

816-East 2nd Street
Tucson, Arizona
Nov.3,1940

Dr. I.M.Johnston,
Arnold Arboretum,
Jamaica Plains,
Massachusetts.

Dear Dr. Johnston:

Dr. Shreve read your letter to me some time ago and I am very happy to hear that you found such a Bonanza of plants in northwestern Coahuila, despite the other misfortunes that befell your party.

I suppose you have heard about our trip through Dr. Shreve. I can assure you it was about as interesting and varied a trip as I have ever made, and I have been in southwest China, Formosa and the southwestern deserts on several trips of my own. I don't believe Dr. Shreve will take the Buick '37 on such a trip again. We could have made much better progress in his 1925 Willys-Knight. By rights one ought to have a car with a foot and one-half clearance and then you could go almost anywhere.

I have prepared a sketch map showing our trip and an itinerary that may be useful to you.

Concerning the plants that Dr. Shreve sent off last week to you and which you are probably just beginning to examine I wish to say that I believe the customary 15 cents per plant for Mexican plant material is a reasonable price for material as selective and rare as I trust you will find this lot to be.

As I am unemployed at present and pretty low in cash I shall anxiously await your reply.

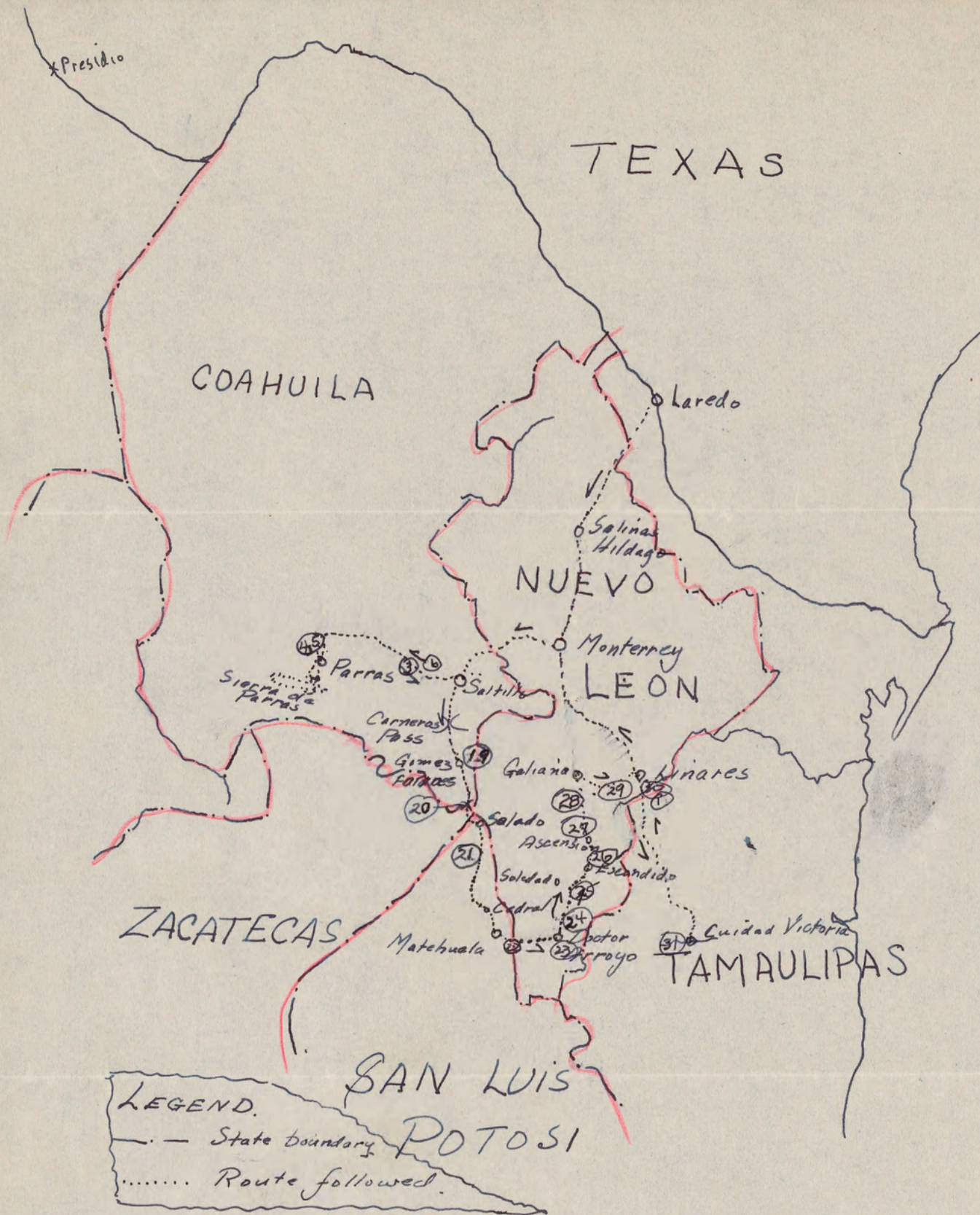
Give my best regards to my good friend Dr. Metcalf.

Yours very sincerely,

Ernest R. Tinkham

Ernest R. Tinkham

*File
under Forest Shreve*



Map Showing Route Taken by Shreve-Tinkham
 Expedition to Northeastern Mexico in August 12-
 Sept 15, 1940.

Itinerary^{ar} of the Shreve-Tinkham Expedition to Northeastern
Mexico, August 12 to September 15, 1940

August 12-left Tucson, Arizona

August 13- left El Paso Texas

August 14- left Alpine, Texas

August 15- left Eagle Pass, Texas

August 16- left Laredo, Texas

August 17-left Monterrey, Nuevo Leon, Mexico arrived Saltillo.

August 18- in Saltillo

August 19- left Saltillo, camped half mile south Gomez F^{ri}as

August 20- left Gomez F^{ri}as, camped Coahuila-Zacatecas boundary

August 21- left boundary and camped about 5 miles south of Salado

August 22- left Salado and camped about 9 miles east of Matehuala

August 23- left Matehuala and camped mile south of Doctor Arroyo

August 24- left Dr. Arroyo camp and camped 6 miles north Doctor Arroyo just west of Peña Nevada.

August 25 - Left Peña Nevada camp and camped about 16 miles north of Doctor Arroyo and about 8 miles south of Soledad

August 26- left camp and camped 4 miles north of Escondida, N. Leon

August 27- left Escondida camp and camped 4 miles northwest Ascension at 6800 feet

August 28- Left Ascension camp and made camp about 5 miles north west of Rancho Pabillo and some 13 miles from Galiana south

August 29- left camp and stopped for the night in Galiana canyon about four miles down canyon from Iturbide

August 30- left canyon camp and spent night in Canada Courts, Linares

August 31- left Linares and made camp in canyon three miles west of Ciudad Victoria

Sept. 1--- left Victoria camp and spent night in Canada Courts, Linares

Sept. 2---- left Linares and made Huizache Courts, Saltillo

Sept. 3----left Saltillo and camped on desert 44 miles NW. Saltillo

Sept. 4---- left desert camp and made camp 6 miles north of Parras

Sept. 5---- went to the Sierra de Parras, camp the same

Sept. 6---- left Parras camp and camped at road junction 36 Mi. NW. Saltillo

Sept. 7-----arr. Saltillo Sept 8. in Saltillo

Sept. 8 ---- left Saltillo stayed in California Courts, Monterrey.

Sept. 10 ----left Monte rrey and made Laredo.

Sept. 11 --- left Laredo and camped Nueces River some 30 miles NW.

Uvalde, Tex. Sept. 12 camped Ozona, Tex., Sept 13 camped north end Davis Mts., Sept. 14 in El Paso, Sept. 15 arr. Tucson.

MEXICAN plants collected by Shreve & Tinkham in 1940
determined at the Gray Herbarium by I.M. Johnston Jan. 1942

GNETACEAE

9588 *Ephedra aspera* Engelm.

9655 " "

MONOCOT Misc.

9605 *Agave falcata* Engelm

9652 *Nolina* no fl. nor fruit, leaves only *Dasylirion longissimum* L.

9662 *Tillandsia recurvata* L.

9825 *Tradescantia*

9574 *Anthericum stenocarpum* Baker

9723 " "

9668 *Asphodelus fistulosus* L.

9739 *Spiranthes cinnabarina* Ll. & Lex.

9871 " "

9704 palm leaf only

9685 " " "

GRAMINAE det by Swallen

9608 *Aristida pansa* Woot. & Standl.

9734a " "

9593 " "

9839 *Aristida adscencionis* L.

9576 *Stipa eminens* Cav.

9893 *Heteropogon contortus* (L.) Beauv.

9582 " "

9717 *Sorghastrum nutans* (L.) Nash

9777 *Beauteloua filiformis* (Fourn.) Griff.

9751 *Scleropogon brevifolius* Phil.

9739 *Sitanion hystrix* (Nutt.) Smith

9838 *Pappophorum Wrightii* Wats.

9834 *Pappophorum bicolor* Fourn.

9904 " " "

9905 *Hilaria mutica* (Buckl.) Benth.

9743 *Triodia avenacea* HBK.

9735 *Lycurus phleoides* HBK.

9715 *Andropogon saccharoides* Sw.

9829 *Trichachne insularis* (L.) Nees

9899 *Trichachne californica* (Benth.) Chase

9607 *Muhlenbergia villiflora* Hitchc.

9749 " "

9719 *Muhlenbergia dubia* Fourn.

9654 *Muhlenbergia rigida* (HBK.) Kunth

9651 " "

9591 *Muhlenbergia* sp. perhaps new, but very near *M. monticola* Buckl.

9623 *Sporobolus poiretii* (R. & S.) Hitchc.

9821 *Panicum Hallii* Vasey

9897 " "

9820 *Triodea mutica* (Torr.) Scribn.

9891 " "

9824 *Triodea grandiflora* Vasey

9575 " "

9826 *Bouteloua breviseta* Vasey

9837 *Bouteloua barbata* Lag.

9653 *Bouteloua uniflora* Vasey

9592 *Bouteloua curtipendula* (Muhl.) Torr.

FAGACEAE det C.H. Muller

9702 *Quercus Canbyi* Trel.

9793 *Quercus polymorpha* C. & S.

9734 *Quercus cordifolia* Trel.

9675 *Quercus intricata* Trel.

9876 " "

Marked Jan 19, 1942

FAGAC.-cont.

- 9888 *Quercus intricata* Trel.
 9686 *Quercus Tinkhami* Muller n. sp.

POLYGONACEAE

- 9738 *Eriogonum undulatum* Benth.
 9906 *Eriogonum rotundifolium* Benth.
 S.9561 *Eriogonum Abertianum* Torr.
 9789 *Polygonum*

AMARANTACEAE

- 9832 *Froelichia gracilis* (Hook.) Moq.
 9635 *Alternanthera repens* (L.) Kuntze

NYCTAGINACEAE

- 9671 *Boerhaavia anisophylla* Torr.
 9894 *Anulocaulis eriosolenus* (Gray) Standley
 9900 *Selinocarpus angustifolius* Torr. var.

CAROPHYLLACEAE

- 9601 *Paronychia albomarginata* Core
 S. 8669 *Scropulliphila Parryi* (Hemsl.) Jtn.
 S.8674 *Cordia glauca* Hemsl.

CRUCIFERAE det Rollins

- 9637 *Lesquerella argyrea* (Gray) Wats.
 9597 *Lesquerella Fendleri* (Gray) Wats.
 9887 " "
 9624 *Lepidium montanum* Nutt. bar. *allyssoides* (Gray) Jones
 9886 *Streptanthus stenophyllus* Rollins, n. sp.
 9640 *Nerisyrenia Castillonii* Tollins?
 9748 " "
 9583 *Nerisyrenia camporum* (Gray) Greene
 9660 *Eruca sativa* (L.) Gars.
 9746 *Synthlipsis Greggii* Gray
 9642 *Asta Schaffneri* (Wats.) Schulz

PAPAVERACEAE

- 9708 *Hunnemannia fumariaefolia* Sweet

CAPPARIDACEAE

- 9657 *Koeberlinia spinosa* Zucc.

PLATANACEAE

- 9794 *Platanus mexicana* Motie.

CRASSULACEAE

- 9691 *Echevaria Schaffneri* (Wats.) Rose?
 9698 " "
 9672 " "

ROSACEAE

- 9859 *Lindleya mespiloides* HBK.
 9865 *Cowania plicata* Don.
 9867 *Cercocarpus breviflorus* Gray

LEGUMINOSAE

- 9780 *Desmodium psilophyllum* Schlecht. det Schubert
 9780 *Desmodium neomexicanum* Gray "
 9869 *Dalea eriophylla* Wats.
 9737 *Dalea* sterile but evidently related to the above sp. and
 certainly undescribed.
 S.9935 *Dalea lasianthera* Gray
 9603 *Dalea pogonanthra* Gray
 9689 *Dalea Shrevei* Jtn. n. sp.
 9732 " "
 9763 " " type
 9726 *Dalea* aff. *D. Hemsleyana*, apparently n. sp.
 9714 *Cologania*
 9811a *Eysenhardtia polystachya* (Ort.) Sarg.
 S.9922 *Indigofera Lindheimeriana* Scheele
 9721 *Indigofera ornithopodioides* C. & S.

LEGUMINOSAE-cont

- 9700 *Cercis canadensis* L.
 9687 *Sophora secundiflora* (Ort.) Lag.
 9761 *Prosopis dulcis* Kunth.
 9661 " "
 S. 9947 *Prosopis glandulosa* Torr.
 9823 *Calliandra eriophylla* Benth.
 9801 *Pithecellobium flexicaule* (Benth.) Coulter
 9798 *Pithecellobium brevifolium* Benth.
 9810 " "
 9568 " "
 9858 *Acacia glandulifera* Wats.
 9854 *Acacia Farnesiana* (L.) Willd.
 9807 *Mimosa monancestra* Benth.
 9884 *Cassia demissa* Rose very hairy form.
 9745 *Cassia bauhinioides* Gray
 9769 *Cassia Lindheimeriana* Scheele
 9818 *Cassia Greggii* Gray
 9566 " "
 9603a *Cassia Painteri* (Britt.
 9673 " "
 9811 *Caesalpinia mexicana* Gray
 9901 *Hoffmannseggia densiflora* Benth.
 9600 *Hoffmannseggia canescens* Fisher

KRAMERIACEAE

- 9812 *Krameria ramosissima* (Gray) Wats.

OXALIDACEAE

- 9781 *Oxalis albicans* HBK.

LINACEAE

- 9577 *Linum rupestre* Engelm.
 S. 9968 " "

- 9649 *Linum scabrellum* Planch.

ZYGOPHYLLACEAE

- 9845 *Larrea divaricata* Cav.
 9846 *Sericodes Greggii* Gray
 9615 *Peganum mexicanum* Gray

RUTACEAE

- 9764 *Ptelea trifoliata* L. var.
 9866 " " "

MALPIGHIACEAE

- 9857 *Mascagnia lilacina* (Wats.) Niedenz.

POLYGALACEAE

- 9692 *Polygala scoparia* HBK.
 9817 *Polygala*
 7872 *Polygala*
 9809 *Polygala glandulosa* HBK.
 9697 *Polygala macradenia* Gray
 9757 *Polygala alba* Nutt. var
 9736 " " "

EUPHORBIACEAE

- 9758 *Euphorbia acuta* Engelm.
 9729 *Euphorbia cinerascens* Engelm.
 9596 *Euphorbia antisyphilitica* Zucc.
 9740 *Euphorbia campestris* C. & S.
 9849 *Acalypha hederacea* Torr.
 9808 *Croton Torreyanus* Mull. Arg.
 9766 *Croton fruticulosus* Torr.
 9663 *Croton dioicus* Cav.
 9806 *Cnidoscolus inermiflorus* Jtn.
 9572 *Stillingia Treculiana* (Mull. Arg.) Jtn.
 9782 *Tragia teuceriifolia* Scheele

- SAPINDACEAE
 9795 *Neopringlea integrifolia* (Hemsl.) Wats.
- ANACARDIACEAE
 9707 *Rhus Andrieuxii* Engelm.
 9767 *Rhus pachyrrhachis* Hemsl.
- CHLACSTRACEAE
 9604 *Mortonia Palmeri* Hemsl.
 9570 *Schaefferia cuneifolia* Gray
- RHAMNACEAE
 9879 *Ceanothus Greggii* Gray
- MALVACEAE
 9580 *Hibiscus Coulteri* Gray
 9847 *Hibiscus denudatus* Benth. var. *involucellatus* Gray
 1905 *Sida acuta* Burm.
 9803 " "
 9567 *Malvastrum coromandelianum* (L.) Garcke
 9619 *Sphaeralcea hastulata* Gray
 9844 " "
 9889 *Sphaeralcea angustifolia* (Cav.) Don
- VIOLACEAE
 S. 9931 *Hybanthus verticellatus* (Ort.) Baill.
- TURNERACEAE
 9569 *Turnera diffusa* Willd.
- LYTHRACEAE
 9791 *Heimia salicifolia* (HBK.) Link
- LOASACEAE
 9908 *Mentzelia humilis* (Gray) Darl.?
 9678 *Mentzelia hispida* Willd.
- ONAGRACEAE
 9621 *Gaura coccinea* Nutt.
 9610 " "
 9744 *Oenothera tubicula* Gray
- PLUMBAGINACEAE
 9768 *Plumbago scandens* L.
- OLEACEAE
 9759 *Fraxinus cuspidata* Torr.
 9570a *Fraxinus Greggii* Gray
- LOGANACEAE
 9701 *Buddleia tomentella* Standl.
 9822 *Buddleia marrubifolia* Benth.
 9863 *Emorya suaveolens* Torr.
- APOCYNACEAE
 9833 *Macrosiphonia macrosiphon* (Torr.) Heller
 9885 *Mandevilla Karwinskii* (Mull. Arg.) Hemsl.
- ASCLEPIADACEAE (det R.C. Foster)
 9312 *Metastelma Pringlei* Gray ?
 9694 " " !
 9684 " " !
 9688 *Asclepias Linaria* Cav.
 9907 *Asclepias brachystephana* Engelm.
- CONVOLVULACEAE
 9616 *Cuscuta glabrior* (Engelm.) Yunk.
 9753 *Dichondra argentea* Willd.
 9690 *Ipomoea heterophylla* Ort.
- PRIMULACEAE
 9880 *Gilia rigidula* Benth.
 9765 *Gilia incisa* Benth.
- HYDROPHYLLOIDEAE
 9606 *Nama hispidum* Gray, var. *gypsicola* Jtn. topotype
 S. sine no. *Nama undulatum* HBK. 5 mi. N. of Sta. Rita, Zac. Sept. 7, '38

HYDROPHYLLACEAE--cont

- 9865 Nama Palmeri Gray
 9641 " "
 9864 Nama flavescens Brandg.
 9896 Nama stenophyllum Gray

BORAGINACEAE

- 9613 Cryptantha albida (HBK.) Jtn.
 9843 Coldenia mexicana Gray
 9585 Coldenia Greggii (Torr.) Gray
 9666 Coldenia Purpusii Brandg.
 9639 Coldenia canescens DC.
 9770 Antiphytum heliotropioides DC.
 9860 " "
 9816 Heliotropium confertifolium Torr. var.
 9586 Heliotropium angustifolium Torr.
 9800 Cordia Boissieri DC.
 9571 " "

VERBENACEAE

- 9747 Verbena teucriifolia M. & G.
 9728 Verbena Shrevei, n. sp.
 9784 Lantana achyranthifolia Desf.
 9682 Lippia macrostachya (Torr.) Wats.
 9813 Lippia Berlandieri Schauer
 9579 " "

LABIATAE

- 9711 Salvia new?
 9667 Salvia ovatifolia Epling
 9870 Salvia coahuilensis Fern.
 9752 Salvia reflexa Hornem.
 9814 Salvia bellotaefolia Benth.
 9638 " "
 9861 Salvia Greggii Gray
 9681 Salvia Keerli Benth.
 9733 Salvia Regla Cav.
 9898 Tetraclea Coulter. Gray
 S. 9917 Isanthus brachiatus (L.) BSP.
 9617 Teucrium cubense L. var.
 9713 Monarda citriodora Cerv.
 Hedeoma pruinosa n. sp. 9779a
 9756 Hedeoma Shrevei n. sp.
 9573 Hedeoma Drummondii Benth. mixed with Verbena
 9779 Scutellaria Drummondii Benth.
 9724a " "

SOLANACEAE

- 9634 Lycium leiocarpum Jtn.
 9630 Lycium modestum Jtn.
 9632 Lycium Berlandieri Dunal
 9855 " "
 9798 Chamaesaracha Coronopus (Dun.) Gray
 9903 Chamaesaracha conoides (Moric.) Britt.
 9633 Solanum triquetrum Cav.
 9804 Solanum verbascifolium L.
 9602 Physalis hederæfolium Gray
 9590 Physalis mollis Nutt. var. parvifolia Rydb.
 9628 Physalis longifolium Nutt.

SCROPHULARIACEAE

- 9731 Gerardia Greggii Wats.
 9618 Maurandya antirrhiniflora H. & B.
 9670 Castilleja mexicana (Hemsl.) Gray
 9627 Castilleja lanata Gray
 9741 Pentstemon perfoliosus Jtn. ined.
 9856 Leucophyllum griseum Jtn.
 9762 Leucophyllum zygophyllum Jtn.

9683
 9603

SCROPH.- cont.

- 9695 *Leucophyllum pruinosa* Jtn.
 9682a " "
 9797 *Leucophyllum fruticosum* (Berl.) Jtn.

ACANTHACEAE

- 9802 not recognized
 9773 *Ruellia nudiflora* (Eng. & Gray) Urban, var. *occidentalis* Leonard
 9850 *Dyschoriste decumbens* (Gray) Kuntze
 9680 *Anisacanthus quadrifidus* (Vahl) Nees
 9785 *Tetramerium hispidum* Nees
 9631 *Carlwrightia* all G.H. material off on loan.

BIGNONIACEAE

- 9705 *Chilopsis linearis* (Wav.) Sweet
 9760 " "
 9848 *Tecoma incisum* (Rose & Standl.) Jtn.

LENTIBULARIACEAE

- 9923 S. *Utricularia subulata* L.

RUBIACEAE

- S. 9916 *Houstonia angustifolia* Michx.
 9783 " "
 9599 *Houstonia rubra* Cav.
 9643 *Houstonia acerosa* Gray
 9862 *Bouvardia ternifolia* (Cav.) Schl.
 9648 " "
 9584 " "

LOBELIACEAE

- S. 9156 *Lobelia fenestralis* Cav.
 S. 9287 " "
 9724 *Lobelia grana* Cav.

COMPOSITAE

- 9581 *Chaetopappa modesta* (DC.) Gray
 9620 *Aplopappus venetus* (HBK.) Blake
 9842 *Aplopappus trianthus* Blake
 9696 *Gutierrezia lucida* Greene
 S. 9943 *Gutierrezia texana* (DC.) T. & G.
 9840 *Gutierrezia eriocarpa* Gray
 9710 *Baccharis neglecta* Britt.
 9788 *Heterotheca Chrysopsidis* DC.
 9720 *Grindelia tenella* Steyerl.
 9787 " " !

Asterioids

- 9874 *Selloa glutinosa* Spreng.
 9706 *Stevia purpurea* Pers.
 9709 *Stevia*

Eupatorioids

- S. 9921 *Eupatorium serotinum* Michx.
 9853 *Eupatorium betonicifolium* Mill.
 9626 *Eupatorium Greggii* Gray
 9727 *Eupatorium Wrightii* Gray
 9712 *Vernonia Greggii* Gray
 9819 *Tridax procumbens* L.
 9786 *Calea Zacatechichi* Schl.

Vernonioids
Helianthoids

- 9659 *Sclerocarpus*?
 9611 *Dicranocarpus parviflorus* Gray
 9622 *Ratibida columnifera* (Nutt.) W. & S.
 9716 *Sclerocarpus uniserialis* (Hook.) B. & H.
 9647 *Verbesina Rothrockii* Rob. & Greenm.
 S. 8380 *Simsia calva* (Gray & Engelm.) Gray
 8827 *Simsia amplexicaulis* (Cav.) Pers.
 9878 *Flourensia ilicifolia* Brandg.
 9625 *Helianthus ciliaris* DC.
 9756a *Helianthella mexicana* Gray
 9650 *Viguiera stenoloba* Blake
 9587 *Zexmenia brevifolia* Gray

COMPOSITAE- cont.

- 9612 *Thelesperma scabridulum* Blake topotype
 9873 *Thelesperma longipes* Gray
 9636 *Zinnia acerosa* (DC.) Gray near type locality
 9614 " "
 9792 *Zinnia multiflora* L.
 S. 9977 *Pectis angustifolia* Torr. Dyssodioids
 9831 *Pectis angustifolia* Torr. var. *subaristata* Gray
 9841 *Dyssodia Thurberi* (Gray) Robins.
 9645 *Dyssodia pinnata* (Cav.) Robins.
 9664 *Dyssodia setifolia* (Lag.) Robins.
 9815 *Dyssodia micropoides* (DC.) Loesn.
 9836 *Nicolletia Edwardsii* Gray
 9718 *Tagetes lucida* Cav.
 9646 *Porophyllum filifolium* Gray
 9877 *Chrysactinia mexicana* Gray
 9644 " "
 9609 *Sartwellia humilis* Jtn Helenioids
 9754 *Flaveria anomala* Robins.
 9676 *Florestina tripteris* DC.
 9589 *Palafoxia texana* DC.
 9775 *Helenium amphibolum* DC.
 9750 *Actinea odorata* (DC.) Kuntze
 9656 *Actinea scaposa* (DC.) Kuntze, var. *linearis* (Nutt.) Robins.
 9658 *Bahia absinthifolia* Benth.
 9895 " " var. *dealbata* Gray
 9742 *Psilostrophe gnaphalodes* DC.
 9703 *Gaillardia*
 9629 *Cirsium* Thistles
 9902 *Senecio* Senecioids
 9852 *Varilla mexicana* Gray
 S. 8914 *Bartlettia scaposa* Gray
 9755 *Haploesthes Greggii* Gray, var. *multiflora* Jtn.
 9677 *Gochnatio hypoleuca* (DC.) Gray Mutisioids

Sterile material

- 9803a *Pluchea odorata* (L.) Cass.
 9803b apparently member of *Tutaceae* but I can't match it.
 980c family not recognized.



Shreve, Forrest, Tinkham, Ernest R., and Johnston, I. M. 1940. "Mexican Plants Collected by Shreve & Tinkham in 1940." *Plant lists, Mexico*

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