

Jan.13, 1940

Dear Dr. Shreve,

I enclose my list for your 1939 collections and my carbon (which please return) of the list of White plants. This has been a very nice lot of plants to study and really I have gotten a lot out of it. It is great fun to work on the region. I have so many of the types and duplicates of types available that I really feel that I can clean up the taxonomy. I am certain that no other place could be half so good as the Gray Herbarium, as a place at which to write an account of the Chihuahuan Desert. I am more and more impressed by the fact that the valleys in which Monclova and Saltillo are placed do not belong to our area. The flora in these places ~~is~~ is that of Nuevo Leon and Tamaulipas. I'll bet there are over 500 species known only in the valley near M. and S. and not known nor to be expected in our area, otherwise. We should plan to draw our boundary from Carneros Pass along the crests west of Saltillo and along the hills west of Monclova. Many of the plants of the dry lower bahadas about Saltillo we will find are included in our list since they are known from the hills about Carneros and south of Parras, as well as in the range of hills west of the valley. I am certain only of this eastern limit for our region. The southern limit is very important for my work. Please do give me a boundary. How about arbitrarily deciding on the Tropic of Cancer. That would shut out much of the Valle Salado but it would save us deciding whether or no the dry saline plains east of SLP. should be included. You have been down the whole length of our western limit. Can't you give me a boundary there? You have not written me anything about the character of the desert in southern Durango.

With these lists finished, I must now write up the new species,

and then clean up the accumulation of borage-packages on my table. After that, about Feb 1st, I shall be again working on the Goodspeed So. American collections. About April I will be back on the Desert problem and plug away on it until we leave for the field. I shall be with you this coming summer, you may count on that!

With best regards,

Mexican plants collected in 1939 by Forrest Shreve
determined at the Gray Herbarium by I.M. Johnston
(all specimens deposited in the Gray Herbarium)

File with
Plant Lists

FERNS (det. by C.A. Weatherby)

- 9041 *Selaginella*
- 9112 *Cheilanthes leucopoda* Link
- 9113 *Notholaena Greggii* (Mett.) Maxon
- 9184 *Cheilanthes Kaulfussii* Kze.
- 9187 *Cheilanthes* sp. (aff. *Ch. microphylla*)
- 9190 *Notholaena aurea* (Poir) Desv. (*N. bonariensis*)
- 9260 *Cheilanthes Kaulfussii* Kze.
- 9301 *Cheilanthes myriophylla* Desv.

CYPERACEAE

- 9198 *Eleocharis arenicola* Torr.

Commelinaceae

- 9154 *Commelina scabra* Benth.
- 9170 " "

LILIACEAE

- 9183 *Calochortus barbatus* (HBK.) Painter
- 9328 *Asphodelus fistulosus* L. (*Glyphosperma Palmeri*)
- 9130 *Anthericum leptophyllum* (Benth.) Baker
- 9149 *Anthericum*
- 9053 *Allium scaposum* Kunth

AMARYLLID.

- 7431 *Cooperia Drummondii* Herb.

IRIDACEAE

- 9208 *Sisyrinchium tenuifolium* H.&B.

LORANTHACEAE

- 9288 *Phorodendron* cf. *forestierae* Rob. & Greenm.

CHENOPODIACEAE

- 9219 *Atriplex muricata* H.&B.
- 9351 *Atriplex obovata* Moq.
- 9121 *Atriplex canescens* (Pursh) Nutt.

AMARANTHACEAE

- 9168 *Gnaphalium decumbens* Jacq.
- 9033 *Amaranthus Torreyi* (Gray) Benth.
- 8828 *Amaranthus crassipes* Schlecht. (equals J. 7076)

NYCTAGINAC.

- 9125 *Mireobilis aggregata* Cav.
- 9135 *Boerhaavia anisophylla* Torr.

PORTULAC.

- 9234 *Talinopsis frutescens* Gray

PHYTOLAC.

- 9306 *Phytolacca octandra* L.

CARYOPHYLLAC.

- 9205 *Drymaria arenarioides* Willd.
- 9302 *Drymaria gracilis* C.&S.
- 9039 *Drymaria villosa* Schlecht.
- 9209 *Cordia*

RANULACEAE

- 9145 *Clematis Drummondii* T. & G.
- 9050 *Thalictrum pinnatum* Wats.

PAPAVERAC.

- 9346 *Hunnemannia fumariaefolia* Sweet

CRUCIFERAE (det. by R.C. Rollins)

- 9133 *Lesquerella Schaffneri* Wats.
- 9324 *Lesquerella argyrea* (Gray) Wats.
- 9384 *Lesquerella Fendleri* (Gray) Wats.
- 9032 *Lepidium montanum* Nutt. var. *alyssoides* (Gray) Jones
- 9037 *Nerisyrenia camporum* (Gray) Greene
- 9173 *Erysimum arkansanum* Nutt.

REDUAC.

9200 *Reseda luteola* L.

Capparidac.

9114 *Setchellanthus caeruleus* Brandg.9321 *Cleomella longipes* Torr.

KRAMERIAC.

9382 *Krameria Grayi* Rose & Painter

ROSACEAE

9375 *Lindleya mespiloides* HBK.

9387 "

LEGUMINAE

9141 *Prosopis dulcis* Kunth9140 *Mimosa zygophylla* Benth.9077 *Mimosa monanctistra* Benth. var.9139 *Mimosa biuncifera* Benth.

9388 "

9166 *Desmanthus pumilus* (Schl.) Macbr.9366 *Acacia constricta* Benth.9076 *Acacia* mixtureA. *vernica* Standl. fruiting branchA. *constricta* Benth. flowering branch9120 *Acacia Berlandieri* Benth.9362 *Acacia glandulifera* Wats.9381 *Cassia bauhinioides* Gray9146 *Cassia Vogelliana* Schleg.9417 *Caesalpinia sessilifolia* Wats.9096 *Hoffmannseggia multifuga* Wats.9132 *Hoffmannseggia canescens* Fischer9048 *Nissolia Wislizeni* Gray9109 *Cassia durangensis* Rose9180b *Trifolium gonocarpum* Lojaccono9043 *Phaseolus Metcalfii* Woot. & Standl.9393 *Astragalus*9445 *Tephrosia Lindheimeri* Gray9300 *Tephrosia littoralis* (L.) Pers.9176 *Phaseolus heterophyllus* Willd.8878 *Tephrosia tenella* Gray9058 *Eysenhardtia spinosa* Engelm.9269 *Eysenhardtia texana* Scheele

9325 "

9110 "

8801 *Brongniartia* sp. flowers needed9369 *Sophora secundiflora* (Ort.) Lag.9234 *Dalea tuberculata* Lag.

9340 "

9343 *Dalea* aff. *D. lutea* Cav.8640 *Dalea leptorhiza* (Aiton)9386 *Dalea capitata* Wats. (includes *D. Lloydii* Rydb)9061 *Dalea nana* (Torr.) Heller9036 *Dalea scoparia* Gray

OXALIDACEAE

9174 *Oxalis albicans* HBK.

ZYGOPHYLLAC.

9389 *Larrea divaricata* Cav. forma9418 *Sericodes Greggii* Gray9383 *Peganum mexicanum* Gray8874 *Kallstroemia*

BURSERACEAE

9291 *Bursera fagaroides* (HBK.) Engler

MALPIGHIACEAE

9192 *Aspicarpa Hartwegiana* Juss.

POLYGALAC.

- 9202 Polygala macrodenia Gray
 9180a Polygala alba Nutt. var. tenuifolia (Pursh) Blake

EUPHORBIACEAE

- 9419 Jatropha spathulata Mull.Arg.
 9104 Cnodoscolus new sp.
 9263 Croton
 9455 Croton
 9081 Croton
 9116 Croton
 9447 Euphorbia
 9142 Euphorbia
 8678 Acalypha phleoides Cav.
 9196 Acalypha phleoides Cav. var. hirta (Cav.) Mull.Arg.
 9136 Acalypha hederacea Torr.
 9107 Acalypha apparently new

RUTACEAE

- 9349 Ptelea trifoliata L. var.

ANACARDIACEAE

- 9373 Rhus Andrieuxii Engelm.

SAPINDAC.

- 9105 Cardiospermum

RHAMNACEAE

- 9331 Karwinskia mollis Schl.
 9126 Colubrina macrocarpa (Cav.) vel valde aff.
 9103 Colubrina glabra Wats. Seems same as Sonoran and B. Cal. plant.

CELASTRACEAE

- 9326 Acanthothamnus aphyllus (Schl.) Standl
 9372 Mortonia Palmeri Hemsl.

MALVACEAE

- 8869 Anoda Thurberi Gray
 9164 Anoda
 9065 Sida procumbens Sw.
 9064 Abutilon crispum Don
 9423 Abutilon malacum Wats.
 9111 Abutilon ?
 9165 Sphaeralcea angustifolia

LOASACEAE

- 9454 Mentzelia oligosperma Nutt.

LYTHRACEAE

- 9240 Cuphea

ONAGRACEAE

- 9248a Jussiaea repens L.
 9148 Gaura coccinea Nutt.

UMBELLIFERAE

- 9153 Eryngium Wrightii Gray

LOGANIACEAE

- 9261 Buddleia tomentella Standley

OLEACEAE

- 9382a Fraxinus Greggii Gray
 9134 Menodora scabra (Engelm.) Gray
 9364 Menodora Coulteri Gray
 9394 "

ASCLEPIADACEAE

- 9312 Metastelma
 9085 Funastrum lineare (Decne) Macbr.
 9049 Asclepias setosa Benth.

CONVOLVULAC.

- 9323 Cuscuta
 9169 Ipomoea longifolia Benth.
 9060 Ipomoea petrophila House
 9206 Ipomoea muricata Cav. (I. patens House)

CONVOLV.-cont Shreve 4

9051 *Evolvulus rotundifolius* (Wats.) Hall.f.

9210 *Evolvulus alsinoides* L.

HYDROPHYLL.

9046 *Nema undulatum* HBK.

BORAGINACEAE

9416 *Heliotropium Greggii* Torr.

9412 "

9117 " " (corollas very large)

9115 *Heliotropium glaberrimum* (Torr.) Gray

9034 *Heliotropium convolvulaceum* Gray typicum

9424 *Heliotropium angustifolium* Torr.

9150 *Cryptantha albida* (HBK.) Jtn.

9411 *Gordia Greggii* Torr.

9118 "

VERBENACEAE

Lippia lycioides Steud. ("ligustrina" is based on a Verbena!) 9123

9400 *Lippia Berlandieri* Schauer

9274 *Lantana involucrata* L.

9072 *Lantana macrocarpa* Torr.

9199 *Verbena gracilis* Desf.

9344 *Verbena canescens* HBK.

9097 "

9147 *Verbena tenuifolia* M.&G.

7179 *Priva rhinanthifolia* (M.&G.) Robins.

9138 *Priva aspera* HBK.

9093 *Bouchea prismatica* var. *brevirostra* Grenzb.

9162 "

8590 *Citharexylum brachyanthum* Gray

9203 "

9122 *Citharexylum* n. sp.

LABIATEAE

9167 *Salvia hirsuta* Jacq.

9193 *Salvia axillaris* Moc.&Sess.

9068 *Tetralcea Coulteri* Gray

9404 *Teucrium cubense* L. var.

SOLANACEAE

9433 *Lycium Berlandieri* Dunal

9108 *Solanum rostratum* Dunal

SCROPHULARIAC.

9276 *Bacopa Monnieri* (L.) Wettst.

9339 *Lamoureauxia tenuifolia* M.&G.

9175 *Castilleja mexicana* Gray

9197 *Castilleja Palmeri* Eastw.

9124 *Leucophyllum laevigatum* Standl.

9101 *Leucophyllum virescens* n. sp.

ACANTHACEAE

9128 *Ruellia nudiflora* (E. & G.) Urban

9399 *Dyschoriste linearis* (T. & G.) Kuntze

9178 *Dyschoriste decumbens* (Gray) Ktze

9310 *Anisacanthus quadrifidus* (Vahl.) Standl.

8381 *Siphonoglossa pilosella* Torr.

PLANTAGINACEAE

8672 *Plantago mexicana* Link

9172 "

RUBIACEAE

9102 *Randia Pringlei* Gray

9129 *Houstonia rubra* Cav.

9316 *Bouvardia ternifolia* (Cav.) Schl.

8796 *Crusea subulata* Gray

9207 *Crusea triccoca* (T. & G.) Heller

9272 unrecognized fruiting shrub

9408 *Pectis Pringlei* Fern.

COMPS. cont

SHREVE 6

- 9078 *Zexmenia brevifolia* Gray
 9422 " "
 9363 " "
 9377 *Viguiera Greggii* (Gray) Blake
 8710 *Viguiera dentata* (Cav.) Spreng.
 9413a *Viguiera stenoloba* Blake
 9336 " "
 8779 " " forma
 9267 *Verbesina serrata* Cav.
 9352 *Flourensia cernua* DC.
 9313a " "
 9180 *Flourensia dentata* Blake
 9378 *Zinnia juniperifolia* Gray
 9355 *Zinnia acerosa* (DC.) Gray
 8871 *Simsia amplexicaulis* (Cav.) Pers.
 9421 *Helianthus ciliaris* DC.
 9172 *Zaluzania globosa* Sch.Bip. var. *myriophylla* (Sch.Bip.) Sharp
 9315 *Zaluzania Robinsonii* Sharp
 9385 *Zaluzania mollissima* Gray
 9322 *Ratibida columnaris* (Sims) Don
 9353 *Dicranocarpus parviflorus* Gray
 9100 *Parthenium hysterophorus* L.
 9293 *Perymenium parvifolium* Gray
 9185 " "
 9257 *Montanoa purpurascens* Rob. & Greenm.
 9278 *Malampodium perfoliatum* HBK.
 9432 *Malampodium ramosissimum* DC. topotype
 9155 *Berlandiera lyrata* Benth.
 8899 *Heterospermum pinnatum* Cav.
 9233 " "
 9182 *Dahlia coccinea* Cav.
 9297 *Bidens aurea* (Aiton) Sherff
 9152 *Lygodesmia ramosissima* Greenm.
 9395 *Pinaropappus roseus* Less.
 9311 *Trixis angustifolia* DC.
 9264 " "
 9382a *Gochnatia hypoleuca* (DC.) Gray
 8662 *Perezia Parryi* Gray
 9361 " "

Dalea tuberculata Sept. 1, 39, 11 mi. E. of La Punta
 no number on label of the above cited collection.

Dodonaea viscosa Jacq.

Helmsia salicifolia (HBK.) Link Lythraceae (fl. yellow)
 No label received with two above

293 numbers



Look for the sign of the Red Triangle
Official Road Map
Carta Oficial de Carreteras
MEXICO
REPUBLICA MEXICANA

SCALE OF MILES
0 25 50 100 125
ESCALA EN KILOMETROS
0 25 50 100 125

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Legend

IN MEXICO, GUATEMALA, HONDURAS,
EL SALVADOR AND BRITISH HONDURAS.
THE NATIONAL HIGHWAYS ARE SHOWN IN RED.

- Paved: Macadam, Surface Treated.
 - Improved: Dependable in all weather.
 - Slightly Graded: Improvable in rainy weather.
 - Poor Dirt Road.
 - Under construction or under study. Make local inquiry.
 - Dependable Trail.
 - 125. Approximate mileage distances between stars appear in RED.
 - 201. Green figures indicate approximate kilometers.
 - Kinship distances are shown ALONG ROADS are from Mexico City.
- IN THE UNITED STATES**
MAIN THROUGH ROUTES ARE SHOWN IN RED.
- Paved: Asphalt, Brick, Concrete, Macadam, Surface Treated.
 - Improved: Gravel, Stone, Shell, Topsoil-Sand.
 - Graded and Drained Earth Road.
 - Dirt Road.
 - Scheduled for construction.
 - 2. State highway numbers are shown in circles ON ROADS.
 - 97. U.S. Highway numbers are shown in circles ON ROADS.
 - 97. Approximate mileage distances between stars appear in RED ALONG TO ROADS.

Populations of Cities and Towns 1930 Census. Poblacion de Ciudades, etc., segun Censo de 1930.

- 0 to 2,500
- 2,500 to 5,000
- 5,000 to 10,000
- 10,000 to 25,000
- 25,000 to 50,000
- 50,000 to 100,000
- 100,000 to 500,000
- Over 500,000

State Capital, Capital de Estado National Capital, Capital Nacional

Port of Entry, Puerto de Migracion

Explicación

EN MEXICO, GUATEMALA, HONDURAS,
EL SALVADOR Y BELICE.
LA RED DE CARRETERAS NACIONALES APARECE EN ROJO.

- Pavimentado: Perfectamente transitable.
 - Mejorada: Transitable en todo tiempo.
 - Macadamizada: Transitable usualmente en tiempo seco.
 - En malas condiciones.
 - En construcción o en estudio. Informarse en la localidad.
 - Caminos de herradura fácilmente recorribles.
 - 125. Los números rojos representan la distancia. EN MILLAS entre dos ciudades importantes marcadas con estrellas.
 - 201. Los números verdes indican KILOMETROS aproximados.
 - Las distancias kilométricas en los caminos comunes van a la Ciudad de México.
- EN LOS ESTADOS UNIDOS.**
LAS RUTAS DIRECTAS APARECEN EN ROJO.
- Pavimentado: Asfalto, Lavado, Concreto, Macadam, Petrolizado.
 - Mejorada: Grava, Piedra, Cáscara, Topsoil.
 - Terraplenado y drenado: Transitable usualmente en tiempo seco.
 - En malas condiciones.
 - Proyecto de construcción para 1932. Informarse en la localidad.
 - Los números de las Carreteras Nacionales se encuentran dentro de un círculo EN LOS CAMINOS COMUNES.
 - 97. Los números rojos representan la distancia. EN MILLAS, entre dos lugares marcados con estrellas.
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State Capital, Capital de Estado National Capital, Capital Nacional

Port of Entry, Puerto de Migracion

Gulf of Mexico

Gulf of Campeche

Gulf of Tehuantepec

- 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

Route 1700
1939



Shreve, Forrest and Johnston, I. M. 1939. "Mexican Plants Collected in 1939."
Plant lists, Mexico

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