Mexican Compositae from Mrs. Abbott.

18. **Vernonia pallens** Sch. Bip.

43. **Liabum adenotrichum** Greenm. ? A parently this species and if so a big extension north from Oaxaca. Please get branch with leaves.

54. **Aster lima** Lindl.

57. **Dyssodia Seleri** Robins. & Greenm. Second known collection. Originally collected near Cuernavaca. A good find!

57A. equal 57.

58. **Trixis longifolia** Don var. sericea Rob. & Greenm. Rare.

59. **Trixis megalophylla** Greenm. Second known collection. Please recollect from other stations.

64. **Eupatorium macrophyllum** L. Rare in Mexico. How large do the leaves get on your local plant. Are the inflorescences ever strictly terminal?

66. **Alomia** sp.? A very interesting species which may well be new. Please recollect a generous plant with slightly more mature heads to show good ripe achenes.

67. **Stevia trifida** Lag.

68. **Senecio salignus** DC.

68A. " "

70. **unrecognised**. Interesting but to fragmentary and scanty.

75. **Tagetes subulata** Llav. & Lex.

80. **Senecio cinerarioides** HBK.

83. **Senecio** sp. Very interesting and a beautiful specimen. Our material in this group is away on loan. I will report later when I can make comparisons.

84. **Calea integrifolia** (DC.) Hemsl.

85. **Perezia cuernavacana** Rob. & Greenm. Second known collection and like no. 57 formerly known only from near Cuernavaca. Please recollect to show the wooly base of stem and give notes of habit of growth and height of plant.

88. **Vernonia Salvinae** Hemsl.

89. **Eupatorium Maietianum** DC.

91 " 

92 " 

93 " 

94 " 

102. **Fleischmannia arguta** (HBK.) Robinson

103. **Brickellia squarrosa** (Cav.) Robins.

106. **Eupatorium** sp. Interesting please collect in more mature state. This genus is awful. There are an endless number of species and none of them very sharp and clean cut. Only well prepare specimens showing mature florets and seed can be named.
Mexican Plants from Mrs. Abbott
received March 1936.

41. Cnidoscolus cordifolius (Pax) Johnston?
    Please recollect this plant. Get a good branch showing
    leaf-attachment, mature leaves and flowers. I suspect
    it is an undescribed species.

42. Exogonium bracteatum (Cav.) Choisy

44. Acacia Parnesiana (L.) Willd.

45. Iresine interrupta Benth. Not yet in flower.

46. Diphysa racemosa Rose same as no. 27.

47. Serjania racemosa Schum. same as no. 32.

48. Bursaria jorida (HBK.) Engler

49. Justicea salviaeflora HBK.

50. Loeselia glandulosa Don

51. Tibouchina tringlei Rose

52. salvia regia Cav. This should be in the Harvard Tropical
    garden in Cuba. Can you get some seeds for me?

53. salvia sp. All our Mexican salvias are away on loan. Without
    material for comparison I can't name you specimens in this
    huge and difficult genus. I shall report on your salvias
    later.

55. Anisagalus arvensis L.

56. Asclepias glaucescens HBK.

60. Eranthemum fasciculatum Oerst. An interesting species please
    recollect it in better condition.

61. Exogonium argentifolium (Rich.) House. None of our Mexican
    collections show the mature foliage. Can you collect
    a leaf stem to be added to your collection?

62. Castilleja longiflora Kuntze

63. Russelia cuneata Robins. A rare local species. Yours is the
    second one we have ever received. Please make some more
    and better collections of it.

65. Elytraria squamosa (Jacq.) Lindau

69. Salvia sp.

71. Justicea salviasflora HBK.

72. Lantana v. latina M. & G. ?

73. Loeselia glandulosa Don.

74. Lopezia pubescens HBK. Watch for more kinds of this remarkable
    genus. It is now being monographed by Prof. Munz.

75. Clerodonax fragrans Vent.

76. Jussiaea suffruticosa L.

77. Euphobea ligustrina Boiss. Please recollect to show fruit.

79. Aeschynome petraea Robinson.

81. Cumilla pycnantha Rob. & Greenw.

81A. "

82. Lobelia laxiflora HBK.

85. Ardisia compressa HBK.? Flowers needed for final identification

87. Clothra lanata Mart. & Gal.

95. Phyllonoma laticuspis (Turcz.) Engler. A remarkable and very
    famous plant. Much has been written as to how and why the
    flowers are borne upon the leaf. Please do try to obtain
    seeds so that I can send them to Cuba for growing there.
    Furthermore I would be very grateful for more specimens
    some to be used for laboratory demonstration. The plant
    has not been collected any great number of times, particu-
    larly in Mexico. You made a good ind!
96. Loeselia glandulosa Don.
97. Thevetia thevetioides (HBK) Schum.
98. Piper sp. This genus is too much for me.
99. Serjania mexicana Willd. Probably this species but fruit is needed to make certain.
100. Inga eriocarpa Benth.
101. Unrecognized member of the Acanthaceae. A very interesting species upon which I shall report later.
104. Salvia sp.
105. Salvia sp.
Plants of Guerrero, Mexico, collected by Mrs. Gordon Abbott
determined by I. M. Johnston 1937

172 comp.
173 Anoda hastata Cav.
174 Sida sp. Specimen too poor for naming.
175 comp.
176 Gomphalium chartaceum Green.
177 Salvia
178 Zygocarpha ciliata (Cav.)
179 Dodonaea viscosa Jack.
180 Tephrisia sp.? Yes a new species. Please get flowers.
181 Rhyynchostachys discolor Mart. & Gal.
182 Rhus schmidtiioides Hoch. var.
183 Bidens pulosa L.
184 Loeselia glandulosa Don.
185 Loeselia glandulosa Don.
186 Baccharis mucronata A.B.K.
187 comp
188 Smilax Frangulae Greene. (= no. 110)
189 Micadocia penetorum Naud. (= no. 118)
190 Gaultheria bivalvulensis Loesener.
191 "
192 Borago officinalis L.
193 Callisia martensiana Benth. Please collect again
194 Loeselia glandulosa Don
196 melastome, Flowers needed for identification
197 Monochaetum Frangulae Ploe
198 lab
199 Salvia
200 orchid
Abbott 2

201 orchid

202 Monia xalapensis HBK

lab.

204 Vernonia Alamanni DC. (= no #88!)

206

206 Oxalis diversipes Benth.

207 Oxalis humilata Zucc. Please collect again more generously.

208 Hypoxis sp. Mature fruit needed in this genus for identification.

209 Brachyandra Benthamiana Hook.

210 Solanum macrocephalum Dum.

211 Brachyandra Abbottii new species (cf. no. 315)

212 Mimosa sp. Fruit needed

213 Colphogania procumbens H. & B.

214 Indigofera sp. Interesting. Please collect larger plant and fruit.

215

216 Bonvardia multiflora (HBK.) Schult.

217 Euphorbia spheorepilga Benth. Would be glad to get more of this.

218 Baccharis pteronioides DC.

219 Calliandra portoricensis Day / Benth.

220 Dodonaea viscosa (Jag.

221 Sisyxingium tenuifolium H. & B.?

222 unrecognised. This is the male form of a unrecognised shrub. Please try to get the female plant with fruit.

223 Styxum RennerregenFreem.

224 orchid

225 Hypoxis sp. cf. no. 208

226 Calliandra portoricensis (Mull.) Standl

227 Acalypha longispicata Mull. Arg. Rare. Please collect with mature fruit

228 Acalypha oecopola Freem.

229 Acalypha liebmanniana Mull. Arg.

230 Acalypha oecopola Freem.

231 Solanum sp. Please collect more of this. Where and how does it grow?
Maurandia erubescens (Don. ey)

Viola napitana Robins? Please keep collecting vividly

Oxalis moretsensis Smith. Please recollect for underground parts.

Eudaceae. Very interesting. Please collect again for basal plant's more flowers. Also rip fruit.

Thalictrum grandiflorum Rose. Please watch this genus. Good specimens from Mexico are very desirable and much needed. How does the plant grow; are the plants "universals?"

Thalictrum grandiflorum Rose.

Echeandria macoepa sa Freemen. ( = no. 160, sub Aristolochiaceae)

Malvaceae. Fruit needed for identification in this family.

Bridium parvifolium (Bong.) Medd.

Lentana camara L.

Crotalaria sp. Please try to collect this with fruit.

Crotalaria enocarpa Benth.

Croton sp. Very interesting. Please collect with fruit.

Waltheria americana L.

Gomphrena duperiia Standley and colored form

Gomphrena duperiia Standley white form

Richardia bipinata L.

Tridax procumbens L.

Solanum sp. Very interesting. Please collect more of this and read same notes.

Evolvulus alasconides L.

orchid

Gonolobus pilosus Benth.

Desmodium sertoperulatum Sdal.
262 Comp
263 Heliotropium linariifolium Bentham
264 Boerhaavia
265 Bravoa geminirostris Hemsley. Please get more to show base of plant and nature of fruit.
266 Stenophyllum capillaceum (L.) Bentham
267 Ipomoea maccalata Cav.
268 Tridax coronopifolius Hemsl.
269
270 Hypericum sp. Specimen too poor for naming
271 Juncus macrocephalus H.B.K.
272 Desmodium angustifolium (H.B.K.) DC
273 Dahlia variabilis Desf.
274 Manihot angustiloba (Torr.) Muhl. Arg.
275 Tradescantia macrophylla Freyn. Please get this in fruiting state. A rare plant.
276 Nemia phyllis versicolor Schults. Very interesting plant!
277 Borreia versicolorata (L.) Mey.
278 Cuphea Wrightii Fray
279 Valeriana sorbifolia H.B.K.
280 Euphorbia splendens H.B.K.
281 Cabiadium crassum (L.) Don
282 Paspalum plicatulum Nash. Fine specimens must be generous in show box. 2
283 Desmodium orbiculare Holli
284 Kyllingia sp. Specimens of Kyllingia must be generous and have base.
285 Cuphea sp., perhaps C. heterophylla Bentham. Can you collect this again?
286 Dyschoriste angustata (Fray) Small. Please collect more of this.
287 Commelina
288 Commelina
289 Commelina
290 = 20.369
291 Galinsoga parviflora Cav
292 Paspalum dubium Hemsley. I would like seeds of this for the Bot Garden in Cuba.
293 Martynia annua L.
294 "Judgoa" sp. Very interesting. Please do get it with fruit.
295 Hybanthus Macrocarpus (Ktze.) Morton
296 Conyza spiciformis H.B.K.
297 "Nissolia diversa" DC
298 Cassia sp. Fruit needed and also leaves showing stipules.
299 Helminth calycifolia Link.
300 Comp. Atropappus Pistons (Greenm.) Blake
301 Comp.
302 Talinum patens Wild.
303 Cassia Comp. 26 "Cupa" Benth.
304 Comp. Melampodium missourium microcephalum L.? Please collect more of this plant.
305 Comp. Bunchonia Palmers Wats.
306 Zinnia paniculata L.
307 Cuphea sp. (Send report later) Very interesting. Would like to see more collected.
308 Comp. Chisocoma alba (L.) Hitchc.
309 Comp. Bouchea pumicata (Jarg.) Ktze.
310 Comp. Melampodium americanum L. (= no. 70)
311 Comp. Croton monilifolius H.B.K.
312 Aechmenes grandiflora DC. Please collect this again in abundance.
313 Comp. Melampodium chrysococcus (Rich.) DC.
314 Salvia
315 Urticaceae
316 Jussieu eugamticosa L.
317 Rubiaceae Dysochiste ovata (Cav.) Ktze.
318 Riella Rivina humilis L.
319 Euphorbiaceae: Peltophorum (O.M.) Karp.
320 Lantana aclyanthopholia Dean.
321 Comp. Sanvitalia procumbens Lam.
322 "Unrecognized. Please collect copious specimen with flowers and fruit.
323 Ipomoea diphoglypha "Greenm."
324 Satureja sp.? Fruit absolutely necessary for naming!

325 Euphorbia mutans Eng.

326 Nasturtium officinale DC

327 *Villanova pratensis* (H.B.K.) Benth.

328 Ipomoea sp. Very interesting. I can't place it. Please collect it again. A voucher as well as flowers. Some notes on habit of habitat would help. Is it cultivated?
Abbott - Mexico

329  Salvia
330  Iostephane heterophylla (Don) Bentham
331  Desmodium stipitatum Schlecht.
332  No specimen received
333  Tephrosia affinis Walp.
334  Pisoniocradium diversifolium Cav. & Rose? (see note under no. 244)
335  Passiflora suberosa L.
336  Guadichandria pentandra Jessup
337  Cuphea Kaalmanniana Rose.
338  Acacia felicioides (Cav.) Trel. No fruit but probably this:
339  Fuchsia thyrsifolia H. B. K.
340  Calva Zexmania hebanthoides Gray
341  comp -
342  comp.
343  Bidens Cosmos scabiosoides H. B. K.
344  Euphorbia Liformis Walp.
345  Metastelma angustifolium Fory. Please get more of this.
346  Pavangopappus summerlens Dec.
347  unrecognizd. Can't place this even as to family. Please collect this in
348  fruit. Is it a vine or tree? Are a good deal of material
349  Oporro Expert. Piqueria trenceoria Cav.
349  Ipomoea sp. Please collect again for more flowers and mature fruit. Initials.
350  Salvia
351  Pygmaea Abbottiana Jtn.
352  Marandia Barcelayanana Lindl.
353  Senecio
354  Gymnadenia scapigera. Is this a true or large plant? Doesn't have a bulb.
355  Ageratum salicifolium Amurel.
356  Heterogermium punctatum Cav.
357  Tagetes micrantha Cav.
358  Solanum macrantherum Dunal
359  Milleria guingangflora L.
Abbott Mexico

360  *Sesuvium* repandum (Mill.) Robert
361  Stevia canesens HBK.
362  *Sanicula* Florestita pedata Cav.
363  *Dodonaea sp.?* Please try to get fruit.
364  *Calochortus Poggei* Rosin.
365  Geisa Zeximnesia sp. Very interesting! Please collect again for mature fruit, and male as well as female flowers. Is it common?
366  Geisa Citogappus Poggei (Greene) Blake.
367  Crotalaria hypogaea HBK.
368  Lobelia Caritas sp.? Very interesting; please collect fruit.
369  Quamondit coccinea (L.) Moench.
370  Ipomoea hurutula Jacq.
371  Salvia pilosa HBK.
372  Bidens pilosa HBK.
373  Acalypha mollis HBK? Too young.
374  Cassia pilifera Vogel Rare Collect in fruit please.
375  Commel Tradescantia diiic simple leaf. Please collect more of this.
376  Desmodium lineariplicata DC.
377  Bidens Cosmos sulphureus Cav.
378  Ipomoea sp. Very interesting. Please make copious collection, well flowers, fruit.
379  Euphorbia dentata Michx.
380  Phaseolus sp. The specimens of this difficult genus must be copious and have fruit, frond, flowers, and root.
381  Phaseolus sp.
382  Seroph Cautiliya Tenuefolia Mar. & Jel.
383  Ageratum Houstonianum Miller.
384  Ageratum
385  Ageratum
386  Polygala gladiata HBK.
387  *Sclarea.* I can't place this plant. Please tell me everything about it. Does it have a bulb? How high does it grow? Is it a large plant?
388  Geisa Zeximnesia coccinea Gray.
389  Cassia *stenocarpa* Vogel.
Abbott - Mexico

390 Dalea sp. Specimen fragmentary.
391 Quamoclit Specimen purga Hayne
392 Tagetes subulata (var.) var.
393 copies Glauconia platyphylla Zucc. Please collect more of this.
394 Bevia elegans Schultes
395 orchid
396 Bidens Dahlia variabilis Day
397 Tagetes lucida Cav.
398 Calce atricifolia (Mill.) DX.
399 Ofm. Otopappus Pringlei (Green.) Blake
400 Desmodium macrophyllum Cass.

Orchids have been reported by Prof. Ames. Compositae will be reported later. They are being examined by specialists.
Plants of Guerrero, Mexico, received from Mrs. Gordon Abbott, Dec. 1937
determined by I. M. Johnston

401  Semeia lagascaeriformis DC.
403  Schoecarpus uniseriatis (Hook.) Brit. & Vat.
404  Tachyphyllus angulatus Rich.
405  Poltita canthus calciculatus (DC.) Don.
406  Heliotropium indicum L.
407  Sceletium sp.?  no fruit.
408  Pyrochroa tagetiflora Lag.
409  Cissus rhombifolia Halli.
410  Cardiospermum halicacabum L.
411  Dalea sp. (= Parasela Holwayi Rose)
412  Polysca Albouriana Chadat
413  Euphorbia dioecroicodes Bocas.
414  Melampodum
415  comp
416  Zizyphus crocea Froel.
417  Cassia Nelsoni Rose  rare - try to get better specimens.
418  Solanum grayi Rose
419  Zinnia caerulea Fourn.  rare and very interesting!
420  Melochia pyramidalis L.
421  Ipomoea pedatisecta Mart. & Gal.
422  Tecomaria Kallstroemia grandiflora Tower.
423  Boronia Caeviis (Ramm.) Grisch.
424  Florestina pedata Cav.
425  Comphrena mutida Roth.
426  Chitraria aquanosa (Jacq.) Lindau - Acanthaceae
427  Dalea sp. (= Parasela epidermiiformis Rose) - rare
428  Tribus cosmomophila Hemsl.
429  Priva Lappulacea (L.) Pers.
430  Euphorbia Lasiocarpa Klotzsch.
Gyranthera sp. - Rooting material needed.

Heliotropium procumbens Miller

Euphorbia dentata Michx.? - Seeds needed for certain identification

Cassia aethiopoides Lam.

Convulvus operculina rubicunda Horse

Euphorbia heterophylla L.

Arctium: corolla Rachimenes 6th and leaves Urticaceae

Roptosodia tagetiflora Tag.

Melampodium

Montana subtruncata Gray? - No fruit.

Acacia sp. Interesting. Can you get more of this?

Euphorbia colorata Engelm.

Dahlia perhaps D. tennes (Better specimen needed as well as notes on size, shape, underground parts of living plant."

Clematis grossa Benth.

comp

Malloria quinqueflora L.

Schizanthus visagei DC.

Hymenocallis (sent to specialist)

Phytolacca octandra L.

Canavalia vellosa Benth. - get fruit

Stevia sp.

Convolvulus Iponoea parasitica (Hook.) Don? - Collect more flowers.

Convolvulus Iponoea sp. Is this a vine or tree? Please collect again.

Zizania crocea Gym.

Ottopogon Fring. (Green.) Blahu

Hymenostilbium

456bis Quamoclit lobata (Cav.) Horse

Dales nigra Mart. ex. Gal. (=No. 390)

Dales eroides Benth.

Limosola albida Humb. & Bonpl.

Phaseolus amosciatus Schelle

Desmodium Fringl. Wats.
Desmodium nicaraguense C. A. Rich.
Ereside Celosia L.
Acalypha sp. Very interesting plant. Please try to collect with fruit.
Euphorbia graminifolia Jacq.
Desmodium macrostachyum Hemsl.
Aeschynomene americana L.
Abelia?
Echinocarpus fringifer Rose? Fruiting material needed.
Rouliniella rigida Benth.
Dioscorea remotiflora Knuth &
Bousingsaultia ramosa Hemsl.
Mandevilla foliosa (Muell. Arg.) Hemsl.
Buddleia versicolor A. Rich.
Euphorbia geniculata Asteg.
Salvia (sent to specialist?)
Granovia longiflora Rose - rare and very interesting.
Dioscorea remotiflora Knuth &
Chicococca alba (L.) Hitchc.
Phytolaccas sp. octandra L.
Zexmenia
Rhysochilus Lag.
Brickellia sp.
Loeselia punica (Mart. & Z.) Walp.
Verbena, apparently a new species; mature fruit needed.
Phaseolus sp. (fruit needed)
Tournefortia pubescens Benth.
Tithonia tubaeformis Cass.
Montana grandiflora (DC.) S. F. Ho.
Dicytreta Polmplei Green.
comp
Lymantria
dcomp. Phyllocladus
Abbott m4

434 comp
435 Verbena greenmanii Urban
436 Boryplandia geminata Cav.
437 Tephrosia vicioides (Schl.) Kuntze
438 Vernonia capreaphala (Sch. Bip.) Gleason
439 Eupatorium odoratum L.
450 comp 500
451 #Samouropouia versicolor (HBK)
452 Hyptis (sent to specialist)
453 Castilleja sp. please make a generous collection of this.
454 Lagoscea rigidata (Cav.)
455 Breckellia glomerata Zorn
456 scenth. Need place this now. Will report later
457 Tetramerium hispidum Nees
458 Ipomoea elongata Choisy (= no. 349)
459 Cuphea sp. very interesting; please try to get more of this.
460 Euphorbia graminea Jacq.

No 307 Cuphea ternipes Baciq.
366 Albocarpus. New material of this plant
101 Please \\ get more of this very interesting plant.
101A Henega scorpionid Nees.
328 Ipomoea suffulta HBK
379 Ipomoea sp. Can't work with the supplementary sending, seeds, this still eludes me. Please make more/collecs of it.
248 Gostibera vitellina vitellina Kes.