5-7'	F cor. + pappus w.
15445	<i>Piper</i>	S 4-6'	
15446	<i>Epidendrum</i> "arvil"	E.H. on wall.	F up. deep purp. Flp deep p.
15447	<i>Baccharis</i>	I 35-50' in cemetery	
15448	"plantanilla"		
15449	<i>Medicago Canina</i>	H 20-30'	F sep. light r. pet. deep r.
15450	<i>Solanum</i>	I " " "	F cor. w. faint y.
15451	"almendro"	T 50-60', spread.	
15452	(rub.) "arbo blanco"	T 10-12'	
15453	<i>Passiflora maliformis</i>	V herb. F bracts light g. sep. light g. out. same spotted in. outer fil.	
15454	<i>Passiflora pallida</i>	V herb. F sep. dark g. ditto w. margin b. bracts y. at apex. Oper.	
15455	<i>Strutianthus</i>	H par. dependent from trees	
15456	<i>Smilax</i>	V	
15457	"grayava del rio"	T 20-25'	F pet. w. sta. y.
15458	"grajibito de quinea"	T 10-12' trunk 6" diam. F. sta. y.	
15459	<i>Mimosa</i> (comp.)	T straight 2 way, flat topped or low trees	
15461	<i>Baccharis</i>	S trunk 2" diam. F. cor. w. styles	
15462	<i>Bigonia</i>	S 6-10'	F invol. w.
15463	<i>Eugenia</i>	S 2-5' bran.	F cor. mag. p.
15464	<i>Mimosa</i>	S. secan. 6-10'	F pet. w. sta. y.
15465	<i>Cavendishia</i>	H somewhat woody 3-6'	F sta. p.
15466	<i>Biophytum</i>	S 4-8'	F cor. light p.
15467	<i>Tibouchena</i>	H coarse 2-4' bran.	F pet. p.
15468	(comp)	S spread	F pet. deep mag.
15469	<i>Eclipta</i>	V herb.	F rays w. fillets gold. y.
15470	<i>Malvastrum</i>	S 3-5'	F cor. y. pet. light p.
15449	<i>Euphorbia</i>	H pro.	F pet. w.

Dec. 15 u. slopes - Mesa

sheds southward from Piedecuesta 980 u

styles deep purp. 2 u

spines p. green tipped in. column g. y. at apex Piedecuesta u P-5

16 Bucaramanga

Dec. 16 up deep r. o. r. spotted in. garden - Buc. u

Dec. 17 in yard Buc. u

Dec. 18 Bucaramanga u P.Q. N.S.

densely deep-r. spotted in. pet w. out. less densely r. t. w. striped prox. b. t. w. dist. gym. + styles y. g. purp. dotted. w. in. pet. w. p. at margin to as long as sepals. Fil. g. prox. styles purp. u P.Q. 2. u Q3 u Q4

Dec. 19 1200 u

Dec. 20 1200-2000 u

between Pied. + Vegas Open hillside.

Dec. 16 crevices of tiles in patio Buc u









- 15576 Passifloraxista
- 15577 Rubus
- 15578 Bauera
- 15579 Centropogon
- 15580 Calceolaria
- 15581 Centropogon
- 15582 Calceolaria angustifolia
- 15583 Myosotis
- 15584 Alousoa
- 15585 Castilleja
- 15586 Berberis
- 15587 Bauera
- 15588 Agrostis
- 15589 Bromus
- 15590 Hydrocotyle
- 15591 Agrostis minor
- 15592 Geranium
- 15593 Bidens
- 15594 Anaca
- 15595 Cardamine
- 15596 Montia
- 15597 Siegesbeckia
- 15598 Oxalis
- 15599 Ranunculus
- 15600 Urtica
- 15601 Castilleja
- 15602 Melastoma crassiflora
- 15603 Lycopodium
- 15604 Scleria
- 15605 Bartsia
- 15606 (orchid)
- 15607 Polypodium
- 15608 Peperomia
- 15609 Cerastium
- 15610 Fuchsia

V. herb. F. tube g. out. w. in  
 V. woody F. P. corona w.  
 V. herb. F. pet. p.  
 V. herb. F. outer seg. p. pur.  
 V. woody F. inner y. dist. g.  
 H. 2-4' F. cor. y.  
 S. elong. F. cor. o. r.  
 S. brachi. F. cor. y.  
 S. 2-5' F.  
 H. F. cor. bright b.  
 H. F. y. at celit.  
 H. F. cor. o. r. sta. br. y.  
 H. 6-15" woody below F. bracts r.  
 F. cor. o.  
 F. pet. y.  
 V. herb. F. outer seg. r.  
 F. inner & br. y.  
 H.  
 H.  
 H. repent  
 H.  
 H. ~~brach.~~ bran. F. repeat.  
 H. F. cor. y.  
 H. coarse F. sup. r. pur.  
 to 5' F. cor. ant. y.  
 H. weak F. pet. w.  
 H. weak.  
 H. succ. F. cor. y.  
 H. succ. F. cor. y.  
 H. matted F. sep. y.  
 H. stem erect  
 H. F. bracts r.  
 10-12' F. cor. yellowish.  
 F. pet. deep. r.  
 H. mat. w. soil F. cor. w.  
 H. stem F. cor. deep pur. p.  
 succ. F. w. at base  
 H. bran at base F. cor. w. p. dist.  
 H. stem erect  
 E. H.  
 F.  
 E. H. succ.  
 H.  
 B. F. tube p. r. out.  
 F. w. in

Dec. 20 woods far above Vegas  
 not at upper margin.  
 prok. pur. - dotted  
 exposed hillside  
 w.  
 e. h.  
 not spotted ant. pur. w.  
 paramillo far Vegas

3000-3300	1	85001
	2	85002
	4	85003
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3300-3700	4	85011
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	4	85100

pt. light r.  
 sta. w.

15611	<i>Oplisoglossum</i>	F.
15612	<i>Bomarea</i>	V. herb.
15613	<i>Guaphalium</i>	H
15614	<i>Cerastium willdenowii</i>	H
15615	<i>Guaphalium specatum</i>	H
15616	<i>Hypericum "romero"</i>	S. to 3 1/2'
15617	<i>Hypericum</i>	H
15618	<del>Capparis</del> <i>Ayorella</i>	H
15619	<i>Bowlesia</i>	H
15620	<i>Alchemilla trifida</i>	H
15621	<i>Alchemilla lincata</i>	H
15622	<i>Alchemilla pinnata</i>	H
15623	<i>Acaena elongata</i>	H
15624	<i>Acaena cylindristachya</i>	H
15625	<i>Guaphalium</i>	H
15626	<i>Paspalum</i>	H
15627	<i>Arctostaphylos</i>	H
15628	<i>Artemisia</i>	H
15629	<i>Centiana</i>	H
15630	<i>Beranium</i>	H
15631	<i>Chaetanthera</i>	H
15632	<i>Werneria</i>	H
15633	<i>Agrostis</i>	H
15634	<i>Agrostis pumila</i>	H
15635	<i>Eragrostis</i>	H
15636	<i>Lycopodium</i>	H
15637	<i>Lycopodium</i>	H
15638	<i>Werneria</i>	H
15639	<i>Juncoides</i>	H
15640	<i>Asplenium</i>	F.
15641	<i>Elaphoglossum</i>	F.
15642	<i>Jamesonia</i>	F.
15643	<i>Paspalum</i>	F.
15644	lichen	soil
15645	lichen	soil

F. pet. sep. bil. y.  
 Fr. grass - g.  
 with purp. + g.  
 F. 2-3 cm. wide - str.  
 F. sta. about 25  
 F. cor. gr.  
 F. pet. light y.  
 F. bedds gr. y.  
 F. cor. w.  
 F. pet. w.  
 F. cor. light p. str.  
 F. pet. deep p. or pale  
 F. rap. gr. y. light  
 F. cor. deep. gr. y.  
 F. rap + cor. w.  
 F. rap w.

20  
~~21~~  
 Dec. 20 paramillo, Pan. de las Vegas  
 ant. g.  
 paramo of Vegas

3700-  
3800

very numerous. pet. y.  
 pet. y.

with dark. p.



Dec. 20 Jaramo of Vegas

3700-  
3800

15646	moss	on soil	
15647	(rub.)	T. slender	F. cor. gr. y.
15648	Sisymbrium	H.	F. pet. br. y.
15649	Cyperaceae	H.	
15650	Hypnicium	S. to 2'	F. pet. y. sta. 30 or more
15651	Alcicium	H.	F. pappus w.
15652	Chelidonium	F.	
15653	Lycopodium compactum	F.	
15654	Claphoglossum	F.	
15655	Erigeron	H.	F. pappus grey.
15656	Stipa	H.	
15657	Diapetalium	H.	heads gr. y.
15658	Jarvesonia	F.	
15659	Diapetalium	H.	heads silvery w.
15660	Scilla cuspidatum	H.	F. pet. w.
15661	Seranium	H.	pet. p.
15662	Alchemilla orbiculata	H.	
15663	Ranunculus	H.	sep. y. w.
15664	Lycopodium	F.	
15665	Valeriana	H.	cor. w.
15666	(modest.)	H.	pet. br. y.
15667	Plantago	H.	bracts purp. ant.
15668	Sisymbrium	H.	per. y.
15669	moss	on soil	
15670	(umbel.)	H.	
15671	(umbel.)	H.	pet. w.
15672	Veronica	H.	cor. deep. b.
15673	(umbel.)	H.	pet. w.
15674	Matricaria	H.	pet. purp.
15675	Carex	H.	
15676	Wormeria	H.	rays w.
15677	Erigeron	H.	infl. w.
15678	Castilleja	H.	bracts r.
15679	Halleria	H.	cor. y.
15680	Halleria	H.	cor. gr. w.

15646	
15647	
15648	1
15649	1
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15651	2
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15654	1
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15666	1
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15671	1
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15674	1
15675	1
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15680	

- 15681 *Saultheria*
- 15682 *Bidens*
- 15683 *Hieracium*
- 15684 *Espeletia* "frailigone"
- 15685 *Ranunculus*
- 15686 *Andropogon*
- 15687 *Eupatorium*
- 15688 *Verbena*
- 15689 *Eupatorium*
- 15690 *Miconia*
- 15691 *Cestrum*
- 15692 *Solanum*
- 15693 *Werneria*
- 15694 *Hypericum*
- 15695 *Jamesonia*
- 15696 *Cyrtopteris*
- 15697 *Odontosoria*
- 15698 *Miconia*
- 15699 *Polystichum*
- 15700 *Struthiopteris*
- 15701 *Polypodium*
- 15702 *Eupatorium*
- 15703 *Graphalium*
- 15704 *Erigeron*
- 15705 *Scraucium*
- 15706 *Senecio*
- 15707 *Elaphoglossum*
- 15708 orchid
- 15709 *Elaphoglossum*
- 15710 *Elaphoglossum*
- 15711 *Senecio*
- 15712 orchid
- 15713 *Polystichum*
- 15714 *Peperomia*
- 15715 *Epilobium*

F. low, cor. w.  
 D. pro. cal. deep n  
 H. rays br. y. cor. o.  
 H. cor. br. y.  
 H. coarse, leaves & spikes  
 H. basal, sep. y.  
 H. 3-4' invol. q. cor. lobes  
 H. invol. q. br. y. become  
 T. 10-15' rays & cor. br. y.  
~~F. 5-10' cor. & style~~  
 T. 5-10' crown nearly spher.  
 T. trunk 4-5' h. 8" diam.  
 S. 5-7' cor. deep pu. out.  
 H. lobes q. at mar.  
 H. cor. li. bl. ant. y.  
 H. rays w.  
 S. semi-pro. pet. y. sta. 50-  
 F.  
 F.  
 F.  
 S. compact pet. pu. ant. br.  
 F. 2-5'  
 F. caudex upright 4-8" diam.  
 F. 1/2-2' high, base of stipes  
 F. to 2' cor. & sta. w.  
 H. heads gr. y.  
 H.  
 H. slender pet. light p.  
 H. erect cor. br. y.  
 H. slender  
 F.  
 H. ep. sep. quib. not. with  
 F. col. y. q. prox. pu. dist.  
 F.  
 T. 10-12' cor. y.  
 H. ep.  
 F.  
 F. H. pet. de. p.  
 H.

Dec. 20  
 Dec. 21  
 paramo of Vegas

2700	3	18001
3800		18002
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	1	18006
3600-		18007
3700		18008
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paramillo  
~~pa~~

15716 Hieracium  
 15717 Rubus  
 15718 lichen  
 15719 lichen  
 15720 moss  
 15721 Orthrosanthus  
 15722 Tribodia  
 15723 lichen  
 15724 moss  
 15725 hepatic  
 15726 Polypodium  
 15727 Polypodium  
 15728 Lipsoloma  
 15729 Peperomia  
 15730 Eupatorium  
 15731 (melast.)  
 15732 Osteolemus  
 15733 Begonia  
 15734 Fuchsia  
 15735 Buddleia  
 15736 Geranium  
 15737 Weinmannia  
 15738 Laurus  
 15739 Stellaria  
 15740 Polypodium triangulare  
 15741 moss  
 15742 moss  
 15743 hepatic  
 15744 Eupatorium  
 15745 Eupatorium  
 15746 Polypodium  
 15747 Polypodium  
 15748 Polystichum  
 15749 lichen  
 15750 moss

H. heads y.  
 V. woody pet rich p.  
 soil  
 soil  
 soil  
 H. per. br. br.  
 T. 30-40' cor. r, yish. dust  
 on twigs  
 on decaying wood  
 on decaying wood  
 on trees on 722  
 on trees  
 H.  
 H. on trees on 722  
 S. 7-10' style yish g.  
 T. slender. pet. yish. w.  
 ? Fr. y. g.  
 H. succ. pet. w. stay.  
 (V. or S.?) sep. pet, fil. r. ant. cream  
 cor. b.  
 H. pet. deep. p.  
 T. 7-10' pet. w.  
 H.  
 H.  
 F.  
 S. pet. mag. ant. y.  
 on decaying wood  
 " "  
 H. woody cor. grayish w.  
 S. 5-10' lobes styles pale  
 cor. g. prox fine w. dist. styles + ant. w.

Rec. ~~31~~ paramillo  
 bet. above Vegas

3600  
 3200  
 3400  
 3400  
 3600

2

34

34

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15751 moss  
 15752 moss  
 15753 moss  
 15754 moss  
 15755 Elaphoglossum  
 15756 Probatulus  
 15757 Paspalum  
 15758 Odontosoria  
 15759 Arenaria minuta  
 15760 moss  
 15761 moss  
 15762 Solanum  
 15763 Eupatorium  
 15764 Matricaria  
 15765 Senecio  
 15766 Oxalis  
 15767 Steltaria  
 15768 Hieracium  
 15769 Paspalum  
 15770 Agrostus  
 15771 Elaphoglossum  
 15772 Stipa  
 15773 grass  
 15774 Asplenium  
 15775 Elaphoglossum  
 15776 Eupatorium  
 15777 (Melastomaceae)  
 15778 Asplenium  
 15779 Viola  
 15780 Mitholacna  
 15781 (comp.)  
 15782 Solanaceae  
 15783 Phytolacca  
 15784 Boheria  
 15785 Lycopodium

soil  
 soil  
 soil  
 soil  
 Fan soil y. shrubby pet. de.p.  
 H.  
 F.  
 H. repent. pet. w.  
 soil  
 soil  
 S. 6-10' F. cor. cream  
 S. 4-5' cor. w. ant. y. very  
 H. sty. light p. violet  
 H. ray br. y.  
 H. infl. green y.  
 H. succ. pet. y.  
 H. repent. pet. w.  
 H. infl. y.  
 H.  
 H.  
 F. on rocky bank  
 H.  
 H.  
 F. on rocks  
 F. on rocks  
 S. 5-8' cor. sty. cream  
 S. 3-4' pet. rich. abso  
 F. on rocky banks  
 H. rep. pet. light b, striped  
 E. 8-12' lobes y. sty. green  
 S. 3-4' cor. cream  
 S. 1-3' cor. dull p. b.  
 H. 1-3' sep. + fil. de.p. ant.  
 V. herb. lower seq. lg. lat.  
 F.

Dec. 21 Jaramillo

3400  
~~3300~~  
3600

between above Vegas  
 ant. bry. \* exposed banks above Vegas  
 with darker b.  
 thicket  
 winter y. unpotted

~~3300~~  
3300-  
3400

Fu  
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15786	<i>Elaphoglossum</i>	F. on bank.
15787	<i>Stipa</i>	H.
15788	<i>Pernettya</i>	S. 3-10'
15789		H.
15790	<i>Mimulus</i>	H. cor. y.
15791	<i>Geranium</i>	H. pet deep p.
15792	<i>Lycopodium</i>	F.
15793	<i>Baheria</i> "chupamplana"	V. herb. per. sep. all deep r.
15794	<i>Thibodia</i>	S. 10-15' cor. r. dependent.
15795		S. bran. depend.
15796	<i>Gaultheria</i>	S. depend. pet w. cor. q.
15797	<i>Elaphoglossum</i>	S. 10-12' cor. lip Fr. r. b.
15798	<i>Elaphoglossum</i>	F.
15799	<i>Lycopodium</i>	F.
15800	<i>Vaccinium</i>	S. 6-8' cor. light p.
15801	<i>Melastoma</i>	S. 3' stem erect with short lat. bran. pet. deep. mag
15802	lichen	peaty soil
15803	<i>Thibodia</i>	S.
15804	<i>Alsophila</i>	F. caudex 6" above gr. fr., incl. stipe, 3'
15805	<i>Sisyrinchium</i>	H.
15806	<i>Thibodia</i>	F. cor. deep. r. q. at apex
15807	<i>Elaphoglossum</i>	F.
15808	<i>Elaphoglossum</i>	F.
15809	<i>Polypodium</i>	F.
15810	<i>Pittcaulium</i>	E. S. bran. sep. scarlet droop. pet. sep. y. fr. spat. at base
15811	(Orchid)	H. terr.
15812	<i>Odontocoma</i>	F.
15813	<i>Polypodium</i>	F.
15814	<i>Lycopodium</i>	F.
15815	<i>Gaultheria</i>	S. 5-8' comp.
15816	moss	on soil
15817	hepatic	on soil
15818	<i>Trichomanes</i>	on wet log
15819	<i>Reperomea</i>	H. succ. on wet fallen T.
15820	<i>Thibodia</i>	S. or low T. cor. de. p. prof.

Dec. 21 exposed hillsides above veg.

3300  
3400

woods  
woods

e. h.

edge of woods

e. h.

thicket

e. h.

woods

much palm diet

3200-  
3200.

15821	orchid	E.H. fr. g.
15822	Bromelia	E.H. lact. r.
15823	Senecio	S. 3-4' heads y.
15824	Hypericum	S. 2-4' much-bran. pet. y.
15825	Gaultheria viscosa	S. 4-7' sep. r. cor. p. w.
15826	lichen	on twigs
15827	Guaphalium	H. I woody heads pearl w.
15828	grass	H.
15829	Liabum	S. 8-10' ray ls. y. cor. deep
15830	grass	H. 6-15'
15831	Osteonales	T.
15832	Ruta	H. coarse, pet. w.
15833	Matricaria	H. odor. ray w. cor. y.
15834	comp.	S. 2-3' rays w. ant. fru.
15835	grass	H.
15836	Adlyrocline	H. to 3'
15837	Gaultheria	S. 2-4' cor. li. p.
15838	Hieracium	heads y.
15839	Sestrum	cor. tube r.
15840	Weinmannia	lobes gr. y.
15841	Eupatorium	T. 15-20' sta. w.
15842	<del>Nidalgium</del>	S. 6-10' cor. w. sty. b. w.
15843	Tillandsia	T. 20-30'
15844	Elaphoglossum grandifolium	E. H. infl. o. r.
15845	Elaphoglossum	F. on soil
15846	Polypodium angustifolium	F.
15847	Polypodium	F.
15848	Polypodium	F. on tree
15849	Pluch	F.
15850	Solanum	T.
15851	Hypericum	S. 2-3' cor. cream. ant. y.
15852	Absorplula	F. trunk 20' fr. (incl. st.) 6'
15853	Weinmannia tomentosa	T. 20-30'
15854	Polypodium australe	F.
15855	Gaultheria alba	S. 7-9' br. t. cor. w.

Dec. 21 woods above Vegas

3200  
3300

e. h.  
edge of woods.

e. h.

woods

e. h.

lobes gr. y.

woods

e. h.

3120-  
3200

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15856	<i>Hypericum</i>	S 1-3'	pet. y. sta. ± 20
15857	<i>Erythrodos</i>	H. terr	luds g. w.
15858	<i>Polypodium</i>	F. on tree	
15859	<i>Stelis</i>	H. ep.	
15860	<i>Eupatorium</i>	H. ± 2 1/2'	cor. + sty. w.
15861	<i>Cyrtia</i>	T. F.	
15862	<i>Moringa lucida</i>	S. 6-8' 5-7'	
15863	<i>Moringa</i>	S. 5-7' 6-8'	
15864	<i>Viburnum "garochia"</i>	T. 12-16'	cor. w.
15865	(rub.)	S. erect. 8-12'	
15866	(laur.)	T.	
15867	(laur.)	T.	
15868	<i>Vaccinium</i>	S.	cor. w.
15869	<i>Mikania</i>	V. woody	cor. sty. w.
15870	<i>Epidendrum fimbriatum</i>	H. terr.	sep. light p. to w.
15871	<i>Zibodia</i>	S.	cor. dark to pale p.
15872	<i>Phoradendron</i>	E. H. on <i>Permettya</i>	
15873	<i>Tillandsia</i>	E. H.	
15874	<i>Claphoglossum</i>	F. on soil	
15875	<i>Lepanthes</i>	E. H.	
15876	<i>Asplenium salicifolium</i>	F.	
15877	orchid	E. H.	
15878	<i>Stelis</i>	E. H.	sep. pale g. rich pur. or
15879	<i>Melastoma "marcato"</i>	T. trunk 7-8"	pet. rich pur. or pale
15880	<i>Zibodia</i>	S. bran. or woody v.	cor. br. or
15881	lichen	on tree trunks	
15882	<i>Saccoloma</i>	F. fr. (incl. st.) 3-5'	
15883	<i>Claphoglossum</i>	F.	
15884	moss	on soil	
15885	<i>Polypodium</i>	F.	
15886	<i>Allophila</i>	T. F.	
15887	lichen	on tree	
15888	moss	soil	
15889	orchid	H. ep.	seq. r.
15890	<i>Palicourea</i>	S. slender	cor. pale. at base

Dec. 21 e. h. woods

3020-3200

4

?

dry banks.

e. h. woods

2700-3000

sta. p. poor w. dist. sty. p.

R. dist. lobes g.

15891		S. 6-8'	cor. g. w.
15892	mass	on soil	
15893	mass	on soil	
15894		T. 15-20'	pet. w.
15895	Quercus "roble"	T. 30-60'	
15896	Miconia "tuno"	S. 6-10'	pet. p.
15897	Weinmannia "luseuillo"	T.	
15898	Mudileubekia	V. woody	stems br. r.
15899	Psychotria	S. 6-12'	cor. p.
15900	lichen	on soil	
15901	lichen	on soil	
15902	mass	on soil	
15903	Fycopodium "madrillo"	F.	
15904	Pteranoptera bancroftii	F.	
15905	(gent.)	S. 8-12'	cor. rich p. y. poor in
15906	(moss)	T. 15-25'	cor. w. faintly
15907	Viola "granoso"	H. repent.	pet. viol. pur. strip
15908	hepatic	on decaying wood	
15909	Hymenophyllum	F. on tree	
15910	Polypodium	F.	
15911	Passiflora longipes	V. herb.	
15912	Epidendrum	H. terr.	per. p. col. deep p.
15913	Gaultheria "cauraxero"	S. 8-12'	bracts rich p. pale p.
15914	Marchantia	on soil	
15915	Ficus	T.	
15916	mass	on soil	
15917	mass	on soil	
15918	Tibouchena	S.	
15919	Mitania	T. 15-20'	cor. pale p. to w.
15920	Hypocnemum	S. 2-3' ascending	pet. y. & sta. w.
15921	mass	on soil	pet. y.
15922	mass	on soil	
15923	Ochroptera	F.	
15924	mass	on soil	
15925	mass	on soil	

Dec. 21 woods

2700-3000

purple striped  
(used for fevers)

thickets  
e.l.  
thickets

15925

15926	<i>Passiflora lactosa</i>	V. herb. descr. elev.
15927	<i>Rauvolfia</i>	H. sep. y.
15928	<i>Odontosoria</i>	F.
15929	<i>Odontosoria</i>	F.
15930	( <i>Bromeliad</i> )	E.H. upl. l.r. r.
15931	<i>Suriana</i>	T. 20-25'
15932	bamboo	V. herb.
15933	<i>Eupatorium</i>	S. 8-10' cor. sty. rich pu.
15934	<i>Melastoma</i>	S. pet. rich p.
15935	<i>Passiflora lyacinthiflora</i>	V. herb.
15936	<i>Splachnum</i>	on soil
15937	<i>Clusia</i>	T. 35-40' wide spread
15938	<i>Ficus</i>	T.
15939		T.
15940	<i>Lycopodium</i>	F.
15941	<i>Melastoma</i>	T. pet. l.r. r.
15942	<i>Anturium</i>	on trees spathe p. out.
15943	<i>Piper</i>	T. 20' tr. lran. near sun
15944	<i>Poly podium</i>	F. rep. at base of trees
15945		T.
15946	Orchid	H. terr. pet. w.
15947	( <i>eric.</i> )	S. 4-6' cor. w.
15948	<i>Asplenium salicifolium</i>	F. on trees
15949	<i>Pilea multiflora</i>	H. succ. rep.
15950	<i>Asplenium macrocarum</i>	H. at base
15951	<i>Passiflora biflora</i>	F.
15952		V. herb.
15953	<i>Vernonia impressa</i>	V. woody
15954	<i>Anturium</i>	S. 6-12'
15955	<del>Hebe</del> <i>Crythrodos laigifolia</i>	H. terr. spathe g. out. paler in becoming deep p.
15956	<i>Crythrodos caulescens</i>	H. terr.
15957	<i>Poly podium flexinervum</i>	H. terr.
15958	<i>Bromelia viridia</i>	F. leaves basal cor. w.
15959	<i>Claploglossum ligulatum</i>	H. terr.
15960	<i>Miconia</i>	F. 8-12' pet. w.

Dec. 21. thickets above Vegas  
fields  
e. h.

woods

pet. g. y.

H. in

Dec. 23. woods  
w. to

Vegas

2800-3000

2000-2900

15926	
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15929	1
15930	1
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(juniper)  
Caradavica  
Aulonium microspathum  
Aulonium  
Erythodes attenuata  
Psychotria  
Albophila *Trichomanes microphylla* (L.) J. Sm.  
hepatic  
moss  
lichen  
Asplenium attenuata  
Polypodium luteum  
lichen  
Peperomea variegatum  
Centropogon  
Miconia  
Thibodia  
(Loganiaceae)  
Thibodia  
hepatic  
hepatic  
moss  
Psychotria  
Ilex  
Columnea  
Thibodia  
Vaccinium  
Weinmannia obtusifolia  
Cinchona  
Quercus  
Trichomanes capillaria  
Miconia  
Polypodium angustifolium  
Polypodium macrodonum (cuticle leaves)

H. low scan cor. o.  
H. low scan cor. q. w.  
H. scan.  
H. terr. spathe grass g.  
H. terr. spathe waxy ju.  
H. terr. per. w. column y.  
S. fr. d. q.  
T. F. caudex 2' stem 2' fr. 4'  
on soil  
on soil  
on trees + soil  
F.  
F. on trees ~~from~~  
F. fr. drooping  
on trees  
H. on trees  
V. woody cor. pale p.  
V. herb. cor. + ped. q. w.  
V. woody  
S. slen.  
S. 8-15' bracts p. cal. y. p.  
on soil  
on trees, drooping  
on decaying wood  
S. 6-12' cor. q. fr. w.  
S. 10-12' cor. q.  
H. cor. br. y.  
S. 10-20' cal. p. style p.  
S. 8-15' cor. light p. paler dist.  
S. 10-12' perian. cal. + style.  
T. 30-40' cor. b.  
T. 12-20'  
F. on trees  
S. 8-12' pet. + fil. light pale p.  
cut li. q.  
F.  
F.

Rec. 22 woods

Vegas

2600-2900

1  
3  
1  
#u  
#u  
3  
2

prox, w. dist. br. at mar. cor. r. p.

edge of woods

fil w. ant. br, paler dist.

woods  
e. of woods  
woods.

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15996 Polypodium pumila  
 15997 (vaccin.)  
 15998 Quercus  
 15999 Lycopodium  
 16000 Meibomia  
 16001 palm  
 16002 moss  
 16003 Boraria  
 16004 moss  
 16005 Cypripedium macrochaetus  
 16006 Glucoides  
 16007 Fragaria  
 16008 moss  
 16009 Eupatorium  
 16010 Liabum  
 16011 Mitharia  
 16012 Cuphea  
 16013 Solanum  
 16014 Tibouchena  
 16015 Veronica  
 16016 Sissyrinchium  
 16017 Thalictrum podocarpum  
 16018 Equisetum quinqueidentum  
 16019 Pilea crevata  
 16020 Pilea rotundifolia  
 16021 Polypodium ciliatum  
 16022 Trichomanes elongatum  
 16023 Hydrocotyle Humboldtianum  
 16024 Sellaquilla  
 16025 Pilea atropurpurea  
 16026 moss  
 16027 Tropaeolum  
 16028 Peperomia diforma  
 16029 moss  
 16030 moss

F. 8-12'  
 S. 8-12'  
 T.  
 F.  
 H. stem. b. pu. wings  
 P. stipe 3' + keel lar.  
 fr. 3'  
 on decaying wood  
 H. cor. w.  
 on decaying wood  
 H.  
 H. part. w.  
 on decaying wood  
 S. 8-15' cor. pap. li. straw col.  
 styles b. stig. w.  
 S. 10-12' rays l. y. cor. y.  
 V. woody. pappus li. b.  
 H. repeat. pet. p. to w.  
 H. trunk 2" diam cor. w.  
 T. 10-12' trunk 2" diam aut. y.  
 H. pet. pale p. to w.  
 sta. deep p. aut. y.  
 H. cor. tub. y. q. lobes p.  
 cor. pu. striped  
 H. per y. ± 1 cm diam.  
 H. coarse sep. q. aut. y.  
 F.  
 H. succ. repeat  
 H. at base to 3' long  
 H. succ.  
 H. on wet rocks  
 F. dependent from branches  
 F. dependent from branches  
 H. repeat in  
 H. wet soil  
 F. in wet soil  
 H. succ. repeat whole plant  
 deep pu.  
 on trunks  
 V. herb. cal. spur red, lobes q.  
 cor. deep pu. striped with q.  
 H. succ. closely  
 H. esp. to trunks  
 on trunks  
 " "

Dec. 22 woods Vegas 2600- Fu  
 edge of woods 2900  
 field  
 edge of woods  
 woods  
 field  
 woods  
 field  
 woods  
 edge of woods  
 field  
 edge of woods  
 field  
 thicket  
 marsh  
 dense woods along stream  
 sta. bl. per. aut. steel bl.

- 16031 *Elaphoglossum parvulum* F. on trees
- 16032 *Salvia* H. to 2 1/2' at base cor. rch. p. w. at base
- 16033 *Cyathea* F. trunk 3' h. fr. 7'
- 16034 *Elaphoglossum philoglyphum* F. terr.
- 16035 *Peperomea* H. on tree
- 16036 *Asplenium rotundifolium* H. on tree spathe q.
- 16037 *Begonia* S. 2-4' long. wide-spread. pet w. sta. y.
- 16038 *Riccia* on leaf of 16036
- 16039 *Siparuna* T. 15-20'
- 16040 *Coccoloba* H. 2-3' cor. w. fr. br. b.
- 16041 *Polypodium* F. on tree
- 16042 *hepatic* on leaf of 16150
- 16043 *Pilea viridis* H. on wet forest floor
- 16044 *Palu* P. trunk 3' h.
- 16045 *Palicourea* S. stem 1/2 - 3/4 diam
- 16046 *Peperomea* H. succ. stem repeat
- 16047 *Asplenium hastatum* H. at base, to 1/4' h. spathe q. becoming b.
- 16048 *Lagerstroemia* H. sp.
- 16049 *Asplenium* T.
- 16050 *hepatic* F.
- 16051 *Piper* on leaves
- 16052 *Canva* S. 3-4'
- 16053 *Polypodium suspensum* H. terr. br. deep r. cor. light y.
- 16054 *Pilea* F. on trees
- 16055 *Peperomea* H. terr. repeat at base, to 2'
- 16056 *Psychotria* H. succ.
- 16057 *Cibotium* F. 5-10' cor. (mottled) after w. lobes q.
- 16058 *(rub.)* F. trunk ± 1' fr. 5' V. woody
- 16059 *Jouana* F.
- 16060 *Pilea Erythodes prescottia* H. terr. 3 sep. grasses y. 2 sep w.
- 16061 *Agrostis* N.
- 16062 *Carex* N.
- 16063 *Cyperus* H.
- 16064 *Nepalanthus* H. heads w.
- 16065 *Juffa* V. herb. cor. y.

Dec. 22 dense woods along stream U.

2600  
2900

tract w. striped with p. stem per. q.

lip. w. g. dotted. rocky bank  
marshy meadow

meadow

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- 16066 Eupatorium
- 16067 Mentha arvensis
- 16068 Pityrogramma tartarea
- 16069 Polypodium
- 16070 Lichnum
- 16071 Equisetum
- 16072 Viola major
- 16073 Hydrocotyle
- 16074 Gunnera
- 16075 Oxalis
- 16076 Polypodium
- 16077 Columnea
- 16078 Rondeletia
- 16079 Hydrangea
- 16080 Polyrhiza
- 16081 Sarauja
- 16082 Pilea
- 16083 Randia
- 16084 Miconia
- 16085 Sarauja
- 16086 Lactylis
- 16087 ~~Alchornea~~ Hibiscus
- 16088 Viola prolifera
- 16089 Hydrangea
- 16090 Thibodia
- 16091 Jacobinia
- 16092 Salvia
- 16093 Pilea daucifera
- 16094 ~~Salvia~~ Relbunium
- 16095 Tropaeolum
- 16096 Asplenium
- 16097 Pilea abrupta
- 16098 Asplenium
- 16099 Clematis
- 16100 Thibodia

S. with bran. bracts w. prox. q. dist. dependent striped with 3 q. nerves  
 H. with woody cor. l. w. p. spot. dist. l. w. p. spot.  
 F. on moist banks  
 F. on trees  
 H.  
 F. moist pet. deep p. prox. pale  
 H. soil violet dist. lipp. pale  
 H. moist violet dist. lipp. pale  
 H. soil coarse, leaves spikes 2-4' h.  
 H. to 3-4' across, erect, leaves p. ting. beneath.  
 H. succ. pet. y.  
 F.  
 H. proc. woody, fr. w. prox, deep p. dist  
 V. herb.  
 S. with droop. bran, bracts q. w, 8-12' or 56-12' folioids r. p.  
 H. coarse, bran. droop. rays y. 4-6' pet. q. out, q. w. in.  
 T. succ. plant purplish throughout  
 H. on rocks, moist.  
 S. 8-12' cor. w.  
 S. 8-12' pet. w.  
 S. bran. proc. pet w, ant y.  
 H.  
 S. bran. droop. pet. r.  
 S. 7-10' stems repent  
 H. moist soil pet. deep r.  
 V. herb. sterile pet. light p. and p. lobed  
 S. 8-15' bracts rich p. and p. lobed  
 V. woody fil. p. prox, paler dist. ant. b. paler dist. style q. w. prox, pale p. dist.  
 V. slender pet. blunt o. fil. per much paler prox, ant. deep brown. woods  
 H. 3-4' cor. q. prox, rich p. dist.  
 H. succ, stem repent at base  
 V. herb.  
 V. herb. ~~sterile~~ spurp. cal. lobes q. pet. deep pu.  
 F. pedicel q. prox, or coming deep p. dist.  
 H. 3' h. quae.  
 F. on trees, br. droop.  
 V. woody F. w.  
 S. 8-10' fr. dark q.

23

Dec. 22 edge of woods Vegas 2600-2900  
 → cor. light p, lobes + styles rich p.

field

vio, striped with p. marshy borders of stream

edge of woods along stream

pet. deep p. faintly striped with w.  
 (ster)

marshy borders of stream  
 edge of woods along stream  
 marshy borders of stream  
 e. w.

woods

e. w. along stream

2600-2900	30001
	30002
	30003
	30004
	30005
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	30008
	30009
	30010
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	30049
	30050

16101 Cassia  
 16102 Jussia  
 16103 Rubus  
 16104 Polygala  
 16105 Lobelia  
 16106 Cissampelos  
 16107 Phlox rugosus  
 16108 Cordia  
 16109 Weinmannia  
 16110 Suranta  
 16111 Passiflora  
 16112 Rosa  
 16113 Eupatorium  
 16114 Euphorbia  
 16115 Praxotlia  
 16116 Anoda  
 16117 Ageratum  
 16118 Saraya  
 16119 Psychotria  
 16120 Portulaca  
 16121  
 16122 moss  
 16123 Equisetum giganteum  
 16124 (comp)  
 16125 hepatic  
 16126 Pilea  
 16127 Mikania  
 16128 Miconia  
 16129 lichen  
 16130 Symplocos pterocarpa  
 16131 moss  
 16132 moss  
 16133 Boehmeria  
 16134 Weinmannia  
 16135 Epideblora

T 12-15' pet. y.  
 H.  $\pm$  2' wet soil pet. y.  
 V. woody pet. pale p.  
 H. pet deep p. paler at apex  
 H. cor. b.  
 V. herb. F. g.  
 S 4-8' F. clusters reddish  
 S 8-12'  
 T 10-12' sta. w.  
 S 7-10' with cor. p. midrib b.  
 V. elong. bran fr. o.  
 V. herb. sep. coriaceous, br. ant, y. g. in.  
 S low on pet. p.  
 S moist bank. cor. g. lobes rich p.  
 S 7-10' sty. rich p.  
 H. pro.  
 H. ten. sep. g. w.  
 H. pet. w. prox, b. p. dist  
 H. cor. w. sty. p.  
 T 15-18' pet. w. ~~sta.~~ sta. y.  
 S 8-12'  
 H. ten. tube y. sep. g. p.  
 S 8-12' buds br. g.  
 on tree  
 F  $\pm$  5' h.  
 H. coarse cor. w. prox, p. striped dist  
 H. 6-7'  
 on tree stem  
 T succ. rep. at base - to 3' h.  
 V. woody cor. & sty. g. w.  
 V. below fl. buds g.  
 T 12-15'  
 at tree  
 F. stipe 4' br. 6'  
 F. calyx upright  
 at tree  
 at tree  
 T 15-20' per. seq. light g. autn.  
 T 12-20' leaves br. g.  
 H. ep.  
 F. light g. throughout

Rec. <sup>23</sup> 22 clearing  
 r. b. of stream Vegas  
 field  
 e. w. along stream  
 clearing.  
 pet. w. corona (clausure)  
 operculum g.  
 field  
 e. w.  
 exposed hillside  
 woods  
 woods  
 woods

2600-  
2900

24

P.T.

2

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16136 *Alsophilala*  
 16137 *Piper*  
 16138 (*acanth.*)  
 16139 *Psychotria*  
 16140 *Plantago*  
 16141 *Juniperus*  
 16142 *Loumaria cordata*  
 16143 *Hymenophyllum*  
 16144 *Hymenophyllum*  
 16145 *Hymenophyllum*  
 16146 *Hymenophyllum*  
 16147 *Hymenophyllum*  
 16148 *Hymenophyllum*  
 16149 *Epipactis*  
 16150 *Laelia*  
 16151 *Stelis*  
 16152 *Tepanthes*  
 16153 *Tepanthes*  
 16154 *Tepanthes*  
 16155 *Tepanthes*  
 16156 ~~*Atalapha*~~ *Mayillana*  
 16157 *Mayillana*  
 16158 *Mayillana*  
 16159 *Vernonia*  
 16160 *Lioscorea*  
 16161 *Eclites*  
 16162 *Peperomea*  
 16163 *Ipanea*  
 16164 *Eupatorium*  
 16165 *Vernonia*  
 16166 *Mikania*  
 16167 *Verbisina*  
 16168 *Centropogon*  
 16169 *Polygala*  
 16170 *Selidomanthus*

T. F. <sup>slip</sup> 3' usually much  
*blackerthan in spec.* | fr. 6-9'  
 S. 2-4'  
 H. <sup>coarse,</sup> 5-8'  
 S. 7-6'  
~~H.~~ H. 40-50'  
 H. pro. pet. w.  
 F.  
 F. on trees  
 F. on trees  
 F. on trees  
 F. on trees  
 F. on trees  
 F. on trees  
 H. terr.  
 H. ep. & terr.  
 H. ep.  
 H. ep.  
 H. ep.  
 H. ep.  
 H. ep.  
 H. ep.  
 H. ep.  
 H. ep.  
 V. woody. pappus w.  
 V. herb.  
 V. herb. | cor. lobes pur. spotted toward apex.  
 H. fleshy  
 V. herb. | cor. cream w.  
 H. coarse, cor. + sty. pure w.  
 H. 3-5'  
 V. woody pappus w.  
 V. woody cor. cream w.  
 S. 4-7' rays y.  
 V. woody cor. p.  
 H. 3-4' pet. w. prox. pale p. dist.  
 S. 8-12' cor. p., w. striped in.

Rec. 22 wood Vegas 2000-2200  
 clearing  
 field woods  
 Dec. 24 open banks bet. Pied. + Jas U. 2000-2200  
 edge of woods  
 woods  
 edge of woods  
 S-3 P  
 4  
 1  
 3  
 7  
 1  
 2  
 1  
 1

16171	Eupatorium	S 5-8'	cor. g. w. prox
16172	Tournefortia	H. 1 1/2-2'	p. at apex, sty. w.
16173	Chaenactis	H. at base	pet. y, br. blackish at base
16174	Cordia corymbosa	T 30-40'	
16175	Passiflora	S 4-6'	
16176	Ficus	V. herb.	sep. grass g. out
16177	Calliandra	V. herb.	g. w. in, pet. w. p. tinged
16178	Solanum grandiflorum "toron"	V. herb.	at margin. corolla (blue)
16179	Passiflora	T 5-15'	pet. g. w. corolla plum w.
16180	Eupatorium	T 10-20'	cal. grass g. cor. g. paler
16181	Metastelma	V. woody	prox. <del>ata</del> rich p.
16182	Vernonia	S 6-10' bran.	cor. w.
16183	Bursera	V. droop.	lappets pale y.
16184	Trixis	V. herb.	cor. tube y, lobes paler y.
16185	Serjania	V. woody	cor. w.
16186	Erythrina	T 10-12'	
16187	Opuntia	H. coarse	ray y, cor. y.
16188	Fatouha	H. or low 5 to 5'	sep. greyish w.
16189	Vernonia	V. herb.	
16190	Machaonia	T 8-15'	bracts g. cal. g. w. spotted with dark br.
16191	Hibiscus	V. herb.	petals p, paler prox.
16192	grass	V. herb.	cor. b, paler prox.
16193	Crotalaria	T 8-12'	pet. deep r, ant. y.
16194	Presine	V. woody	cor. y.
16195	Guaiacum	T 15-18'	
16196	Vernonia	S 6-10'	cor. r. o, paler dist.
16197	Hemistylis	H. bran. prox.	
16198	Paulownia	H. to 5'	sty. w.
16199	Peperomia	T 10-12'	
16200	Pilea	V. herb.	cor. br. r.
16201	Asplenium	V. herb.	pap. w.
16202	Lipayanum	S. with droop. bran.	
16203	Rubia	V. 19-15'	cor. w, fil. w. ant. y.
16204	Bauhinia	H.	
16205	Alcaia	F.	

Dec. 24 edge of woods bet Pied + JasO.

Dec. 27 thicket Piedecuesta Florida

Dec. 28 roadside (used as au. insect poison) northern slopes, Buc. plateau

style w, spotted dist with dark br. fil. pale y.

valley of R. Surata

rocky boulders

thickets

2000-  
2200  
1400-  
1600  
1000  
900  
800-  
1000

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U-4,5

24

16206	<i>Fresima</i>	V. herb.	pet g. w.
16207	<i>Adiantum</i>	F.	
16208	<i>Piper</i>	S. 3-6'	
16209	<i>Pachira</i>	T. 10-12' foliage	bracts brown
16210	<i>Nyctocarpa</i>	T. mostly at summit	stg. w.
16211	grass	T. 8-12'	
16212	<i>Piper</i>	H. bran droop, to 5'	
16213	<i>Guazuma</i>	S. 12-15'	
16214	<i>Eupatorium</i> <i>Nyctis</i>	T. 20-30'	
16215	<i>Collandra</i>	S. <del>3-6'</del>	cor. b, paler prox. ant. y.
16216	<i>Piper</i>	T. <del>20-40'</del>	ant w.
16217	<i>Hyopteris</i>	S. 25-35' or small T.	
16218	<i>Meriania</i>	F. 12-20'	
16219	<i>Cordia</i>	V. woody	cor. w.
16220	<i>Polygala</i>	S. 4-7'	cor. w.
16221	<i>Epidendrum</i>	H. woody at base	pet. w. ting. with p.
16222	<i>Epidendrum</i>	H. bran semi-proc	
16223	<i>Passiflora</i> (16175?)	H.	
16224	<i>Peperomia</i>	V. herb.	
16225	<i>Crotola</i>	H.	
16226	<i>Wattleria</i>	S. 4-6'	pet w. sta. w.
16227	<i>Serjania</i>	S. 4-8'	cal. paleq. pet w. ant. y. w.
16228	<i>Eupatorium odoratum</i>	V. herb.	cor. w.
16229	<i>Plumbago</i>	S. 6-8'	cor. pale b, sty. b.
16230	<i>Ficus</i>	S. 3-6'	cor. w. ant. b, fil. w. stiq. + sty. w.
16231	cactus	T. 40-60'	
16232	<i>Serjania</i>	H. to 8" li.	
16233	Comp.	V. herb.	
16234	<i>Antennaria</i>	S. 3-4'	cor. w, stiq. pale y.
16235	grass	H. terr.	spathe reddish
16236	<i>Uincarosa</i>	H. to 7'	pap. (?) cream w. stiq. r. brown.
16237	<i>Cissampelos</i>	H. 1-3'	pet. pale lav.
16238	<i>Pteris</i>	V. herb.	
16239	<i>Pterocarpus</i> (Malpighi)	F. 12-15'	
16240	<i>Piper</i>	S. 3-6'	

Dec. 28 thickets valley of Surata R.  
rocky banks  
thickets

400-600

exposed banks

thickets  
open banks

thickets

~~clearing~~  
open banks  
thickets

16241	<i>Terna microanthum</i>	T. 10-15'		
16242	<i>Bauhinia</i>	S. or low T. 8-12'	pet. w.	
16243	<del>Piper</del> <i>Acalypha</i>	S. 10-15'		
16244	<i>Eupatorium</i>	S. 3-5'	cor. bl. sty. bl.	
16245	<i>Piper</i>	S. 12-15'		
16246	<i>Amaripidacea</i>	V. herb.	cor. deep lav.	
16247	<i>P. sitium</i>	T. 10-12'	pet. w. fil. w.	
16248	<i>Miconia</i>	S. or small T. 4-8'	pet. w. fil. w.	
16249	<i>Solanum</i>	S. 3-6'	pet. bl. ant. y.	
16250	<i>Hiraea</i>	S. <sup>5-8'</sup> <del>5-9'</del>	pet. y	
16251	<i>Wissadula</i>	S. 5-9'	pet. y	
16252	<i>Rhus</i>	T. 12-15'	pet. w.	
16253	<i>Dioclea</i>	V. herb.	stand. pump., deep pump, center; wing pump; keel wh.	
16254	<i>Ploradendron</i>	Ep. s. <sup>on melia</sup> <i>agederach</i>		
16255	<i>Mimosa "galinero"</i>	T. <sup>8-40 ft.</sup> <del>ranach</del>	st. wh.	
16256	<i>Guazuma</i>	T. 20-25'	pet. wh.	
16257	"uo"	S. <sup>4-6'</sup> <del>4-6'</del>	pet. gr. wh.	
16258	<i>Pilea microphylla</i>	H. succ.		
16259	<i>Peperomea</i>	H. succ.		
16260	(100)	V. woody	pet. w.	
16261	<i>Serrania</i>	V. woody	pet. w.	
16262	<i>Hiraea</i>	S. 4-5'	pet. y.	
16263	<i>Eugenia</i>	S. 6-9'	fr. br. n. pet. w.	
16264	<i>Cassia</i>	H. shrubby 2-3'		
16265	<i>Lavalla</i>	H. very vigorous		
16266	<i>Jussiaea</i>	S. 3-5'		
16267	(comp.)	H. shrubby 2-3'	pet. y.	
16268	<i>Calliandra</i>	V. woody	rays o. y. cor. lobes br.	
16269	<i>Helicteris</i>	T. 25-30'		
16270	<i>Acalypha</i>	T. 15-20'		
16271	(comp.)	T. low with droop. bran	pet. w.	
16272	<i>Warty Warszywickya</i>	S. 10-15'	ray. y.	
16273	<i>Cordia</i>	S. 5-7'		
16274	<i>Crotar</i>	S. 8-12' bracts br. n.	cor. gr. y, r. lobes	
16275	<i>Vernonia</i>	S. low 2 1/2-4'	cor. w.	
		H. 2' woody at base		
		S. 3-4' stem simple	cor. incl. p. pappus w.	

Sec. 26. Clearing valley of Sur. r. 400-600  
thickets

n. s. B. p.

open hillside  
29 exposed hillside Bucaramanga 750

Upper Valley of Rio Lebrija, n.w. of Buc. 400-600  
bump at apex

open rocky bank  
open ~~bank~~ hillside

2

800-1000

#1

photo  
phot. f.

3

16276	Cassia	T 10-15'	pet. y.
16277	Ambropogon	H.	slender
16278	Aeschynomene	H. somewhat woody	cor. y.
16279	grass	H. 3' h. up to 6 ft.	
16280	Eupatorium	Coars. herb	
16281	Trochoma	H 1.5 + 2.5 ft.	cor. W lobes & style rich pink
16282	Peperomia	H	cor. yellowish or red- stained within
16283	Justicia	Succ. herb	spike white
16284	Polypodium	S 8-10 ft.	calyx y, cor r.
16285	Epiphyllum	H	
16286	Machaderium	Succ. vine Epiphytic	
16287	Jacquemontia	T 15-25'	
16288	Dryopteris	H vine	Cor. bright blue
16289	Palisourea	Ep. shrub	Spikes bright green
16290	Mikania	T 20-30'	Cor. wh.
16291	Heliconia	H vine	Cor. & style wh.
16292	Peperomia	Succ. vine	
16293	"	Succ. herb on dry tree bases	
16294	Utricularia	S 10-15'	" " " "
16295	Crotalaria	H	
16296	Acaciella bilipii B & R	Stem single Erect 5 ± 7 ft.	Pet. y. Stamens wh.
16297	Piper	S 6-8'	
16298	Anthurium	H terr	
16299	(rub.)	S 8-12'	cor. w.
16300	Spongia	V. herb.	cor. w.
16301	Phyllanthus	V. herb.	pet. y.
16302	Tournefortia	V. herb.	
16303	Cardiospermum	V. herb.	br. li. q.
16304	Cida angustifolia	H.	pet. w.
16305	Malachra	H.	pet. y.
16306	Rapanea "cucharo"	H small 8-15' trunk 2-3" diam.	
16307	Shillactia	H 2-2 1/2'	woody
16308	Eclipta	V. herb.	cor. y.
16309	Dianthus	V. herb.	cor. scar.
16310	Eupatorium	S 7-10'	cor. & style p. w.

Sec. 29 open hillside valley of Rio  
Rio Lebrija

open rocky bank

thicket  
rocky bank

thicket

river bank

dry hillside

(used for roofs)  
[trunk]

thickets

- 16311 (comp.) H. 3-4' heads y.
- 16312 *Paullinia* V. herb. fr. r.
- 16313 *Scutellaria* H. cor. li. b.
- 16314 *Saracha* S. with sub- cor. y. w.
- 16315 *Echinocereus* S. scan. ~~fr. w.~~ cactus, plants to 10" diam
- 16316 *Ocimum* H.
- 16317 (tilia) S. pet. w. star y.
- 16318 *Machaerium* T. 20-30'
- 16319 *Struthanthus* on 16318
- 16320 *Piper* S. 2-4'
- 16321 *Piper* S. 2-3'
- 16322 *Eupatorium* S. 4-7' cor. light violet
- 16323 *Abrutilar* H. ± woody sty. pet. w.
- 16324 *Celitis* "japiwo del monte" V. herb. cor. 9. y.
- 16325 *Stigmaphyllon* "agalita de pepina" V. woody
- 16326 *Aristolochia* V. woody fr. 6-angled
- 16327 *Piper* "cordacilla" S. 5-7' pet. w.
- 16328 *Aleuaria* "picurita" L. 4-6'
- 16329 *Clematis* "cabello de ahil" V. herb.
- 16330 *Bignonia* V. woody cor. red p.
- 16331 *Paclia* "barigon" T. 25-30' sta. w.
- 16332 *Solanum* T. 6-8' flat. top. cor. p. b.
- 16333 *Psidium* "arayan" S. spread crown. ant. y.
- 16334 *Castilleja* H. T. 10-25' pet. w.
- 16335 *Vismia* "sangrito" H. 12-30'
- 16336 *Cordia ferruginea* "mulato" S. 3-5' cor. w.
- 16337 *Deschymone* H. woody cor. y.
- 16338 *Verbena* H. to 5' cor. w.
- 16339 *Verbena* H. cor. lav.
- 16340 *Passiflora cuneata* V. herb.
- 16341 *Bletia* H. sp. pur.
- 16342 (legum) H. pet. w. at center, P. pu. at mar.
- 16343 *Passiflora coreacea* V. herb.
- 16344 *Passiflora* V. herb.
- 16345 *Deschymone* H. cor. y.

Dec. 29 thickets valley of Upper Rio Tebrija  
rocky hillside

woods  
open hillside  
(fr. used as darts by children)

Dec. 30 open hillside  
(sap. used as coloring matter)

Buc.

1100-1300

V-3

16301  
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16345



- 16346 *Cyolobus*
- 16347 *palm*
- 16348 *Tillandsia usneoides*
- 16349 *Rhipsalis*
- 16350 *Triplaris*
- 16351 *Begonia*
- 16352 *Peperomea*
- 16353 *Peperomea*
- 16354 *Peperomea*
- 16355 *Dicliptera*
- 16356 *Asplenium*
- 16357 *Lycopodium*
- 16358 *Piper*
- 16359 *Boerhaavia*
- 16360 *Adiantum*
- 16361 *Anacardium*
- 16362 *Martynia*
- 16363 *Eupatorium*
- 16364 *Hamelia*
- 16365 (*Commelin*)
- 16366 *Euphorbia*
- 16367 *Cracca*
- 16368 *Asplenium*
- 16369 *Polypodium*
- 16370 *Wiegandia*
- 16371 *Zinnia nitaxia*
- 16372 *Tripteris*
- 16373 *Cyperus*
- 16374 *Paspalum*
- 16375 *Oxalis*
- 16376 *Munna*
- 16377 *Amyris*
- 16378 *Opuntia*
- 16379 *Sesuvium*
- 16380 *Echeveria*

V. herb. cor. y. g.  
 T + 40ft. infl. wh., + 9ft. long  
 H ep. drooping from branches  
 succ. ep. bran. dependent  
 T 12-20' sep. g. ant. g. w.  
 H succ. pet. p. to w.  
 H succ.  
 H succ.  
 H succ.  
 H. cor. y.  
 F.  
 F.  
 S 5-6'  
 H.  
 F.  
 T 15-25'  
 P 10-15' leaves 4-5'  
 S 6-10' cor. w. prox. dist. + sty. p.  
 S 4' stem erect. cor. deep r.  
 H. sub-scan. pet. w.  
 H. 3-4' pet. w.  
 F.  
 F.  
 T 8-12' pet. p. p. p.  
 H. woody at base pet. y.  
 F.  
 H.  
 H.  
 H. pet. y.  
 H. 2-3' sta. br. p.  
 S 5-10'  
 S 6-12' pet. r. p., drying o.  
 H. woody pet. w. sta. w. prox. p. dist.  
 H. succ. sep. g. pet. coria orens, w. densely r. most. out, + appearing r. r. slopes

Dec. 30. open hillsides Buc.  
 31. In patio "  
 Jan. 2. ~~wooded slopes~~ valley of R. Surata  
 rocky slopes } between Buc. + El  
 Jaboncilla

1100  
 1300  
 1000  
 800-  
 1500  
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 P. X-1

dry hillsides  
 rocky hillsides  
 stream bed  
 rocky slopes  
 dry hillsides

- 16381 *Apenia*
- 16382 *Pellaea cordata*
- 16383 (*Myrseniaceae*)
- 16384 *Bignonia*
- 16385 *Marsdenia*
- 16386 *Notholaena bonariensis*
- 16387 *Vernonia*
- 16388 *Piper*
- 16389 *Tournefortia*
- 16390 *Cephalocereus*
- 16391 *Tillandsia recurvata*
- 16392 *Senecio*
- 16393 *Phyllodeudron*
- 16394 *Tillandsia*
- 16395 *Clusia*
- 16396 *Phoradendron*
- 16397 *Polypodium*
- 16398 *Epiphyllum*
- 16399 *Santana*
- 16400 *Cassia pilicaulis*
- 16401 *Pleurothallis*
- 16402 *Anthurium*
- 16403 *Pleurothallis*
- 16404 *Polypodium*
- 16405 *Tillandsia*
- 16406 *Piper*
- 16407 *Epilobium*
- 16408 *orchid*
- 16409 *Eupatorium*
- 16410 *Bromelia*
- 16411 *Ficus*
- 16412 *Passiflora curvata*
- 16413 *Savonia*
- 16414 *Mimosa*
- 16415 *Acalypha*

F.  
 F.  
 T. 12-20' cor. w.  
 V. woody cor. red p. out  
 V. herb. cor. y.  
 F.  
 S. 6-10' cor. + pappus w.  
 S. 6-8'  
 V. woody cor. y. w.  
 Cac. to 20' h.  
 H. ep.  
 T. 20-30'  
 E. H.  
 E. H.  
 T. 30-40' pet. w.  
 E. S. on 16395  
 F. on rocks  
 Ep. succ. per. tube q. seg. w. in. q. out.  
 S. 3-9' sta. o. prox. sty. deep. o.  
 S. 6-9' cor. w.  
 H. ep. sep. w. prox. y. q. long. dist.  
 H. terr.  
 H. terr.  
 F.  
 H. terr.  
 S. 4-5'  
 H. terr. 3 sep. open light gr.  
 H. up to 3 ft. pet. wh. o. 1 pet.  
 H. ter tube o. 2 sep. cr. - y.  
 S. 5-9'  
 S. 2-3' cor. o. styles pure wh.  
 H. panicle 3' high, 1.5 ft. wide,  
 T. 15-20'  
 H. vine See notes  
 S. 1.5 to 3 ft. pet. y.  
 H. 3-5' stem  
 H. erect purple stem. rich pink  
 T. 20-30 ft. Infl. green

Jan. 2 dry hillside, Valley of Surata River 800-1500  
 between Buc. o Jabonillo  
 rocky slopes  
 lobes w. w.

dry hillside  
 rocky slopes  
 dry hillside  
 wooded banks of stream

X-4

Jan. 3 dry hillside valley of R. Sur. 1500-1800  
 between Jabon. & Surata.  
 rocky slopes

1 pet. lip, o. col. red-spotted  
 bracts  
 per. rich pink; per. purple, stamens wh.  
 dry hillside

16416	Jasirum	S 8-12'	corolla pure wh.
16417	Cuscuta	Twining matted vine	" gr.-wh.
16418	Hura	Slowly up to 7'	pet. gr. wh.
16419	Adenaria	S 5-10'	pet. wh.
16420	Clusia	T 25-35'	pet. pure wh. fr. 1.5 in diam
16421	Pilea	H succ.	for
16422	Adiantum	H	
16423	Cheilanthes myriophylla	H	
16424	Passoquiveria	T	Cor. yellowish-wh. <sup>wilted</sup>
16425	Ipomoea	H twining vine	Cor. wh. <sup>deep blue</sup> <sup>with pink</sup> <sup>stam. yellow</sup>
16426	Landenbergia	T 25-30 ft	Cor. br.-red, pur.
16427	Buddleia	T	Cor. light yel.
16428	Salix	T <del>20-40'</del> <sup>20-40'</sup> trunk straight	lvs bright green
16429	Comp.	Succ. herb. vine	Rays red to or.; cor. or
16430	Meriania	S 6-10'	Pet. purple.
16431	Begonia <sup>clavata</sup>	Vine woody	Fruit only
16432	Ipomoea	" herb.	Cor. pink pur, blue dist.
16433	Mimosa	H erect	St. pinkish red
16434	Rubiacae	S 8-10 ft. with subsc. branches	Tr. white
16435	Peperomia	H succ. epiphy.	
16436	Evolvulus	H prostrate	Cor. light blue
16437	Polypnia	H 4-8'	Rays y; stam. purple
16438	Comp	H 2-4'	Cor. wh., pink-purple, <sup>stipled</sup>
16439	Cassia occidentalis	H 1-2.5'	Pet. y.
16440	Ipomoea	V Herb. twining	Cor. pink throughout
16441	Stachys	H 1.5-2.5'	Cor. blue, pale without
16442	Parrya occidentalis	H 2-3'	Pet. gr., stam wh.
16443	Centropogon cornuta	H somewhat scandent	Cor. pale pink, lobes wh.
16444	Meribonia	H lax elongate branches, <sup>erect</sup>	Pet. pink
16445	Alibonia <sup>minutiflora</sup>	H 2-3 ft.	Cor. rich purple.
16446	Canna	H 4-5 ft.	out. per. red, inner red, y. pur.
16447	Rust on 16446		
16448	Exolobus	H vine	Cor. gr.
16449	Momina	S 6-10'	Pet deep blue, lip y-g.
16450	Solanum	Spreading S 4-6'	Cor. y-wh., anthers <sup>dark y</sup>

Jan. 3	valley of R. Sur. dry hillsides	1500- 1700 3	21101 21102 21103 21104 21105 21106 21107 21108 21109 21110 21111 21112 21113 21114 21115 21116 21117 21118 21119 21120 21121 21122 21123 21124 21125 21126 21127 21128 21129 21130 21131 21132 21133 21134 21135 21136 21137 21138 21139 21140 21141 21142 21143 21144 21145 21146 21147 21148 21149 21150
	rocky wooded slopes		21151 21152 21153 21154 21155 21156 21157 21158 21159 21160 21161 21162 21163 21164 21165 21166 21167 21168 21169 21170 21171 21172 21173 21174 21175 21176 21177 21178 21179 21180 21181 21182 21183 21184 21185 21186 21187 21188 21189 21190 21191 21192 21193 21194 21195 21196 21197 21198 21199 21200
	rocky wooded slopes		21201 21202 21203 21204 21205 21206 21207 21208 21209 21210 21211 21212 21213 21214 21215 21216 21217 21218 21219 21220 21221 21222 21223 21224 21225 21226 21227 21228 21229 21230 21231 21232 21233 21234 21235 21236 21237 21238 21239 21240 21241 21242 21243 21244 21245 21246 21247 21248 21249 21250
	dry hillsides, among rocks		21251 21252 21253 21254 21255 21256 21257 21258 21259 21260 21261 21262 21263 21264 21265 21266 21267 21268 21269 21270 21271 21272 21273 21274 21275 21276 21277 21278 21279 21280 21281 21282 21283 21284 21285 21286 21287 21288 21289 21290 21291 21292 21293 21294 21295 21296 21297 21298 21299 21300
	dry hillsides		21301 21302 21303 21304 21305 21306 21307 21308 21309 21310 21311 21312 21313 21314 21315 21316 21317 21318 21319 21320 21321 21322 21323 21324 21325 21326 21327 21328 21329 21330 21331 21332 21333 21334 21335 21336 21337 21338 21339 21340 21341 21342 21343 21344 21345 21346 21347 21348 21349 21350
	along stream		21351 21352 21353 21354 21355 21356 21357 21358 21359 21360 21361 21362 21363 21364 21365 21366 21367 21368 21369 21370 21371 21372 21373 21374 21375 21376 21377 21378 21379 21380 21381 21382 21383 21384 21385 21386 21387 21388 21389 21390 21391 21392 21393 21394 21395 21396 21397 21398 21399 21400
	rocky banks		21401 21402 21403 21404 21405 21406 21407 21408 21409 21410 21411 21412 21413 21414 21415 21416 21417 21418 21419 21420 21421 21422 21423 21424 21425 21426 21427 21428 21429 21430 21431 21432 21433 21434 21435 21436 21437 21438 21439 21440 21441 21442 21443 21444 21445 21446 21447 21448 21449 21450
	dry hillsides		21451 21452 21453 21454 21455 21456 21457 21458 21459 21460 21461 21462 21463 21464 21465 21466 21467 21468 21469 21470 21471 21472 21473 21474 21475 21476 21477 21478 21479 21480 21481 21482 21483 21484 21485 21486 21487 21488 21489 21490 21491 21492 21493 21494 21495 21496 21497 21498 21499 21500
	rocky wooded slope		21501 21502 21503 21504 21505 21506 21507 21508 21509 21510 21511 21512 21513 21514 21515 21516 21517 21518 21519 21520 21521 21522 21523 21524 21525 21526 21527 21528 21529 21530 21531 21532 21533 21534 21535 21536 21537 21538 21539 21540 21541 21542 21543 21544 21545 21546 21547 21548 21549 21550
	rocky wooded slope		21551 21552 21553 21554 21555 21556 21557 21558 21559 21560 21561 21562 21563 21564 21565 21566 21567 21568 21569 21570 21571 21572 21573 21574 21575 21576 21577 21578 21579 21580 21581 21582 21583 21584 21585 21586 21587 21588 21589 21590 21591 21592 21593 21594 21595 21596 21597 21598 21599 21600

16451	Grass		used in making mats lvs only
16452	Passiflora	H vine	See notes
16453	Stigmaphyllon	H slender vine	Pet. y.
16454	Camp	H 2-4 ft.	Raye y.
16455	Cassia	H erect 4-7'	Pet. y.
16456	Inga	T 25-35'	Stamens wh
16457	Mimosa	S erect, 8-10'	" pure wh.
16458	Cassia	T 15-25'	Pet. or y.
16459	Cassia	T 12-20'	" bright y
16460	Alternanthera	H scandent	Heads purple
16461	Echinocystus	H vine	Cor. wh.
16462	Justicia	S 3-6'	Calyx rich pink, cor. <sup>light</sup> red
16463	Mimosa	S 8-12'	
16464	Abutilon	H coarse 4-6'	Pet. y, red-br. at base
16465	Piper	S 3-5'	
16466	Solanum	Woody vine	Cor. pink-purp, anthers wh.
16467	Polygala	H woody at base	Pet. pink, brown streaked
16468	Eupatorium	S 5-7' lvs. shiny	Cor. & styles wh.
16469	Eupatorium	H woody herb	" " " light green
16470	Besleria paniculata	S 5-8 ft.	Heads white.
16471	Orchid	H Epip.	Fls wholly light green.
16472	Justicia	S branches scandent among branches of trees, up to 20' -	pet. y.
16473	Solanum	S 3-8'	Cor. gr.-wh, anthers y
16474	Inga	S low up to 5'	Pet. wh.
16475	Cordia floribunda	S 5-7'	Cor. wh.
16476	Lasiacis	H vine	
16477	Passiflora capsularis	H vine	Cor wh., gr. at center
16478	<del>Passiflora</del> Asclep.	H vine	stand. pi-br. without y-green
16479	Phaseolus	H vine	fil. pink, anthers wh.
16480	Mimosa	S 6-10'	
16481	Peperomia galioides	H epip.	
16482	Peperomia replata	H epip.	
16483	Inga	T 25-35'	Stam. wh.
16484	Pavonia	S 2-4'	Pet. y.
16485	Oenothera	H.	pet. p. anthers y. lvs. pale

Jan. 3	(native of higher mts.) Bet. Jabonillo o Surata	1500- 1800	Ph. X-6
	wooded rocky slopes		
	dry hillside		
	thickets		
	4 thickets along river - Surata'	1740 m.	
	wing pi. keel gr-wh.		
Jan. 8	field	1600- 1800	vic of Surata'

- 16486 *Notholaena*
- 16487 *Hemaria Eupatori*
- 16488 *Prockia?*
- 16489 *Juncea*
- 16490 *Asclepias*
- 16491 *Justicia*
- 16492 *Prockia*
- 16493 *Cestrum*
- 16494 *Eupatorium*
- 16495 *Muhlenia*
- 16496 grass
- 16497 *Piper*
- 16498 *Acalypha*
- 16499 *Polygonum* ? *Polygonum*
- 16500 *Polypodium*
- 16501 moss
- 16502 *Adenaria*
- 16503 *Acalypha*
- 16504 *Typha*
- 16505 *Chenop.*
- 16506 *Buddleia*
- 16507 *Asplenium*
- 16508 *orchid*
- 16509 *Blechnum*
- 16510 *Pteris*
- 16511 *Passiflora ligularis*
- 16512 *Rivina*
- 16513 *Centropogon*
- 16514 hepatic
- 16515 hepatic
- 16516 *Phorodendron*
- 16517 *Piper*
- 16518 *Sida*
- 16519 *Piper*
- 16520 *Pycnanthemum*

F. among rocks  
 V. herb. cor. q. w.  
 S. 10-12'  
 H. coarse with pet. y.  
 H. droop. bran. pet. r.  
 H. coarse with ant. o.  
 H. woody, juv. cor. br. r.  
 V.  
 H. very fleshy  
 T. 10-15' cor. tube & sep. pale y.  
 H. coarse cor. tube q. lobes w.  
 S. 5-8'  
 V. herb.  
 H.  
 S. 6-10'  
 V. woody sta. r.  
 S. 10-15' fr. o.  
 F. on tree trunk  
 on rocks cal. g. spotted with deep brown,  
 S. 10-15' pet. w.  
 S. 8-15'  
 H. 5-10' h.  
 V. herb. cal. pale q. y.  
 S. 10-12' pet. y. in, pale q. out  
 F. among rocks  
 H. " "  
 F. " "  
 F.  
 V. herb.  
 S. 10-15' cor. sty, sty, or, sta, w.  
 V. woody cor. p.  
 on soil along streams  
 " " "  
 F. S.  
 S. 12-15'  
 H. coarse pet. y. striped with deep r. in prox.  
 H. 3-5' ant. y.  
 S. 4-8'  
 V. herb. cor. w.

Jan. 4<sup>th</sup> rocky hillside vic. of Surota 16-1800  
 wooded hillside  
 field  
 wooded hillside  
 deep woods in stream bed.  
 wooded hillside

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16521	<i>Polygala paniculata</i>	H.	cor. w. to <i>pus.</i>
16522	<i>Melastoma</i>	H. 3-5'	cor. deep. p.
16523	<i>Vernonia</i>	V. herb.	cor. pale <i>pus.</i>
16524	<i>Eupatorium</i>	H. 4-6'	cor. w.
16525	<i>Bauhinia</i>	H. coarse T. 10-15'	pet. w.
16526	<i>Hibiscus</i>	S. 8-15'	cor. y, becoming r. with age.
16527	<i>Passiflora cuneata</i>	V. herb.	
16528	<i>Bauhinia</i>	S. 8-10'	pet. w.
16529	<i>Spongia</i>	V. herb.	cor. p.
16530	<i>Palisla</i>	T. 10-15'	rays p. cor. q. y. sty. y.
16531	<i>Solanum</i>	S. 4-6'	cor. w.
16532	(caup.)	S. 5-8'	ant. y. cor. y. sta. dr. ray y.
16533	<i>Eupatorium</i>	S. 6-8'	cor. w. lobes + sty.
16534	(caup.)	S. stem 1/2 diam at base. H. 4-6' woody at base	li. p. ray. w. cor. q.
16535	<i>Mauettia</i>	V. herb.	cor. q. w.
16536	<i>Melastoma</i>	H. 2-4'	pet. deep. p.
16537	<i>Salusoga</i>	H. slender	ray w, cor. q. y.
16538	<i>Castilleja</i>	H.	br. q, deep r. at apex
16539	<i>Alausa</i>	H.	cor. o. p. fil. q. ant. y.
16540	<i>Oxalis "accedera"</i>	H. succ.	pet. y.
16541	<i>Solanum</i>	V. herb.	cor. w, sty. y.
16542	<i>Cufea</i>	H. sub-proc.	pet. li. p, q. y. at base
16543	<i>Fusclia cordulata</i>	V. woody	cal. r. pet. pu. r. sty. + sty. + fil. r. ant. dee. par. r.
16544	<i>Miconia</i>	S. or small T. 10-15'	cal. q. w. fil. + pet. w.
16545	<i>Centropogon rosea</i>	V. with woody base.	cor. tube p. ant. p. w. w.
16546	(orchid.)	H. terr.	lobes p. "gyn." w.
16547	<i>Stenophyllus</i>	H.	fr. q.
16548	<i>Carex</i>	H.	
16549	<i>Centropogon alba</i>	V. woody	cor. pure w.
16550	<i>Eupatorium</i>	S. or low T. 8-15'	cor, sty, net. pu. pi
16551	<i>Elaphoglossum</i>	F.	
16552	<i>Smilax</i>	V. woody	per. q.
16553	<i>Vernonia</i>	S. 8-10'	bran. elong. sub-ocan. pap. w. cor. w, lobes p.
16554	grass	H.	
16555	<i>Elaphoglossum</i>	F.	

Jan. 4. open slopes vic of Surata 160-1800

wooded slopes  
open slopes

Jan. 5 thicket

exposed hillside, valley of R. Sur.  
above Surata 2000-2300

rocky wooded slope

dry hillside

edge of woods  
dry rocky hillside  
edge of woods

dense forest

16556	<i>Asplenium salicifolium</i>	F.
16557	<i>Dryopteris attenuata</i>	F.
16558	<i>Peperomea</i>	H. succ. H. terr.
16559	<i>Piper</i>	S. 6-8'
16560	<i>Pilea serrata</i>	H. succ. stem rooting at base
16561	<i>Pilea elongata</i>	H. succ. becoming H. scam. to 15' long.
16562	(orchid.)	E. H. fr. g.
16563	<i>Asplenium dissectum</i>	F.
16564	<i>Peperomea</i>	H. on trees
16565	<i>Artthuriium hastatum</i>	H. <del>on trees</del> H. terr.
16566	moss	on decaying wood
16567	<i>Sellaginella</i>	F. terr.
16568	<i>Peperomea</i>	H. terr.
16569	<i>Polypodium</i>	F. terr.
16570	<i>Cocosepalum</i>	H. lax. cor. w, fr. br. b.
16571	<i>Hydrocotyle</i>	H. slender, fr. li. g.
16572	<i>Peperomea</i>	H. repent.
16573	<i>Artthuriium covipatense</i> N.E.B.	H. on trees
16574	<i>Lantana</i>	H. at base of trees
16575	<i>Piper</i>	S. slender, fr. black 3-4'
16576	hepatic	F. 8-12'
16577	moss	on soil
16578	hepatic	on soil
16579	<i>Sanicula</i>	on wood
16580	<i>Peperomea</i>	H. fr. g.
16581	<i>Cardamine</i>	H. succ. H. terr.
16582	<i>Polypodium decurrens</i>	H. sub-succ. pet. w.
16583	<i>Psychotria</i>	F. 15-20'
16584	<i>Pilea alsinoides</i>	H. succ. repent at base
16585	<i>Polygala</i>	H. erect slender pet. rich pur. keel p. w.
16586	<i>Piper</i>	H. 3-4'
16587	<i>Syngramma</i>	T. 8-12'
16588	<i>Phyllodendron</i>	F. fr. 5' incl. stipe (1 1/2') F. caudex 6" 1/4"
16589	(rub.)	H. epathe fr. at base, cream dist.
16590	<i>Cocosepalum glabrum</i>	S. 10-12' cor. w. fr. br. b. H. rather cor. w. fr. dark blue H. succ. 2-4'

Jan. 5 dense forest valley of R. Surata

2000-  
2300

det. T. Croat 1950

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- 16591 Meibomia
- 16592 Piper
- 16593 Eupatorium
- 16594 Ochropteris
- 16595 Calceolaria
- 16596 Saurauya
- 16597 ~~(mat)~~ Siperuma (Rub?)
- 16598 Bacchistus
- 16599 Baccharis
- 16600 (leg.)
- 16601 Xanthoxylum
- 16602 Phragonia
- 16603 Splidacele
- 16604 Fusclia
- 16605 Crotolaria
- 16606 Cissua umbellulubukia
- 16607 Passiflora mollis
- 16608 Bacchistus
- 16609 Venonia
- 16610 Centropogon
- 16611 ~~(mat)~~ Siperuma
- 16612 Rubus
- 16613 Erythrodies
- 16614 Solanum
- 16615 Peperomea
- 16616 Peperomea
- 16617 Psychotria
- 16618 Rubus
- 16619 Salvia "mastranso"
- 16620 Protea (Exp?)
- 16621 Zlibodia
- 16622 Erythrina
- 16623 Cordia caracasana
- 16624 Erigeron
- 16625 Mounina

S 5-10' with elong. slender bran. stem + waxy ju. p. pale green

T 20-25

H woody at base cor. w. sty. w.

F slope 1/2'

H in marshy soil cor. y.

T 40-50'

S 3-4'

T 12-15' with elong. bran. pet. w. fr. r. pet. q. w.

S 8-12'

T with elong. subsec. bran. pet. w. with r. ju. at center. stem, stragg.

T 20-30'

T 20-30'

S with erect stems cor. w.

S 4-6'

V woody cal. + cor. br. r.

H 3-4' woody at base pet. y. stem, faintly lined prox.

V herb. fr. q.

V herb.

S 10-12' with elong. bran. cor. w, sty. p.

S 8-10' granular lobesp.

V woody cor. rich p. w. in.

S 8-12'

V woody cor. y. q. fr. r.

V woody pet. w.

H tem. per. w. throughout

S 4-8'

H on trees cal. lobesp. out, w. in. cor. p. pu.

H " "

S 5-6' pet. w.

V woody pet. w.

H <sup>used to</sup> <sup>with insects</sup> <sup>in animals</sup> cor. deep b.

S cor. w.

S cor. r. prox, p. dist.

T 15-20'

S 5-7'

H calyx y-gr. an. y-gr. Rays wh., often purple-tinged

S slender Pet. deep blue

Jan 5 dense forest, valley of Surata

2000-2300

edge of woods

faintly lined prox.

Jan. 6 dry hillside, vicinity of Surata  
Valley of Surata, above Surata  
rocky bank  
dry hillside

1600-1800 ft

2000-2400 ft X-2,3

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16626	Comp.	Shrub-branched S 7-10'	Cor. golden-y.
16627	Escallonia floribunda	S <del>8</del> 10'-15' Small tree	Pet. to fil. wh., anther gr.
16628	<del>Palisota</del> Viburnum	T 15-20'	Cor. wh.
16629	Columnnea	H terrestrial	Calyx red, cor. pink
16630	Columnnea	H terrestrial	Bracts red, Calyx pink-red.
16631	Rub.	H 1-2'	Dr. olive-gr.; cor. y-gr.
16632	Asplenium	H	
16633	Convolvulacea	H succ., up to 5'	Out. sepal. purp., pale at wing
16634	Narcgravia	V woody, young branches Los Chichon, Pinar	appressed to tree trunk
16635	Erythroxides	H terrestrial, stem succ.	3 sep. gr., 2 + lip wh.
16636	Polypodium	H ter.	
16637	Peperomia	H on tree succ.	
16638	Trichomanes	H on tree	
16639	Asplenium attenuata	H on tree	
16640	Carlodivia	H ter.	Spadix green
16641	Urcinia	H	
16642	Peperomia	H on tree	
16643	Iresine	S 4'	
16644	Orchid	H on base of tree	Infl. gr.-wh. Fr. green
16645	Orchid	H Epip.	all sep. light pi. <sup>densely spotted</sup> <sub>variegated</sub>
16646	Orchid	H Epip.	with dark purple.
16647	Polypodium	H ter.	
16648	Stenorrhynchus	H ter.	3 sep. bright red, 2 + lip light pink
16649	Rub.	S 1' prostrate branch 5' long	
16650	Braehmetes	S 8-12'	fr. purplish
16651	Piper	S 6-8'	
16652	Asplenium	H ter. on trees	
16653	Polypodium	H <sup>base of</sup> trees	
16654	Erythroxides	H ter.	5 sep. wh., spur green
16655	Peperomia	H base of trees succ.	
16656	Peperomia	H succ. on trees 2-10' up	
16657	Eupatorium	S 4-6' succ. <sup>at</sup>	Cor. deep pi., style, light pi.
16658	Trichomanes	H on trees below 2'	
16659	Alsophila	fr. - 6', stipe 3' Caulis buried in ground	
16660	Piper peperonioides	H succ. 1-3' branches up to 6' long	

Jan. 6 edge of woods, Valley of Sumata River, above Sumata  
dense forest

inner wh. ifr. black

with dark purple.

pink

2000-2400 m.

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16696	Baccharis	S 8-15'	sticky	Heads wh.;
16697	Cassia	S 10-12'	compact	Pet. y.
16698	Senecio	S 3-5 ft.		Cor. & styles light y
16699	Albiverticillium	H 2-4'	woody at base	Heads y-g.
16700	Mplowolepis	H		
16701	Melastoma	S 10-15'		Pet. pink, anther y.
16702	Begonia pileifolia	S with spreading branches; 6-9' high		Pet. wh.; st. & anther y.
16703	Cystopteris	H		
16704	Hibiscus	S 7-9'		Pet. pinkish red
16705	Eupatorium	S 7-12'		Cor. gr-wh, lobes & styles <sup>rich</sup> pink
16706	Engenia	T 15-25'		Pet. & stem wh.
16707	Nimulus	H weak		Cor. y.
16708	Eleocharis	H		
16709	Juncus	H 3-4'		
16710	Hydrocotyle	H repent		
16711	Lichen			
16712	Muhlenb. "perijil"	H	used in soup	
16713	Satureja "mejorana"	H	woody, used for digestion	Cor. wh.
16714	Rosmarinus "romero"	S 4-6'	used rheumatism	
16715	Geranium "geranio"	H		Pet. pink, purple streaked at base
16716	Geranium "aroma"	H		Pet. wh.
16717	Eupatorium "almoraduz"	S 6-8'	to cure sick animals	Cor. & styles wh.
16718	Viola "violetta"	H		Pet. deep violet
16719	Dioscorea	V	woody climbing to 20-30'	
16720	Piper	S	or low tree 10-12'	
16721	Rubus glaucus	V	woody; stem 9' much of very	glaucous Pet. wh
16722	Piper	S 5-15'		spikes wh.
16723	Eupatorium	S	with elongate branches, anthers	Cor. gr-wh, lobes purple, styles pink
16724	Jungia	V	woody	Cor. wh, stem green
16725	Piper	S	or almost an herb 1-2 ft. long	
16726	Piper	S	" " "	
16727	Muhlenb.	V	woody	Cor. & styles gr-wh, anther gr.
16728	Rubus macrocarpus	V	woody	Fr. black
16729	Miconia	S 8-12'		Pet. pi-wh, fil. bright y
16730	Prusocotia	H	ter.	Sep. wh? walled

Jan. 6	clearing Valley of Surata River, above Surata clearing edge of forest	2000 -2400 m.	
	among rocks, edge of forest edge of forest		
	marsh		
	mossy banks rocky banks		
7	Vicinity of Surata		Coll. by Eloy Amaya growing on limestone
6	edge of forest		
	dense forest		
		4	
		1	
		3	
	mossy banks		

16731	Equisetum	H	
16732	Elaphoglossum	H	
16733	Elaphoglossum	H	
16734	Histiopleris	H	Stipe 3', fr. 3'
16735	<del>Hymenophyllum</del> Trichomanes	H ter.	
16736	Grass	H	
16737	Orchid	H ter.	
16738	Oenothera	H	Pet. red to or.-red
16739	Palicourea	S 8-10'	Cor. gr.-wh., lobes green
16740	Justicia	H	Cor. rich pink
16741	Piper	S with prostrate branches, 2-3' long	
16742	Centropogon	V woody	Cor. rich pink, pale within
16743	Viburnum	T 8-15'	Cor. wh.
16744	Quercus	T 40-50'	Sep. green
16745	Weinmannia	T 15-25' (fr.)	Pet. & fil. wh., auct. light green
16746	Lichen	Ter.	
16747	Moss	"	
16748	Polytrichum	"	
16749	Moss	"	
16750	Juniperus	T 30-40'	Fr. blue
16751	Pleurorhalla	H Epip.	Fls. pure white throat
16752	Epidendrum	H Epip.	5 sep + lip wh., deep purpl.
16753	Anthurium	H scandent on tree trunks	Spadix green
16754	Gomphrena	H prostrate	Heads gr.-wh.
16755	Loureia	N vine	Cor. wh., turning yellow when wilted
16756	Verbena	H 1-2.5'	Cor. pinkish-bl.
16757	Sterculia "malva"	H 1-4' Coarse	Pet. rich pi., darker prof.
16758	Boussingaultia	N vine	Pet. wh., becoming pink at tips of lobes
16759	Duranta	S with elongate drooping br.	Cor. gr. pur., pale pi. <sup>at tips of lobes</sup> <sup>deep</sup> pink
16760	Schomburgkia	H ter 4-8'	Sep. deep pi., lip light pi.
16761	Begonia	S 4-6'	Sep. light pi., fil. & auct. y
16762	Chrysanthemum	H	Rays wh., cor. gr.-y
16763	Castilleja	N woody at base 1-2'	Sep. (in br.) light r., hairy part
16764	Thibaudia	S 6-15'	Br. & calyx red-pi., cor.
16765	Loureia	S 2-4'	Fr. dull red

Jan. 6	Wet field, Valley of Surata River, above Surata	2000 -2400 m.	
	dry banks		
	dense forest		
	dry banks		
	edge of forest		
	dense forest		
	edge of forest		
	forest		
	edge of forest		
	dry banks		
	damp soil		
	dry banks		
	" "		
	in park (cult.) Surata	1740 m.	
7	woods along stream.	1700 m.	
	at very base; column y dist.		
8	waste places		
	probably cultivated		
	waste places		
	purple thicket, between Surata & California	1740 -2000 m.	X-4
	at tips of lobes		
	nearly wh. at center of lobes. Open hillside, bet. Cal. & La Baja	2000 #600	Y-1
	Style gr., stigma y		
	of cor. y-g, rest pi.		
	brown-red, light pi. lobes		

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16766	Vaccinium	S 4-6'	Calyx gr., cor. light pi. lobes deep
16767	Vaccinium	S 1-3'	" light gr. cor. wh. <sup>base</sup> pi.
16768	Proteaceae	S 8-12'	Calyx & anther gr.
16769	Melastomaceae	H woody	Pet. gr.-y. st. & anther rich y
16770	Peperomia glauca	S ± 10 ft.	Cor. rich pi., st. wh., anther gr.
16771	Escallonia floribunda	T small, 10-15'	Pet. & fil. wh., anther olive-gr.
16772	Salvia	H coarse, 4-6'	Calyx cor. red
16773	Cestrum	T 15-25'	Cor. tube wh., lobes wh. margin
16774	Stipa	H	
16775	Piper	S 4-6'	Young spikes gr.-wh.
16776	Tuebsia	S 10-12'	Calyx & pet. bright red, pet
16777	Thibaudia	S 5-10'	Cal. dark gr., lobes light
16778	Rubus	V woody	Pet. light pi. Sep. wh. -
16779	Centropogon	V woody	Tube rich pi., nearly wh. <sup>interior</sup>
16780	Piper	S 6-8'	Spikes nearly wh.
16781	Epidendrum album	H Ter	5 seps. light pi. out, wh. in,
16782	Acalypha	S 10-12'	Style deep pinkish-red
16783	Epidendrum roseum	H Ter	5 seps. rich pi., lip light pi., col.
16784	Coriaria	T 8-12'	Anther y-g. Sep. deep purple
16785	Epidendrum	H Ter	5 seps. in. out, wh.-y. in.
16786	Polygala	H prostrate, 2-3'	Pet. deep purple, fr. gr.
16787	Passiflora maximiliana	H twining vine	See notes
16788	Mimulus	H	Cor. bright y
16789	Croton	S 3-5'	Sep. light gr. pet, fil, anther wh.
16790	Phypalis	H coarse 3-5'	Cor. out purple base, wh. mid. pen. lobes
16791	Neurtha	V herbaceous	Cor. light pi.
16792	Phaseolus	V herb.	See notes
16793	Piper	S 6-12'	Pet. light or, becoming brown
16794	Lasiacis	V much branched	
16795	Alluvia violacea	H coarse to 4'	sep. red-purple; pet. rich pi.
16796	Morimia	H up to 3'	Pet. deep purple
16797	Justicia	H 3-10' pubescent	br. deep pi. red, Cor. light
16798	Acalypha	T 15-25'	♂ gr. gr.; style pi. red.
16799	Grass? "milio"	H 5' high or more los	fr. green; used as popcorn
16800	Orchid	H epiphyt	but small See notes

Jan. 8	open hillside	Between California & La Baja	2000-2600m.
	thickets	Vic. Surata'	1700 -1800m.
	slightly lighter, open hillside,	bet. California & La Baja	2000-2000m.
	Cor. tube deep red, prox., dist. & lobes green, fil. wh. <sup>anther bright</sup> pale dist.		
	marginated; st. wh. anther gr.		
	Tube brown, col. br.-purple, lip wh., crown y. / rocky hillside		2 Y-2
	open hillside		
	lip purple. prox. gr. y. dist., crown y. / rocky hillside		
	purple open hillside		
	col. purple. br., lips y.		
	thickets		Y-1
	marshy place, bet. Surata' & California		1740-2000m.
	open hillside		
	in purple. striped base, wh. mid., lobes purple.		
	thickets		
	Surata', sparingly cult.; from "Tierra Caliente"		2
	10 woods along streams, Surata'		1700m.

- 16801 *Chenopodium* "paico" H 2-3' Plant y-g.
- 16802 *Plantago* "elamaisa" ~~plantain~~ H medicinal for inflammation
- 16803 *Tapeinidium* H epip.
- 16804 *Diplazium* H epip.
- 16805 *Begonia* H epip. suc. P. sep. wh. ♀ Pet. light pi.
- 16806 *Thalassantia* H ter. Per. light pi.
- 16807 *Oreocanthus* S epip. spikes gr.
- 16808 *Doryopteris* H ter. & epip.
- 16809 *Asplenium* H
- 16810 Moss On partly submerged rocks
- 16811 Rub? V herb Tube gr., lobes wh. hairs wh
- 16812 *Eugenia jambos* T 20-30' Pet. ostam. gr. - wh.
- 16813 *Zanthoxylum* S shrub T. 10-12' Pet. wh. many, gr. center
- 16814 *Solanum?* V herb. Bl. buds gr.
- 16815 *Peperomia "anthurioides"* H succ. on tree Spikes green
- 16816 *Dicliptera* H subscandent Calyx gr. pur., fr. dist. obts. cor. pinkish-red
- 16817 *Polypodium* H ter. moist banks
- 16818 Moss On tree
- 16819 Moss On moist soil
- 16820 *Sambucus* "saico" T 8-10' used for ~~calorho~~ grippe
- 16821 Scroph.? V herb. Cor. tube wh. procs along lower side, otherwise
- 16822 *Caesalpinia* S small tree, in dense clumps, stem slender.
- 16823 *Pouzolzia* H woody below
- 16824 *Eupatorium* S 9-12' pi. - tinged
- 16825 *Cestrum* S 8-12' along br. Cor. gr. - y., styles light gr.
- 16826 *Adenaria* S 4-8' Pet. wh.
- 16827 *Phaseolus* V herb. See notes
- 16828 *Cassia* T 12-20' Pet. bright y
- 16829 *Cordia floribunda* S 5-8' Cor. gr. - wh.
- 16830 *Bidens* H Rays wh., cor. gray.
- 16831 *Hiraea* V herb. Pet. y
- 16832 *Mimosa* S or sm. T 10-15' Stam. gr. - wh. (walled)
- 16833 *Salix* (not *S. Humboldtiana*) T 50-60' 2-2.5 diam. Awool gr.
- 16834 *Passiflora suberosa* V herb. Tube purple out base; grass gr.
- 16835 Grass H drooping over road.

Jan. 10 field Santa 1700m.

woods along stream

with y-g thickets along stream

calyx tube pi. woods along stream

fil. ovals. gr.

open hillside

Jan. 11 open hillside, perhaps escape

bet. Santa & California 1800m. 1740 - 2000m.

perhaps introduced

16836	Rust on 16835		
16837	Parosela	H 2.5-4', woody below	Pet. all wh. prox, purp. dist.
16838	Ipomoea	V herb twining	Cor. pi.-purp, lobes paler
16839	Cissampelos	V herb twining	Fls. green
16840	Eugenia	T small	Pet. wh., fil. pi. prox.
16841	Euaphalia	T 10-15'	Fls. wh.
16842	Datura	H 3-6'	Cor. pinkish-blue
16843	Croton	H 3-6'	Pet. gr.-wh, fil. wh, anth. g.
16844	Cestrum	S	Cor. gr.-wh.
16845	Stipa	H slender	Fls. reddish
16846	Agrostis	H	Fls. reddish
16847	Syntherisma	H	
16848	Asteropygon	H	Fls. wh.
16849	Comp.	H semiprostrate	Head, gr. wh.
16850	Dryopteris	H	Fronds bright green
16851	Cheilanthes	H	
16852	Mimosa	S 5-10'	Fls. - deep to light pi, anthers
16853	Oxalis	H basal lvs subopposed on ground	Cor. Pet. y.
16854	Phaseolus	V Herb	Pet. deep blue, dist., wh. prox.
16855	Albionia	S 2-3'	Fls. bluish-purp. anth. y-g
16856	Borreria	H	Cor wh. to light pi.
16857	Notholaena	H	
16858	Polyala pauciculata	H slender	Sep. gr., wh. marg. Pet. wh, pi tip
16859	Carex	H	Dr. gr., bristles purplish
16860	Cerfolia	H	Pet. rich pi.
16861	Asplenium	H	
16862	Polyala	H	Sep. gr. to deep purp.
16863	Cyperus	H	Pet. purplish-pi.
16864	Chaetochloa	H	
16865	Ganthophyllum	T 8-12'	Pet. gray.
16866	Comp.?	S 2-5', very glutinous	Cor. wh. to pi.
16867	Anagallis	H weak, prostrate	Pet. bright blue, darker at base
16868	Neiburnia	H 3-5', lax	Pet. pi-purp., paler prox.
16869	Sterculia	H coarse	Pet. purpl.-pi.
16870	Sourhus	H coarse 2-4'	Ramp of florets y

Jan. 11	open hillside, Bet. Durata + California	1700-2000m	1	16836
			2	16837
			1	16838
			2	16839
			1	16840
			1	16841
	California	+2000m.		16842
				16843
				16844
				16845
				16846
				16847
				16848
			2	16849
				16850
				16851
				16852
				16853
12	rocky hillside			16854
8	thicket	Bet. Durata + California	1700-2000m	16855
12	open hillside, above California	2000-2400m.		16856
				16857
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			1	16864
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16906	<i>Sanecis</i>	S 6-8'	Heads y
16907	<i>Vaccinium</i>	S 4-6'	Buds wh., Cor. pi.
16908	<i>Meriania</i>	S 4-10'	Pet. mag. pi., fls. reddish
16909	<i>Psychotria</i>	S 6-8'	Ripe fr. black
16910	<i>Arcytophyllum</i>	S low, <i>sempervivens</i> <i>franchetii</i>	Cr. wh.
16911	<i>Cyathea</i>	Canes 2' high, 8" diam.	semeres T
16912	<i>Passiflora</i>	H	Pet. deep violet, fls. white
16913	<i>Oralis 'accedera'</i>	H succ.	Pet. y.
16914	<i>Elaphoglossum</i>	H ter.	
16915	<i>Brassica</i>	T 10-15'	Fls. white, fr. wh.
16916	<i>Viburnum tomentosum</i>	T 10-15'	Buds green, fls. wh.
16917	<i>Polytrichum</i>	On banks	
16918	Lichen	Dry branches	
16919	Hep.	Damp tree trunks	
16920	Moss	On trees	
16921	Lichen	On rocks	
16922	Lichen		
16923	Lichen		
16924	Moss	On banks	
16925	Moss	On banks	
16926	Hep.??	On dry banks	
16927	Moss	On rocky banks	
16928	<i>Centropogon</i>	V woody	Cr. red, fls. pale pi. in
16929	<i>Eupatorium</i>	S 4-8'	Cr. gr. w., lobes, stem, rich pi
16930	<i>Psychotria</i>	S 2-4'	infl. deep greenish - y
16931	<i>Viburnum</i>	T slender, 10-12'	fr. gr., not ripe?
16932	<i>Hydrocotyle</i>	H rep.	infl. gr.
16933	<i>Saurauja</i>	T 12-15'	Pet. wh., anth. y
16934	<i>Solanum 'arbol de cocua'</i>	S 10-12'	Cr wh. green underneath, anth. y
16935	<i>Pomarea</i>	V woody	See notes
16936	<i>Paspalum</i>	H	
16937	<i>Asplenium</i>	H epib?	
16938	<i>Polypodium</i>		fr. y-gr., stem purple
16939	<i>Vitis</i>	V herb.	Pet. y-gr.
16940	<i>Agrostis</i>	Slender grass	

Jan. 12	edge of woods, above California	2800 -3000m.	30021
auth y.	<del>open woods</del>		30031
	edge of woods		30041
	open woods		30051
	edge of woods		30061
	open woods (cult.?)		30071
	open woods		30081
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16941	Comp.	S 10-12'	Pappus gr. wh.
16942	Lycopodium	H repent	Spikes wh.
16943	Davilla	T 8-12'	Fr. reddish-br.
16944	Elaphoglossum	H <sup>ter.</sup>	
16945	Centropogon	S low, branches scandent	Cor. red out, pi. wh in.
16946	Castilleja	H 1.5-2'	Br. gr. proc, y, dist.
16947	Solanum	S 2-4'	Cor. gr. wh., anthers y
16948	Solanum	H 3-4'	Cor. pale pi., purple out
16949	Solanum "turno"	S 4-6'	Cor. light blue,
16950	Moss	dry banks	
16951	Parietaria	H	Per. o br. gr.
16952	Cestrum "minigua"	S 10-15'	Cor. or.
16953	Piper	S 12-20'	Spikes green
16954	Eriochloa	H	
16955	Verbenaceae	T 15-20'	Cor. gr.-wh.
16956	<del>Galium</del> <del>Cupress</del>	H matted	Fr. gr.
16957	Solanum	H 1-1.5', woody at base	Cor. wh. many, purp. cent.
16958	Scroph.	H 6-15 inches	Cor. wh., <del>br.</del> y-g at throat
16959	? "tamapaco"	T 12-15'	Pet. pi.-wh., anthers reddish
16960	Rubus	S 2-4'	Pet. light pi.
16961	Eupatorium	S 2-4'	Cor. o style pure wh.
16962	Rust on 16961		
16963	Rubus glaucus	S 5-8'	Pet. light pi. to wh.
16964	Polystichum	H	
16965	Asplenium	N	
16966	Stipa	H	
16967	Dalceolaria	H <sup>+</sup> succulent	Cor. y.
16968	Carex	N	
16969	Paspalum	H	
16970	Solanum	V woody H 2-5'	Cor. wh., <sup>see notes</sup> milky pi., anthers y
16971	Salvia	V woody	See notes
16972	Comp.	H	Rays pi. wh., cor. gr.
16973	Salvia	S 8-12' ± viscous	See notes
16974	Grass	V herb	
16975	Peperomia	H succ. epiphyte	infl. gr.-wh.

Jan 12 open hillside above California

3000 m.

lobes red  
cor. bright red.

at middle  
with y.

edge of woods  
open woods

edge of woods

with y  
throat within, edge of woods

edge of stream

dry bank

open woods

open woods

edge of woods

3000 -  
2500 m.

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16976	Marchantia	On wet rocks	
16977	Marchantia	" " "	
16978	Nep.	" " "	
16979	Lichen	Pl. bright orange	
16980	Lichen		
16981	Schizocarpus ? "flor de lata"	H ter. 8-20'	See notes
16982	Lippia	T 10-15'	Cor. wh.
16983	Solanum	S 4-5'	Cor. wh. anther y
16984	Anthurium	H ter	Spadix dark gr., spathe light gr.
16985	Polypodium	H ter	
16986	Polystichum	H ter	
16987	Miconia	S 4-6'	Pet. light pi., fil. reddish pi., anther y, red dorsally
16988	grass	H	
16989	Pilea alacrioides	H weak, rooting below	achenes light gr.
16990	Pilea dancuvdora	H stem red, succ.	
16991	Polypodium	H ter.	
16992	Anthurium	H ter?	Pet. red. purple, spathe gr. margin, br. center out, pi. in., fls. wh. young spad. deep purp
16993	Centropogon	V woody below	Cor. rich pi. out, pi. in
16994	Blechnum	H	
16995	Centropogon	V woody	Cor light red, pale purp, lobes darker (out); pi. in.
16996	Cyathea <i>T. pauciflora</i> (Bl.) Kuhn fern	Caudex er. 8-10'; fr. 6-8';	stipe ± 1'
16997	Marchantia	Wet rocks	
16998	Alternanthera	H <sup>subcaulescent</sup> br. up to 6' long	Heads rich purple
16999	Lichen		
17000	Dichsonia	Caudex decumbent or subterranean, stipe 1-1.5'; frond 4-6'	
17001	Peperomia	H epip.	
17002	Phoradendron	S epip.	Spikes yellowish
17003	Cestrum	S 6-8'	Cor. gr.-y.
17004	Richardia	V herb	Cor. purp <del>at base</del> light gr.
17005	Coreopsis	S low	Ray bright y; cor. gr., lobes or
17006	Borreria	H ter. prostrate	Cor. wh., lobes faintly tinged
17007	Browallia	H	Tube pi out, lobes bright blue
17008	Momina	H 3-5'	Pet. rich blue
17009	Adiantum	H ter.	
17010	Asplenium	H	

Jan. 12	woods	above California	3000-2500m.	16976
				16977
				16978
	rocky banks			16979
				16980
			2500-2300m.	16981
	woods			16982
			1	16983
				16984
			2	16985
				16986
			1	16987
				16988
			2	16989
				16990
			2	16991
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				16996
				16997
	open hillsides	California	2000m.	16998
			1900-2000m.	16999
13	woods	near California		17000
				17001
				17002
				17003
				17004
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				17006
			2	17007
				17008
			2	17009
				17010





17081	<i>Anthurium</i>	H epip.?	
17082	<i>Malaxis</i>	H epip	See notes
17083	<i>Viburnum</i>	S 8-12'	Cor. wh.
17084	<i>Polystichum</i>	H ter.	
17085	<i>Duranta</i>	S 12-20' slender	fr. cr.
17086	<i>Clavija</i>	T 8-10' trunk erect, 1" diam. <sup>rep.</sup> lvs in crown summit fr. or. red	
17087	Myrsinaceae?	S 15-20' slender	Cor. light pi.
17088	<i>Asplenium</i>	H epip.	
17089	<i>Tapeinidium</i>	H epip.	
17090	<i>Pilea parietaria</i>	H sup. rooting stem below	
17091	<i>Centropogon</i>	V herb	Cor. rich pi out, <sup>pale</sup> in
17092	Rub.	H ± woody below	fr. scarlet
17093	<i>Tropaeolum</i>	V herb.	Calyx y-garish & lobes <sup>rep.</sup> pi. red below; pet. & fil. deep purple, anthers gray-pi.
17094	<i>Ruellia</i>	H	Bracts pale
17095	<i>Heliconia canna</i>	H tall	lag. or, pale prox.
17096	<i>Gleichenia</i> "laclinpa"	H	Sep. purple <sup>bracts</sup> prox, gr. above, fil. red-pump.
17097	<i>Solanum</i> "cocia"	S 10-12'	Cor. wh, gr. tinged out anthers y.
17098	<i>Desman?</i>	H 2-4'?	fr. wh.
17099	<i>Justicia Spigelia</i>	H	Cor. rich pi.
17100	<i>Peperomia</i>	H succ. ter.?	
17101	<i>Eupatorium</i>	?	Cor. gr.-wh, lobes deep pi, styles light pi.
17102	<i>Tournefortia</i>	S 5-8'	Pet. wh., fr. gr.
17103	<i>Peperomia</i>	H	
17104	<i>Phytolacca</i>	H 1-2.5'	Sep. <sup>calyx</sup> rich pi. at base, gr. else, styles red pi.
17105	<i>Adiantum</i>		
17106	<i>Mimulus</i>	H <sup>coarse</sup> 3-5'	Cor. gr., lobes pi. tinged
17107	Moss	Moist banks	
17108	"	Wet logs	
17109	"	" "	
17110	"	" "	
17111	"	" " } <i>repitua</i>	
17112	"	" " }	
17113	"	" "	
17114	<i>Anthurium</i>	H ter.	
17115	<i>Tillandsia</i>	H epip.	

Jan. 13 woods near California

2400  
-2000m.

stream bed

purple, anthers gray-pi.

fil. red-pump.

anthers y.

styles light pi.

*Anthurium coripetense* N. S. Br. det. D. Croat 1990

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18112  
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18115

17116	Mesquite	V herb.	Young heads gray wh.
17117	Pisum?	H 1-1.5'	St. wh. purpl streaked
17118	Melastom.	H woody	Pets. & anthers bright y
17119	Carex	H	
17120	Euphorb.?	<del>H 2-3'</del> S	
17121	Eupatorium	H 2-3'	Cor. gr.-wh., lobes o
17122	Phytolacca	H coarse succ	style deep pi. open banks
17123	Mupia	S 8-12'	Sep. & styles rich pi.
17124	Alsophila		Dr. gr.
17125	Eriolaena	Caudex 1', semi-decumbent; stipe 2-3', fr 6-10'	
17126	Sauvasteria	H	
17127	Piper	S 8-10'	Dr. black
17128	Lycopodium	S 8-15'	Spikes gr. sep.
17129	Eupatorium	H trailing over banks	Cor. light y. lower 1/2, pi. wh. lobes wh. to light pi.
17130	Eupatorium	S 8-12'	
17131	Comp.	S branches, herbaceous	Cor. apparently wh, but with
17132	Tiliaceae	H	heads or rays y.
17133	Verbesina or Coreopsis?	T 12-20'	Pet. gr. y, but young
17134	Cuphea	S 8-12'	Ray bright y; cor. y-or
17135	Cinchona	H	Calyx red-purp; Pet. pi.
17136	Muehlenbeckia tamnifolia	T 20-25'; trunk slender, 3" diam	Cor. pinkish, wh. in.
17137	Castilleja	V herb	Per. y-g.; fr. y-g.
17138	Hypericum	H woody below	Br. y-g. sep. red, y. app
17139	Grass	H woody	Pet. y
17140	Castilleja (= 17137??)	H woody below	Colony as in 17137
17141	Escallonia floribunda	T 10-20'	Pet. wh
17142	Meibomia	H demipustate	Pet deep blue
17143	Psoralea	S 10-15'; much branched below	Pet. bright blue.
17144	Centropogon	V woody	Cor. red
17145	Myrsinaceae foranck	T 15-20'	Fr. light gr.
17146	Alsophila	Caudex decumbent or subter.; stipe 2', fr. 4-5'	
17147	Rubus	V woody	Pet. wh.
17148	Passiflora mixta	V woody	See notes
17149	Parietaria	H erect	Per. gr. wh.
17150	Salvia	H fr. erect	Cor. deep blue

Jan. 13 wood near California ±2000m  
 14 open banks Pet. California La Baja 2700 -2600m.

Thickets  
 styles deep pi. open banks  
 Dr. black  
 Spikes gr. sep.  
 Cor. light y. lower 1/2, pi. wh. lobes wh. to light pi.  
 Cor. apparently wh, but with  
 heads or rays y.  
 Pet. gr. y, but young  
 Ray bright y; cor. y-or  
 Calyx red-purp; Pet. pi.  
 Cor. pinkish, wh. in.  
 Per. y-g.; fr. y-g.  
 Br. y-g. sep. red, y. app  
 Pet. y  
 Colony as in 17137  
 Pet. wh  
 Pet deep blue  
 Pet. bright blue.  
 Cor. red  
 Fr. light gr.

Thickets north of La Baja 2700 -2900m.  
 shaded bank  
 clearing open





17186	<i>Stenorrhynchos</i>	H sec ter	3 net sep red, 2 in. pi. 'lip' wh.
17187	<i>Bomarea</i>	V herb	See notes
17188	<i>Pilea lauciodora</i>	H sec	
17189	<del><i>Elaphoglossum</i></del> <i>Sida</i>	H ter.	
17190	<i>Elaphoglossum</i>	H ter.	
17191	<i>Solanaceae</i>	S with much -	Cor. pi-w, anther y.
17192	<i>Solanum</i>	S gnarled branch H woody below	Cor. light bl, " "
17193	<i>Episcadium</i>	H	See notes
17194	<i>Transeria</i>	S 8-12'	Cor. gr.-y.
17195	<i>Vernonia?</i> <i>Exp. B.</i>	V woody	Pappus wh.
17196	<i>Passiflora mollis</i>	V herb	
17197	" <i>ligularis</i>	V herb woody	See notes
17198	mos	on banks	Black
17199	mos	on banks	
17200	<i>Passiflora rugosa</i>	V woody	See notes
17201	<i>Alsophila</i>	Caudex subter -	stipe 1-2', fr. 2'
17202	<i>Centropogon</i>	S 2-4'	Cor. deep red out, pi. wh.
17203	<i>Eupatorium</i>	S 4-6'	Tube, lobes, style, pi.
17204	<i>Bidens</i>	H woody below	Cor. gr., tube - lobes
17205	<i>Eupatorium</i>	H woody below	Cor. style, wh.
17206	<i>Miconia</i>	S on tree	Dr. wh. purpl.
17207	<i>Tillandsia</i>	H epip.	Calyp. lvs. gr. <del>red</del>
17208	<i>Centropogon</i>	V woody	red fls.; buds orange
17209	<i>Psychotria</i>	S 8-10'	Tube red out, 2-pi in.
17210	<i>Escobedia</i>	H 1.5-3'	See notes
17211	<i>Eriochloa</i>	H	Cor. wh.
17212	Orchid	H	Inf. wine-color
17213	<i>Castilleja</i>	H	See notes
17214	<i>Senecio</i>	S 4-8'	bracts bright red. <del>sub</del>
17215	<i>Daultheria</i>	S 2-4'	Heads of
17216	<i>Eupatorium</i>	S 4-5'	Calyp. gr. pi. tube
17217	<i>Defaria</i>	S 1-2'	Cor. pi-w, lobes, sty. deep
17218	Lichen	S	Cor. ul. at base, rich pt.
17219	<i>Trichomanes</i>	On dry twigs	
17220	<i>Hymenophyllum</i>	H epip.	

Jan. 14 ~~Stratford~~ woods above La Baya 2700-2900m

rocky bank

clearing

open hillside

15. woods above California on road to Paramo Rico 3000-3500m

open hillside

light pi, lobes deep pi.  
light pi; with light gr. fls. viscous

woods <sup>w. slopes</sup> edge of Paramo Rico 3600-4000m  
paramillo

88171  
78172  
88173  
98174  
00175  
10176  
20177  
30178  
40179  
50180  
60181  
70182  
80183  
90184  
00185  
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00195  
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30198  
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60201  
70202  
80203  
90204  
00205  
10206  
20207  
30208  
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50210  
60211  
70212  
80213  
90214  
00215  
10216  
20217  
30218  
40219  
50220

17221	Hymenophyllum	H epip.	
17222	Odontosoria	Vine	
17223	Columnea	H ter?	
17224	Cestrum	S low	
17225	Castilleja	N wood below	
17226	Calceolaria	S low	
17227	Arnica	H 6-10' coarse trunc.	
17228	Verbesina	S 6-10'	
17229	Melastom.	S low	
17230	Eupatorium	S 6-90'	
17231	Eupatorium	S	
17232	Fern (like Polystichum)	H	
17233	Cestrum	S	
17234	Alonsoa	H woody below	
17235	Passiflora nixta	V woody below	
17236	Juchisia	V	
17237	Lupinus	H 2-2.5'	
17238	Barnadesia	S 9-12'	
17239	Alnus	S 20-25'	
17240	Gaultheria	S 15' (2)	
17241	Pleurothallis	H epip.	
17242	Orchid	H epip.	
17243	Eupatorium	S 2-4'	
17244	Verbesina	S 6-8'	
17245	Echeveria	H succ.	
17246	Digitalis	H	
17247	Stevia	S 1-2' mucous	
17248	Marrubium	H 4-8' elongate br., woody below	
17249	Solanum	S 6-12'	
17250	Cheilanthes	H	
17251	Elaphoglossum	H ter	
17252	Vicia	V herb	
17253	Calceolaria	S 1.5-4'	
17254	Polylepis	S 3-4', dry pine	
17255	Hypericum	S 1-2'	

au. 15	paramillo w. sl. woods. edge of Paramo Rico	3600 +4000 m.
	round margin	
	Br. gr. entate base, red calyx gr., cor. tube purple br. red, gr. prox.	back, lobes, anthers stigma green
	Cor. y	
	Rays of florets bright purple	anthers purple-black
	Rays y, florets deep	
	?	
	See notes	
	Cor. tube gr. wh., lobes o style wh, pi. tinged,	with purple.
	Tube deep purple, lobes gr.	
	Cor. or. - red.	(3) edge of woods, Bet. California & Vetas
	See notes	2500 -3500 m.
	Tube o sep. pi, deeper purple pet. red	
	Pet. bright bl, paler out	
	rays pi. wh. cor.	
	pi. prox, brown dist.	style, wh. prox, pi. dist
	Cor. rich pi. slightly all parts of flower brown - or.	
	See notes	
	Br. purple, cor. gr. w prox purple pi. dist. o lobes red	(1) 16 open, mostly rocky, hillside, Vic. Vetas
	Rays of florets y	3100 -3250 m.
	Pet. pi. pale, y, gr. tinged	dist.
	See notes	
	Cor. atyls pi to wh	
	Cor. pi wh, blue dotted	anthers in
	Cor. wh. anthers y.	
	See notes	
	Cor. bright y	
	Pet. y; st. ± 50	

17256	Agrostis	H	
17257	Eragrostis? <del>tenax?</del>	H 2-3'	heads gr. wh may y-g cent.
17258	Elaphoglossum	H	
17259	Asplenium	H	
17260	Asplenium	H	
17261	Fern (like Polystichum)	H	
17262	Oralis	H matted or upright	Pet. y
17263	Cestrum	S 2-6'	Included, pump, lobes wh, paler gray margin
17264	Eupatorium	S 3-6' lvs rather fleshy	Cor. <sup>prob</sup> other part wh.
17265	Urtica nsp.	S 2-3' drooping & branched	Cor. <sup>prob</sup> alingens hairs gr. wh.
17266	Malvastrum	H caespitose; lvs flat on ground	Pet. pale pi, nearly wh.
17267	Solanum	S 1-2'	Cor. wh, anthers y.
17268	Serecia	S 4-8'	Heads light y.
17269	Stevia	H woody	Cor. & style light pi
17270	Centropogon	S 2-4'	Cor. bright red, pale pi in
17271	Centropogon	S 4-7'	" " " " "
17272	Nucoua	S 4-6'	Pet., st. rather w
17273	Pernettya	S 4-8'	Cor. wh.
17274	Befaria	S 2-3'	Cor. & fil. red-pi rather at y
17275	Geranium	H	Pet. pi.
17276	<del>Muehlenbeckia</del> <del>Polystichum</del>	V herb	Per. y-g.
17277	Polystichum	H	
17278	Peperomia	H Epip	
17279	Bomarea	V herb	See notes
17280	Thibaudia	S 8-12'	Calyx brown, gr. margin;
17281	Thibaudia	S 6-8'	Cor. deep red, lobes pi at <sup>floral</sup> lobes
17282	Moss	On banks	
17283	"	" "	
17284	Lichen	" "	
17285	Sphagnum	Moist soil	
17286	Peperomia	H Epip	Species wh.
17287	Peperomia	H herb	Spikes gr.
17288	Eriochlaena	H	Infl. purple-red.
17289	Elaphoglossum	H	
17290	Lupinus	H	Pet. bright blue in, out

u. 16 open, mostly rocky hillsides, Via Velas

3100  
-3250m

2

