



Hunt Institute for Botanical Documentation  
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#### *About the Institute*

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

# Distribution of Ryer's Collections.

TAXON # - Herbaria (2)

1 - 523-MEXU, NY, ~~US~~, US,

~~2~~ - 524, MEXU, NY, G,

422, N.Y. (3) ✓

423, G (2), ✓

Rayana 115 - US, F, W, K, COLO.

51 - F, W, K, COLO, MD, MICH, M, S, A, SP,

2 - 528-MEXU, NY(4), G(3) US(3) F(3), W(2), K(2), COLO(2)  
MD(2), MICH(2) M(2)

4 - 504 - NY(3), G(2) US, FR, W(2) K, UCR, PL, BA, A, S,  
M, MD

510-MEXU, NY(3), G, US(2), FR, W, COLO, MD,  
MICH, M, S, A

515 - NY, G, US(2) K, MICH,

520 - MEXU, COLO, BA, MICH, MD, US, F,

521 - MEXU, NY(3), G(2), US, FR, K, COLO, MD, W

James 320 - NY,

321 MEXU, DAK(2),

322 NY, MEXU, ARIZ,

323 US, SP

324 B, M, MICH

326 G, US, F, W, K, COLO, BA, MD

327 SP, AR, SR

334 NY, MEXU, SP, ARIZ, UG, P, A,

335 MEXU, DAK, ARIZ, BM

TAXON 103- 356- NY(3)

TAXON 1- <sup>2</sup> Coll. by Wm. C. Stout - Fla. Seminars  
donated to US.

Herbaria

- 6 ~~MEHU~~, 505-Mexu, NY(2), F, K, MO, US<sup>(3)</sup>, W, R, S, SP, COLO.  
 506-NY, Mich., M, S, G<sup>(2)</sup>  
 507-Mexu, NY<sup>(2)</sup>, G, US(3), F, W, K, COLO(2), MO, R, S
- 7- 511-Mexu, NY(2), G, US, F, W, K, COLO(2), MO.  
 512-NY, G(2), US, MO, ARIZ, UC, R, BM, SR, A, S, M, MICH,
- 9- 519-Mexu, NY(2), G(2), US(2), F(2), W, K,
- 10A 508-NY(3), ~~W, MO~~  
 508a-G  
 b-R  
 c-  
 d-US  
 e-S  
 f-MICH  
 g-F  
 h-COLO  
 i-MEXU
- 11- 525-Mexu, NY(2), G(2), US,  
 526-NY(2), G, US, F<sup>(2)</sup>, K, COLO, S, M, MICH,  
 529-Mexu, W, NY, K, MEXU, MO, US, F,  
 533-Mexu, NY, K, COLO, UC, R, BM, SR, A
- 12-- 522-NY, G, US, F
- 13- 509-Mexu(2), NY(2), G(2), US, F(2), W, K,
- 14- 514-Mexu, NY(4), G(2), US(2), W, K, COLO, A, S, 513-SP, F, A, S, M, MICH,
- 14 15- 517-NY, Jansz, 330-R, BM,
- 15- 516-Mexu, NY, G, F, W, K,  
 517-NY, UC, ARIZ, G

23- 357-NY

24- 496 F, S, A, SP, BM, US

497 US, F, W, K,

498-NY(3), G(2),

499-NY(2) COLO, X(10), MICH, XI, G

26- 373-NY(2), G(2), US, K, MO, MICH, XI,

372-F(2), COLO,

28- 333-NY

36- 494-NY(3), G(2), US, F(2), W, K(2),

37- 495-US, G, NY

Taxon #

45-Harley, Barroso,

11404-NY

Taxon #52

Phikor + Ferrera 3868-

~~NY~~

Taxon #40

Harley, Souza + Ferrera

10381-NY

59A- 362-NY

364-NY

62c- 430-NY(2) G, US(2), W, K, COLO, MO, MICH, M.S., A, SP, BM, P

431-US, DC, ARIZ, MG, DAV

435 NY, G, F(2), W, MO, MICH, M.S.

437 a NY(2)

b COLO

c. NY(3) G, F, K, A, SP, BM, P

d. G

e

~~+~~ - W

Vargas 5852-NY

1A335-NY

66- 352 NY(4)

371-NY, G

386-NY, G, US, W

411-NY(2) G, US

W y char by 760-NY, G, US, F

761-NY(2) G(2), US, F

762-NY, G, W

68-353 ~~NY(1)~~

354 ~~G(2)~~

381-~~NY~~ ~~G(2)~~, ~~XS~~

385-~~NY~~, ~~G~~, ~~XS~~, ~~F~~

394-~~NY(2)~~, ~~G~~, ~~F~~, ~~W~~, ~~COLO~~

395-~~NY~~, ~~G~~, ~~F~~, ~~W~~, ~~K~~, ~~COLO~~

399-~~NY(2)~~, ~~G~~, ~~XS~~, ~~F~~

403-~~NY~~, ~~G~~, ~~XS~~, ~~F~~

409-~~NY(2)~~, ~~G~~, ~~XS~~, ~~F~~, ~~W~~

A10-~~NY~~, ~~G(2)~~

Sarmiento s.n.-~~NY~~, ~~G~~, ~~XS~~, ~~F~~, ~~W~~, ~~K~~, ~~COLO~~, ~~MO~~

~~73-413~~ <sup>F, W, K, COLO.</sup> ~~NY~~, ~~G~~, ~~XS~~ ||| ~~taxon 73~~ ~~Marcos + Vega 4852A~~ ~~NY(2)~~ ~~G(2)~~, ~~XS~~, ~~F~~

74-467-~~NY(3)~~, ~~G(2)~~, ~~XS(2)~~, ~~F~~, ~~W(2)~~, ~~K~~, ~~COLO~~, ~~MO~~, ~~MICH~~, ~~XI~~, ~~S~~

468-~~NY~~, ~~G~~, ~~XS~~, ~~F~~, ~~W~~, ~~K~~

474-~~NY(2)~~, ~~G~~, ~~XS~~, ~~F~~, ~~W~~, ~~K~~

Carneiro + Dale s.n.-~~NY~~, ~~G~~, ~~XS~~, ~~F~~, ~~W~~

Vargas 11608-~~NY~~

86A-363-~~NY(3)~~

97A-391-~~NY~~, ~~G~~, ~~XS~~, ~~F~~, ~~W~~, ~~K~~, ~~COLO~~, ~~MICH~~,

398-~~NY~~, ~~G~~, ~~XS~~

404-~~NY~~, ~~G~~, ~~XS~~, ~~F~~

408-~~NY~~, ~~G~~, ~~XS~~

*Gift Acknowledgement*

Professor David J. Rogers  
1554 Chambers Drive  
Boulder, Colorado 80303

UNIVERSITY  
OF COLORADO

CASH \$ \_\_\_\_\_

DATE 8/23/71

GIFT-IN-KIND: VALUE \$ 52.50

APPRAISAL BY:

Peter Robinson

Dwight D. [Signature]  
DIRECTOR OF DEVELOPMENT

THIS GIFT TAX DEDUCTIBLE — USE THIS RECEIPT



KOENIG ALUMNI CENTER

The University of Colorado and the officers  
of the CU Foundation express  
sincere appreciation for your gift.

UNIVERSITY MUSEUM

Your commitment to the University of Colorado  
is greatly appreciated.

Set 1 for distribution - to NY - total  $\Pi = 145$

- M. hybrid, esculenta* x ?  
✓ Rogers 356-3 sheets
- Manihot esculenta* Crantz  
✓ Rogers 422--3 sheets  
✓ " 523--2 sheets  
✓ " 524--1 sheet
- Manihot pringlei* Watson  
✓ Rogers 528--2 sheets
- Manihot aesculifolia* (HBK) Pohl  
✓ Jancey 334--1 sheet  
✓ Rogers 521--1 sheet  
✓ " 504--1 sheet  
✓ " 515--1 "  
✓ " 510--1 "  
✓ " 504--1 "  
Laughlin 1125--1 sheet  
✓ Jancey 320--1 sheet  
✓ " 322--1 sheet
- Manihot oaxacana* Rogers & Appan  
✓ Rogers 506--1 sheet  
✓ " 507--1 sheet
- Manihot chlorosticta* Standley & Goldman  
✓ Rogers 511--2 sheets
- Manihot angustiloba* (Torr) M. Arg.  
✓ Rogers 519--1 sheet
- M. rhomboidea* ssp. *rhomboidea*  
✓ Rogers 508--2 sheets
- M. subspicata* Rogers & Appan  
✓ Rogers, Appan & Rogers ~~533~~ 533--1 sheet  
✓ " " " 526--2 sheets  
✓ " " " 525--1 sheet  
529-3
- M. walkerae* Croizat  
✓ Rogers 522--1 sheet
- M. caudata* Greenman  
✓ Rogers 509--2 sheets
- M. michaelis* McVaugh  
✓ Rogers 514--3 sheets
- M. tomatophylla* Standley  
✓ Rogers 516--1 sheet
- M. janiphoides* M. Arg.  
✓ Rogers 357--1 sheet
- M. grahmi* Hooker  
✓ Rogers 498--3 sheets
- M. pilosa* Pohl  
✓ Rogers 373--2 sheets
- M. leptopoda* (M. Arg.) Rogers & Appan  
✓ Rogers 335
- M. carthaginensis* (Jacq.) M. Arg.  
✓ Rogers ~~444~~ 494--2 sheets
- M. gracilis*, ssp. *gracilis*  
✓ Rogers 362--1 sheet  
✓ " 364--1 sheet
- M. anomala* ssp. *pavoniana* 62a  
✓ Rogers 430--2 sheets  
✓ " 437--2 sheets
- M. glaziovii* M. Arg.  
✓ Rogers 411--2 sheets  
✓ " 371--1 sheet  
✓ " 352--4 sheets  
✓ " 386--1 sheet
- M. epruinosa* P & K.  
✓ Sarmiento s.n.--1 sheet  
✓ Rogers 381--1 sheet  
✓ " 395--1 sheet  
✓ " 394--2 sheets  
✓ " 410--1 sheet  
✓ " 353--4 sheets  
✓ " 403--1 "  
✓ " 399--2 "  
✓ " 409--2 "  
✓ " 385--1 "  
✓ Sarmiento s.n.--1 sheet
- M. brachyloba* M. Arg.  
✓ Rogers 413--1 sheet  
✓ " 474--1 sheet  
✓ " 467--2 sheets *M. leptophylla* P & K  
✓ " 468--1 sheet *taxon 74*  
✓ Carneiro & Dole s.n.--3 sheets
- M. tomentosa* ssp. *tomentosa*  
✓ Rogers 363--2 sheets.
- M. caerulea* ssp. *caerulea*  
✓ Rogers 397--1 sheet  
✓ " 398--1 sheet  
✓ " 404--1 sheet  
✓ " 408--1 sheet

and stem  
Root/specimens of set 1

M. pringlei Wats. taxon 2

→ Rogers, Appan & Rogers 528, 1 root, 1 stem

M. aesculifolia (HBK) Pohl taxon 4

→ Rogers 504, 1 stem

→ Rogers 510, 1 root, 1 stem

→ Rogers 521, 1 root, 1 stem

M. oaxacana Rogers & Appan taxon 6

→ Rogers 505, 1 root, 1 stem

→ Rogers 507, 1 stem

M. ~~chlorosticta~~ chlorosticta Standley & Goldman taxon 7

→ Rogers 511, 1 stem

→ Rogers 512, 1 specimen with stem and root

M. angustiloba (Torr.) M. Arg. taxon 9

→ Rogers, D.J. ~~519~~ 519, 1 root specimen

M. rhomboidea ssp. rhomboidea R & A taxon 10a

→ Rogers 508, 1 root

M. subspicata Rogers & Appan taxon 11

→ Rogers, Appan & Rogers 525, 1 stem, 1 root

M. caudata Greenman taxon 13

→ Rogers 509, 1 stem

M. michaelis McVaugh taxon 14

→ Rogers 514, 1 stem

→ Rogers 517, 1 root

M. tomatophylla

M. grahami Hooker taxon 24

→ Rogers 499, 1 stem, 1 root

M. carthaginensis (Jacq.) M. Arg taxon 36

→ Rogers 494, 1 root and stem spec.

M. filamentosa Pittier taxon 37

→ Rogers 495, 1 stem

M. anomala ssp. pavoniana (M. Arg.) Rogers & Appan taxon 62e

→ Rogers 435, 1 stem and root spec.

→ Rogers 437-c, 1 stem and root spec.

M. brachyloba M. Arg. taxon 73

→ Rogers 474, 1 stem and root

M. leptophylla Pax & Hoffm. taxon 74

→ Rogers 467, 1 stem

→ Carneiro & Dole s.n. 1 stem & root

Specimen contributions to NY

M. alutacea Rogers & Appan taxon 45

→ Harley, R.N., Barroso, G.M. 11404

M. flemingiana R & A, taxon 52

→ Philcox, D and Ferreira 3868

M. xavantinensis R & A taxon 40

→ Harley, R.M., Souza, R. and Ferreira, A. 10,381

M. subspicata R & A taxon 11

→ Rogers, D.J., Appan, S.G., and Rogers, R. 529

M. ~~oxacana~~ oxacana R & A taxon 6

→ Rogers, D.J. 505

Additional specimens for set 1

*M. anomala* ssp. *pavoniana*, taxon 62e

✓ Vargas 5852, 1 sheet

✓ Vargas 14335, 1 sheet

*M. glaziovii* M. Arg., taxon 66

✓ Wycherly, 760, 1 sheet

✓ " 761, 2 sheets

✓ " 762, 1 sheet

*M. brachyloba* M. Arg., taxon 73

✓ Marcano and Vega 4852A, 3 sheets

*M. leptophylla* Pax & Hoffm., taxon 74

✓ Vargas 11608, 1 sheet

Set 2 for distribution - total - 78 - G

M. esculenta Grantz taxon 1

- ✓ Rogers 423, 2 sheets
- ✓ Rogers 524, 1 sheet

M. pringlei Watson, taxon 2

- ✓ Rogers, Appan & Rogers 528, 1 sheet

M. aesculifolia (HBK) Pohl

- ✓ Rogers 504, 1 sheet
- ✓ Rogers 510, 1 sheet
- ✓ Rogers 515, 1 sheet
- ✓ Rogers 521, 1 sheet
- ✓ Jancey 326, 1 sheet

M. oaxacana Rogers & Appan, taxon 6

- ✓ Rogers 507, 1 sheet

M. chlorosticta Standley & Goldman taxon 7

- ✓ Rogers 512, 1 sheet

M. angustiloba (Torr.) M. Arg. taxon 9

- ✓ Rogers 519, 1 sheet

M. rhomboidea ssp. rhomboidea

- ✓ Rogers 508a, 1 sheet

M. subspicata Rogers & Appan, taxon 11

- ✓ Rogers, ~~526~~ Appan & Rogers 526, 1 sheet

M. walkerae Croizat, taxon 12

- ✓ Rogers 522, 1 sheet

M. caudata Greenman, taxon 13

- ✓ Rogers 509, 1 sheet

M. michaelis McVaugh, taxon 14

- ✓ Rogers 514, 1 sheet

M. tomatophylla Standley, taxon 15

- ✓ Rogers 516, 2 sheets

M. grahami Hooker, taxon 24

- ✓ Rogers, Thieret and Reese 498, 2 sheets

M. pilosa Pohl, taxon 26

- ✓ Rogers 373, 2 sheets

M. carthaginensis (Jacq.) M. Arg., taxon 36

- ✓ Rogers 494, 1 sheet

M. anomala, ssp. pavoniana (M. Arg.) Rogers & Appan, taxon 62e

- ✓ Rogers 435, 1 sheet
- ✓ Rogers 437-d, 1 sheet

Set 2 for distribution, (continued)

*M. glaziovii* M. Arg, taxon 66

- Rogers 371, 1 sheet
- " 386, 1 sheet
- " 411, 1 sheet

*M. epruinosa* Pax & Hoffm., taxon 68

- Rogers 381, 2 sheets
  - Rogers 394, 1 sheet
  - Rogers 395, 1 sheet
  - Rogers 399, 1 sheet
  - Rogers 403, 1 sheet
  - Rogers 409, 1 sheet
  - Rogers 410, 2 sheets
  - Sarmiento, s.n., 1 sheet
- \_\_\_\_\_ Rogers 385, 1 sheet
- Rogers 354, 2 sheets

*M. brachyloba* M. Arg., taxon 73

- Rogers 413, 1 sheet

*M. leptophylla* Pax & Hoffm. Taxon 74

- Rogers 467, 1 sheet
- Rogers 468, 1 sheet
- Rogers 474, 1 sheet
- Carneiro and Dole, s.n., 1 sheet

~~XXXXXXXXXXXXXXXXXXXX~~

*M. caerulescens*, ssp. *caerulescens*, taxon 97a

- Rogers 397, 1 sheet
- Rogers 398, 1 sheet
- Rogers 404, 1 sheet
- Rogers 408, 1 sheet

and stem  
Root specimens of set 2

*M. pringlei* Watson, taxon 2

- Rogers, Appan, & Rogers 528, 1 stem, 1 root

*M. aesculifolia* (HBK) Pohl, taxon 4

- Rogers 504, 1 stem spec.
- Rogers 521, 1 root

*M. oaxacana* Rogers & Appan, taxon 6

- Rogers 505, 1 stem
- Rogers 506, 1 stem & root

*M. chlorosticta* Standley & Goldman, taxon 7

- Rogers 511, 1 stem
- Rogers 512, 1 root

*M. angustiloba* (Torr.) M. Arg., taxon 9

- Rogers 519, 1 stem & root

*M. subspicata* Rogers & Appan, taxon 11

- Rogers, Appan & Rogers 525, 1 stem spec. and 1 root spec.

and stem  
Root/specimens of set 2 (cont.)

M. caudata Greenman, taxon 13  
✓ Rogers 509, 1 stem

M. michaelis McVaugh, ~~taxon~~ taxon 14  
✓ Rogers 514, 1 stem

M. tomatophylla Standley  
✓ Rogers 517, 1 stem

M. grahami Hooker, taxon 24  
✓ Rogers 499, 1 stem and 1 root

M. carthaginensis (Jacq.) M. Arg., taxon 36  
✓ Rogers 494, 1 stem

M. filamentosa Pittier, taxon 37  
✓ Rogers 495, 1 stem

M. anomala ssp pavoniana (M.Arg.) R. & A. stat. nov., taxon 62e  
→ Rogers 430, 1 root  
→ Rogers 437-c, 1 stem  
~~XXXXXXXXXXXXXXXXXXXX~~

M. leptophylla Pax & Hoffm. taxon 74  
→ Rogers 467, 1 stem.

Additional specimens for Set 2

*M. glaziovii* M. Arg., taxon 66

↳ Wycherly, 760, 1 sheet

↳ " 761, 2 sheets

↳ " 762, 1 sheet

*M. brachyloba* M. Arg. taxon 73

↳ Marcan and Vega 4852A, 2 sheets

Set 3 for distribution *Total 58 - US.*

*M. esculenta* Crantz, taxon 1  
✓ Rogers 523, 1 sheet  
✓ Bejarana 115, 1 sheet

*M. pringlei* Watson, taxon 2  
✓ Rogers, Appan & Rogers 528, 1 sheet

*M. aesculifolia* (HBK) Pohl  
✓ Rogers 504, 1 sheet  
✓ Rogers 510, 1 sheet  
✓ Rogers 515, 1 sheet  
✓ Rogers 521, 1 sheet  
✓ Jancey 326, 1 sheet

*M. oaxacana* Rogers & Appan, taxon 6  
✓ Rogers 507, 2 sheets

*M. chlorosticta* Standley & Goldman, taxon 7  
✓ Rogers 511, 1 sheet

*M. angustiloba* (Torr) M. Arg., taxon 9  
✓ Rogers 519, 1 sheet

*M. rhomboidea*, ssp. *rhomboidea*, taxon 10a  
✓ Rogers 508d, 1 sheet

*M. subspicata* Rogers & Appan, taxon 11  
✓ Rogers, Appan & Rogers 526, 1 sheet

*M. walkerae* Croizat, taxon 12  
✓ Rogers 522, 1 sheet

*M. caudata* Greenman, taxon 13  
✓ Rogers 509, 1 sheet

*M. michaelis* McVaugh, taxon 14  
✓ Rogers 514, 1 sheet

*M. grahami* Hooker, taxon 24  
✓ Rogers, Thieret & Reese 497, 1 sheet

*M. pilosa* Pohl, taxon 26  
✓ Rogers 373, 1 sheet

*M. carthaginensis* (Jacq.) M. Arg. taxon 36  
✓ Rogers 494, 1 sheet

*M. anomala*, ssp. *pavoniana*, taxon 62e  
✓ Rogers 430, 1 sheet  
✓ Rogers 431, 1 sheet

*M. glaziovii*, M. Arg., taxon 66  
✓ Rogers 386, 1 sheet  
✓ Rogers 411, 1 sheet

*M. epruinosa* Pax & Hoffmn., taxon 68  
✓ Rogers 381, 1 sheet  
✓ Rogers 385, 1 sheet  
✓ Rogers 399, 1 sheet  
✓ Rogers 403, 1 sheet  
✓ Rogers 409, 1 sheet  
✓ Sarmento s.n. 1 sheet

*M. brachyloba* M. Arg. taxon 73  
✓ Rogers 413, 1 sheet

*M. leptophylla* Pax & Hoffmn.  
✓ Rogers 467, 1 sheet  
✓ Rogers 468, 1 sheet  
✓ Rogers 474, 1 sheet  
✓ Carneiro & Dole s.n. 1 sheet

*M. caerulea* ssp. *caerulea*, taxon 97a  
✓ Rogers 408, 1 sheet  
✓ Rogers 397, 1 sheet  
✓ Rogers 398, 1 sheet  
✓ Rogers 404, 1 sheet

Root and stem specimens

*M. pringlei* Wats.  
✓ Rogers 528 1 stem and 1 root

*M. aesculifolia* (HBK) Pohl  
✓ Rogers 510, 1 stem and root  
✓ Rogers 515, 1 stem  
✓ Rogers 520, 1 root

*M. oaxacana* R & A.  
✓ Rogers 505, 1 stem & root  
✓ Rogers 507, 1 stem

*M. chlorosticta* Standl. & Galdm.  
✓ Rogers 512, 1 root

*M. angustiloba* (Torr.) M. Arg.  
✓ Rogers 519, 1 stem & root

*M. subspicata* R & A  
✓ Rogers, Appan, Rogers 525, 1 root

*M. michaelis* McVaugh  
✓ Rogers 514, 1 stem

*M. grahami* Hooker  
✓ Rogers 496, 1 root

*M. filamentosa* Pittier  
✓ Rogers 495, 1 stem & root

*M. anomala*, ssp. *pavoniana*  
✓ Rogers 430, 1 root

*M. leptophylla* P & H  
✓ Rogers 467, 1 stem

+ 8 specimens of *M. esculenta* collected by Wm. C. Sturtevant - Seminoles in Florida

Additional specimens for set 3

*M. glaziovii* M. Arg., taxon 66

✓ Wycherly 760, 1 sheet

✓ " 761, 1 sheet

✓ " 762, 1 sheet

*M. brachyloba* M. Arg., taxon 73

✓ Marcano and Vega 4852A, 1 sheet

Set 4 for distribution - total 54-F.

- M. esculenta* Crantz, taxon 1  
↳ Rogers 51, 1 sheet  
↳ Bejarano 115, 1 sheet
- M. pringlei* Watson, taxon 2  
↳ Rogers, Appan & Rogers 528, 1 sheet
- M. aesculifolia* (H.B.K.) Pohl  
↳ Rogers 504, 2 sheets  
↳ Rogers 510, 2 sheets  
↳ Rogers 521, 1 sheet  
↳ Jancey 326, 1 sheet
- M. oaxacana* Rogers & Appan, taxon 6  
↳ Rogers 507, 1 sheet
- M. chlorosticta* Standley & Goldman, taxon 7  
↳ Rogers 511, 1 sheet
- M. angustiloba* (Torr.) M. Arg., taxon 9  
↳ Rogers 519, 1 sheet
- M. rhomboidea* ssp. *rhomboidea*, taxon 10a  
↳ Rogers 508g, 1 sheet
- M. subspicata* Rogers & Appan, taxon 11  
↳ Rogers, Appan & Rogers 526, 1 sheet
- M. walkerae* Croizat, taxon 12  
↳ Rogers 522, 1 sheet
- M. caudata* Greenman, taxon 13  
↳ Rogers 509, 2 sheets
- M. michaelis* McVaugh, taxon 14  
↳ Rogers 512, 1 sheet  
(5)31
- M. tomatophylla* Standley, taxon 15  
↳ Rogers 516, 1 sheet
- M. grahami* Hooker, taxon 24  
↳ Rogers, Thieret & Reese 497, 1 sheet
- M. pilosa* Pohl, taxon 26  
↳ Rogers 372, 2 sheets
- M. carthaginensis* (Jacq.) M. Arg., taxon 36  
↳ Rogers 494, 2 sheets
- M. anomala*, ssp. *pavoniana*, taxon 62e  
↳ Rogers 435, 1 sheet  
↳ Rogers 437-c, 1 sheet
- M. glaziovii* M. Arg., taxon 66  
↳ Rogers 412, 1 sheet
- M. epruinosa* Pax & Hoffm., taxon 68  
↳ Rogers 385, 1 sheet  
↳ Rogers 394, 1 sheet  
↳ Rogers 395, 1 sheet  
↳ Rogers 399, 1 sheet  
↳ Rogers 403, 1 sheet  
↳ Rogers 409, 1 sheet  
↳ Sarmento s.n. 1 sheet
- M. brachyloba* M. Arg. taxon 73  
↳ Rogers 413, 1 sheet
- M. leptophylla* Pax & Hoffm., taxon 74  
↳ Rogers 467, 1 sheet  
↳ Rogers 468, 1 sheet  
↳ Rogers 474, 1 sheet  
↳ Carneiro & Dole s.n. 1 sheet
- M. caerulea* ssp. *caerulea*, taxon/ 97a  
↳ Rogers 397, 1 sheet  
↳ Rogers 404, 1 sheet
- ~~M. pringlei~~
- Root & stem specimens
- M. pringlei* Wats.  
↳ Rogers 528, 1 stem and 1 root
- M. aesculifolia* (HBK) Pohl  
↳ Rogers 520, 1 stem and root  
↳ Rogers 521, 1 stem
- M. angustiloba* (Torr.) M. Arg.  
↳ Rogers 519, 1 stem
- M. grahami* Hooker  
↳ Rogers, Thieret & Reese 496, 1 root
- M. leptophylla* Pax & Hoffm.  
↳ Rogers 467, 1 stem
- M. anomala*, ssp. *pavoniana*  
↳ Rogers 435, 1 root
- M. oaxacana* Rogers & Appan  
↳ Rogers 507, 1 stem
- M. subspicata* Rogers & Appan  
↳ Rogers, Appan & Rogers 526, 1 root

additional specimens for set ~~xx~~ 4

*M. glaziovii* M. Arg., taxon 66

→ Wycherly 760, 1 sheet

→ " 762, 1 sheet

*M. brachyloba* M. Arg., taxon 73

→ Marcan and Vega 4852A, 1 sheet

Set 5 for distribution - total 38 - W.

- M. esculenta* Crantz, Taxon 1  
✓ Rogers 51, 1 sheet  
✓ Bejarano 115, 1 sheet
- M. pringlei* Watson, taxon 2  
✓ Rogers, Appan & Rogers 528, 1 sheet
- M. aesculifolia* (HBK) Pohl, taxon 4  
✓ Rogers 504, 2 sheets  
✓ Rogers 510, 1 sheet  
✓ Jancey 326, 1 sheet
- M. oaxacana* Rogers & Appan, taxon 6  
✓ Rogers 507, 1 sheet
- M. chlorosticta* Standley & Goldman, taxon 7  
✓ Rogers 511, 1 sheet
- M. angustiloba* (Torr) M. Arg., taxon 9  
✓ Rogers 519, 1 sheet
- M. rhomboidea* ssp. *rhomboidea*, taxon 10a  
✓ Rogers 508, 1 sheet
- M. subspicata* Rogers & Appan, taxon 11  
✓ Rogers, Appan & Rogers 526, 1 sheet
- M. caudata* Greenman, taxon 13  
✓ Rogers 509, 1 sheet
- M. tomatophylla* Standley, taxon 15  
✓ Rogers 516, 1 sheet
- M. grahami* Hooker, taxon 24  
✓ Rogers, Thieret & Reese 497, 1 sheet
- M. pilosa* Pohl, taxon 26  
✓ Rogers 372, 1 sheet
- M. carthaginensis* (Jacq.) M. Arg., taxon 36  
✓ Rogers 494, 1 sheet
- M. anomala*, ssp. *pavoniana*, taxon 62e  
✓ Rogers 430, 1 sheet.  
✓ Rogers 437+, 1 sheet
- M. glaziovii* M. Arg., taxon 66  
✓ Rogers 386, 1 sheet  
✓ Rogers 412, 2 sheets
- M. epruinosa* Pax & Hoffm., taxon 68  
✓ Rogers 394, 1 sheet  
✓ Rogers 395, 1 sheet  
✓ Rogers 409, 1 sheet  
✓ Sarmiento s.n. 1 sheet
- M. brachyloba* M. Arg. taxon 73  
✓ Rogers 413, 1 sheet  
✓ Marcato and Vega 4852A, 1 sheet
- M. leptophylla* Pax & Hoffm. taxon 74  
✓ Rogers 467, 1 sheet  
✓ Rogers 468, 1 sheet  
✓ Rogers 474, 1 sheet  
✓ Carneiro & Dole s.n., 1 sheet
- xx  
*M. caeruleascens*, ssp. *caeruleascens*, taxon/ 97a  
✓ Rogers 397, 1 sheet
- Root & stem specimens
- M. pringlei* Wats. stem & root  
✓ Rogers, Appan & Rogers 528, 1/xx
- M. aesculifolia* (HBK) M Pohl  
✓ Rogers 521, 1 stem
- M. subspicata* Rogers & Appan root  
✓ Rogers, Appan & Rogers 529, 1 stem &/
- M. anomala*, ssp. *pavoniana*  
✓ Rogers 435, 1 stem
- M. leptophylla* Pax & Hoffm.  
✓ Rogers 467, 1 stem

Set 6 for distribution - *total = 31 - K*

- M. esculenta Crantz, taxon 1  
✓ Rogers 51, 1 sheet  
✓ Bejarano 115, 1 sheet
- M. pringlei Watson, taxon 2  
✓ Rogers, Appan & Rogers 528, 1 sheet
- M. aesculifolia (HBK) Pohl, taxon 4  
✓ Rogers 504, 1 sheet  
✓ Rogers 515, 1 sheet  
✓ Rogers 521, 1 sheet  
✓ Jancey 326, 1 sheet
- M. oaxacana Rogers & Appan, taxon 6  
✓ Rogers 507, 1 sheet  
~~M. chlorosticta Standley & Goldman~~
- M. chlorosticta Standley & Goldman, taxon 7  
✓ Rogers 511, 1 sheet
- M. angustiloba (Torr.) M. Arg., taxon 9  
✓ Rogers 519, 1 sheet
- M. rhomboidea ssp. rhomboidea, taxon 10a  
✓ Rogers 508b, 1 sheet
- M. subspicata Rogers & Appan, taxon 11  
✓ Rogers, Appan, Rogers 526, 1 sheet
- M. caudata Grenman, taxon 13  
✓ Rogers 509, 1 sheet
- M. michaelis McVaugh, taxon 14  
✓ Rogers 514, 1 sheet
- M. tomatophylla Standley, taxon 15  
✓ Rogers 516, 1 sheet
- M. grahami Hooker, taxon 24  
✓ Rogers, Thieret & Reese 497, 1 sheet
- M. pilosa Pohl, taxon 26  
✓ Rogers 373, 1 sheet
- M. carthaginensis (Jacq.) M. Arg., taxon 36  
✓ Rogers 494, 2 sheets
- M. anomala, ssp. pavoniana, taxon 62e  
✓ Rogers 430, 1 sheet  
✓ Rogers 437-c, 1 sheet
- M. epruinosa Pax & Hoffm. taxon 68  
✓ Rogers 395, 1 sheet  
✓ Sarmiento s.n. 1 sheet
- M. brachyloba M. Arg., taxon 73  
✓ Rogers 413, 1 sheet
- M. leptophylla Pax & Hoffm. taxon 74  
✓ Rogers 467, 1 sheet  
✓ Rogers 468, 2 sheets  
✓ Rogers 474, 1 sheet
- M. caeruleascens ssp. caeruleascens, taxon/  
✓ Rogers 397, 1 sheet
- Root & stem specimens
- M. pringlei Wats.  
✓ Rogers, Appan & Rogers 528, 1 stem
- M. subspicata R & A.  
✓ Rogers, Appan & Rogers 533, 1 root

97a

Set 7 for distribution *total = 26 - COLO*

- M. esculenta* Crantz, taxon 1  
✓ Rogers 51, 1 sheet  
✓ Bejarano 115, 1 sheet
- M. pringlei* Watson, taxon 2  
✓ Rogers, Appan & Rogers 528, 1 sheet
- M. aesculifolia* (HBK) Pohl  
✓ Rogers 510, 1 sheet  
✓ Rogers 520, 1 sheet  
✓ Rogers 521, 1 sheet  
✓ Jancey 326, 1 sheet
- M. oaxacana* Rogers & Appan, taxon 6  
✓ Rogers 507, 2 sheets
- M. chlorosticta* Standley & Goldman, taxon 7  
✓ Rogers 511, 2 sheets
- M. rhomboidea*, ssp. *rhomboidea*, taxon 10a  
✓ Rogers 508h, 1 sheet
- M. subspicata* Rogers & Appan, taxon 11  
✓ Rogers, Appan and Rogers 526, 1 sheet
- M. Michaelis* McVaugh, taxon 14  
✓ Rogers 514, 1 sheet
- M. grahami* Hooker, taxon 24  
✓ Rogers & Godfrey 499, 1 sheet
- M. pilosa* Pohl, taxon 26  
✓ Rogers 373, 1 sheet
- M. anomala*, ssp. *pavoniana*, taxon 62e  
✓ Rogers 430, 1 sheet  
✓ Rogers 437-b, 1 sheet
- M. epruinosa* Pax & Hoffm., taxon 68  
✓ Rogers 394, 1 sheet  
✓ Rogers 395, 1 sheet  
✓ Sarmiento, s.n. 1 sheet
- M. brachyloba* M. Arg., taxon 73  
✓ Rogers 413, 1 sheet
- M. leptophylla* Pax & Hoffm., taxon 74  
✓ Rogers 467, 1 sheet
- M. caerulescens*, ssp. *caerulescens*, taxon 97a  
✓ Rogers 397,

Root and stem specimens

- M. pringlei* Wats.  
✓ Rogers, Appan & Rogers 528, 1 stem
- M. subspicata* Rogers & Appan  
✓ Rogers, Appan & Rogers 533, 1 root

Set 8 for distribution. *total = 17 - 110*

*M. esculenta* Cranta, taxon 1  
Rogers 51, 1 sheet

*M. pringlei* Watson, taxon 2  
Rogers, Appan & Rogers 528, 1 sheet, 1 root spec.

*M. aesculifolia* (HBK) Pohl, taxon 4  
→ Rogers 504, 1 sheet  
→ Rogers 510, 1 sheet  
→ Rogers 520, 1 sheet  
→ Rogers 521, 1 sheet  
→ Jancey 326, 1 sheet

*M. oaxacana* Rogers & Appan, taxon 6  
→ Rogers 507 1 sheet

*M. chlorosticta* Standley & Goldman, taxon 7  
→ Rogers 511, 1 sheet

*M. rhomboidea*, ssp *rhomboidea*, taxon 10a  
→ Rogers 508, 1 sheet

*M. grahami* Hooker, taxon 24  
→ Rogers & Godfrey 499, 1 sheet

*M. pilosa* Pohl, taxon 26  
→ Rogers 373, 1 sheet

*M. anomala*, ssp. *pavoniana*, taxon 62e  
→ Rogers 430, 1 sheet  
→ Rogers 435, 1 sheet

*M. epruinosa* Pax & Hoffm., taxon 68  
→ ~~Rogers~~ Sarmiento s.n. 1 sheet

*M. leptophylla* Pax & Hoffm., taxon 74  
→ Rogers 467, 1 sheet

Set 9 for distribution *total = 18* MICH

M. *esculenta* Crantz, taxon 1  
Rogers 51, 1 sheet

M. *pringlei* Watson, taxon 2  
Rogers, Appan & Rogers 528, 2 sheets

M. *aesculifolia* (HBK) Pohl, taxon 4  
✓ Rogers 510, 1 sheet  
✓ Rogers 515, 1 sheet  
✓ Rogers 520, 1 sheet  
✓ Jancey 324, 1 sheet

✓ M. *oaxacana* Rogers & Appan, taxon 6  
Rogers 506, 1 sheet

✓ M. *chlorosticta* Standley & Goldman, taxon 7  
Rogers 512, 1 sheet

✓ M. *rhomboidea*, ssp. *rhomboidea*, taxon 10a  
Rogers 508f, 1 sheet

✓ M. *subspicata* Rogers & Appan, taxon 11  
Rogers, Appan & Rogers 526, 1 sheet

✓ M. *michaelis* McVaugh, taxon 14  
Rogers 513, 1 sheet

✓ M. *grahami* Hooker, taxon 24  
Rogers & Godfrey 499, 1 sheet

✓ M. *pilosa* Pohl, taxon 26  
Rogers 373, 1 sheet

✓ M. *anomala*, ssp. *pavoniana*, taxon 62e  
Rogers 430, 1 sheet  
✓ Rogers 435, 1 sheet

✓ M. *leptophylla* Pax & Hoffm., taxon 74  
Rogers 467, 1 sheet

✓ M. *caerulescens*, ssp. *caerulescens*, taxon 97a  
Rogers 397, 1 sheet

Set 10 for Distribution - total = 15 M (Munich)

- 1. *M. esculenta* Grantz, taxon 1  
Rogers 51, 1 sheet
- M. pringlei* Watson, taxon 2  
Rogers, Appan & Rogers, 528, 2 sheets
- M. aesculifolia* (HBK) Pohl, taxon 4
  - ✓ Rogers 504, 1 sheet
  - ✓ Rogers 510, 1 sheet
  - ✓ Jancey 324, 1 sheet
- M. oaxacana* Rogers & Appan, taxon 6
  - ✓ Rogers 506, 1 sheet
- ✓ *M. chlorosticta* Standl. & Goldm. taxon 7  
Rogers 512, 1 sheet
- M. subspicata* Rogers & Appan, taxon 11
  - ✓ Rogers, Appan & Rogers 526, 1 sheet
- ✓ *M. michaelis* McVaugh, taxon 14  
Rogers 513, 1 sheet
- ✓ *M. grahami* Hooker, taxon 24  
Rogers & Godfrey 499, 1 sheet
- ✓ *M. pilosa* Pohl, taxon 26  
Rogers 373, 1 sheet
- M. anomala*, ssp *pavoniana*, taxon 62e
  - ✓ Rogers 430, 1 sheet
  - ✓ Rogers 435, 1 sheet
- ✓ *M. leptophylla* Pax & Hoffm., taxon 74  
Rogers 467, 1 sheet

Set 11 for distribution

total = 15 - S

*M. esculenta* Granta, taxon 1  
Rogers 51, 1 sheet

*M. aesculifolia* (HBK) Pöhl, taxon 4  
✓ Rogers 504, 1 sheet  
✓ Rogers 510, 1 sheet  
✓ Jancey 327, 2 sheets

*M. oaxacana* Rogers & Appan, taxon 6  
✓ Rogers 506, 1 sheet

*M. chlorosticta* Standl. & Goldm. taxon 7  
✓ Rogers 512, 1 sheet

*M. rhomboidea*, ssp. *rhomboidea*, taxon 10a  
✓ Rogers 508e, 1 sheet

*M. subspicata* Rogers & Appan, taxon 11  
✓ Rogers, Appan & Rogers 526, 1 sheet

*M. michaelis* McVaugh, taxon 14  
✓ Rogers 514, 1 sheet  
✓ Rogers 513, 1 sheet

*M. grahami* Hooker, taxon 24  
✓ Rogers, Thieret & Reese 496, 1 sheet

*M. anomala* ssp. *pavoniana*, taxon 62e  
✓ Rogers 430, 1 sheet  
✓ Rogers 435, 1 sheet

*M. leptophylla* Pax & Hoffm. taxon 74  
✓ Rogers 467, 1 sheet

Set 12 for distribution

total = 13 - A11

M. esculenta Crantz, taxon 1

→ Rogers 51, 1 sheet

M. aesculifolia (HBK) Pohl, taxon 2

→ Rogers 504, 1 sheet

→ Rogers 510, 1 sheet

→ Jancey 327, 2 sheets

→ Jancey 334, 1 sheet

M. chlorosticta Standl. & Goldm. taxon 7

→ Rogers 512, 1 sheet

M. subspicata Rogers & Appan, taxon 11

→ Rogers, Appan, & Rogers 533, 1 sheet

M. michaelis McVaugh, taxon 14

→ Rogers 513, 1 sheet

→ Rogers 514, 1 sheet

M. grahani Hooker, taxon 24

→ Rogers, ~~Appan~~ Thieret & Reese 496, 1 sheet

M. anomala ssp pavoniana, taxon 62e

→ Rogers 430, 1 sheet

→ Rogers 437-c, 1 sheet

Set 13 for distribution *total=9* SP

M. chlorosticta Standl & Goldm. taxon 7  
✓ Rogers 512, 1 sheet

M. aesculifolia (HBK) Pohl, taxon 4  
✓ Jancey 323, 1 sheet  
✓ Jancey 327, 1 sheet  
✓ Jancey 334, 1 sheet

M. subspicata Rogers & Appan, taxon 11  
✓ Rogers, Appan & Rogers 533, 1 sheet

M. michaelis McVaugh, taxon 14  
✓ Rogers 513, 1 sheet

M. grahami Hooker, Taxon 24  
✓ Rogers, Thieret & Reese 496, 1 sheet

M. anomala ssp pavoniana, taxon 62e  
✓ Rogers 430, 1 sheet  
✓ Rogers 437-c, 1 sheet

set 14 for distribution - total 10 - B/M

- M. aesculifolia (HBK) Pohl, taxon 4
  - ✓ Rogers 504, 1 sheet
  - ✓ Rogers 520, 1 sheet
  - ✓ Jancey 326, 1 sheet
  - ✓ Jancey 335, 1 sheet
  
- M. chlorosticta Standl. & Goldm. taxon 7
  - ✓ Rogers 512, 1 sheet
  
- M. subspicata Rogers & Appan, taxon 11
  - ✓ Rogers, Appan, & Rogers 533, 1 sheet
  
- M. michaelis McVaugh, taxon 14
  - ✓ Jancey 330, 1 sheet
  
- M. grahami Hooker, taxon 24
  - ✓ Rogers, Thieret & Reese 496, 1 sheet
  
- M. anomala ssp. pavoniana, taxon 62e
  - ✓ Rogers 430, 1 sheet
  - ✓ Rogers 437-c, 1 sheet

Set 15 for distribution

total = 9 - P

*M. aesculifolia* (HBK) Pohl, taxon 4

✓ Rogers 504, 1 sheet

✓ Jancey 324, 1 sheet

✓ Jancey 334, 1 sheet

*M. oaxacana* Rogers & Appan, taxon 6

✓ Rogers 507, 1 sheet

*M. chlorosticta* Standl. & Goldm. taxon 7

✓ Rogers 512, 1 sheet

*M. subspicata* Rogers & Appan, taxon 11

✓ Rogers, Appan & Rogers 533, 1 sheet

*M. michaelis* McVaugh, taxon 14

✓ Jancey 330, 1 sheet

*M. anomala*, ssp. *pavoniana*, taxon 62e

✓ Rogers 430, 1 sheet

✓ Rogers 437-c, 1 sheet

Set 16 for distribution

total 8 UC

*M. aesculifolia* (HBK) Pohl, taxon 4

→ Rogers 504, 2 sheets

→ Jancey 323, 1 sheet

→ Jancey 334, 1 sheet

→ *M. chlorosticta* Standl. & Godd. taxon 7

Rogers 512, 1 sheet

*M. subspicata* Rogers & Appan, taxon 11

→ Rogers, Appan & Rogers 533, 1 sheet

*M. tomatophylla* Standl. taxon 15

→ Rogers 517, 1 sheet

*M. anomala* ssp *pavoniana*, taxon 62e

→ Rogers 431, 1 sheet

Set 17 for distribution

total 6 ARIZ

*M. aesculifolia* (HBK) Pohl, taxon 4

✓ Jancey 322, 1 sheet

✓ Jancey 334, 1 sheet

✓ Jancey 335, 1 sheet

*M. chlorosticta* Standl. & Goldm. taxon 7

✓ Rogers 512, 1 sheet

*M. tomatophylla* Standl. taxon 15

✓ Rogers 517, 1 sheet

*M. anomala*, ssp. *pavoniana*, taxon 62e

✓ Rogers 431, 1 sheet

Set 18 for distribution

total 4 - MG

*M. aesculifolia* (HBK) Pohl, taxon 4

✓ Jancey 325, 1 sheet

✓ Jancey 334, 1 sheet

*M. chlorosticta* Standl. & Goldm. taxon 7

✓ Rogers 512, 1 sheet

*M. anomala*, ssp. *pavoniana*, taxon 62e

✓ Rogers 431, 1 sheet

Set 19 for distribution *total 4 - DAV.*

M. aesculifolia (HBK) Pohl, taxon 4

✓ Jancey 321, 2 sheets

✓ Jancey 335, 1 sheet

M. anomala, ssp. pavoniana, taxon 62e

✓ Rogers 431, 1 sheet

Set for gift to Mexican National Herbarium - total 23

Dr. Arturo Gomez Pompa  
Instituto Biologia  
Ciudad Universitaria  
Apartado Postal 29817  
Mexico 16, D.F.  
Mexico

- M. esculenta Crantz, taxon 1  
→ Rogers 523, 1 sheet  
↘ Rogers 524, 1 sheet
- M. pringlei Watson, taxon 2  
→ Rogers, Appan & Rogers 528, 1 sheet
- M. aesculifolia (H.B.K.) Pohl, taxon 4  
↘ Rogers 510, 1 sheet  
↘ Rogers 520, 1 sheet  
↘ Rogers 521, 1 sheet  
→ Jancey 321, 1 sheet  
→ Jancey 322, 1 sheet  
→ Jancey 334, 1 sheet  
→ Jancey 335, 1 sheet
- M. oaxacana Rogers & Appan, taxon 6  
↘ Rogers 505, 1 sheet (isotype)  
↘ Rogers 507, 1 sheet
- M. chlorosticta Standley & Goldman, taxon 7  
→ Rogers 511, 1 sheet
- M. angustiloba (Torr.) M. Arg., taxon 9  
→ Rogers 519, 1 sheet
- M. rhomboidea ssp. rhomboidea, taxon 10a  
→ Rogers 508i, 1 sheet
- M. subspicata Rogers & Appan, taxon 11  
→ Rogers, Appan and Rogers 525, 1 sheet  
→ Rogers, Appan and Rogers 529, 1 sheet (isotype)  
→ Rogers, Appan & Rogers 533, 1 sheet
- M. caudata Greenman, taxon 13  
↘ Rogers 509, 2 sheets
- M. michaelis McVaugh, taxon 14  
→ Rogers 514, 1 sheet
- M. tomatophylla Standley  
↘ Rogers 516, 1 sheet
- M. carthaginensis (Jacq.) M. Arg., taxon 36  
↘ Rogers 494, 1 sheet

Distribution info

CU

- 19 - None
- 20 - None
- 21 - in savanna
- 22 A - alt ca to 120 m
- 22 B - growing in exposed and dry spots on rocks  
overlying rocks. frequent in large  
granitic outcrops. Frequent alt ca to 80 m
- 22 C - None
- 23 - None
- 24 - to 1500 m
- 25 - None
- 26 - Common in secondary woodlands, along  
stream banks, in sandy loam soils, among  
rocky outcrops.
- 26 - to ca 1500 m. in gallery forests on  
steep slopes.
- 27 - None
- 28 - None
- 29 - None
- 30 - ca 600 m. head of Beke river.
- 31 - 1250 m.
- 32 - None.
- 33 - None.
- 34 - to 1000 m.
- 35 - A. in woodlands and thickets to 1500 m.
- 36 - xerophytic <sup>shrub</sup> on limestone frequent  
in dry open places  
thickets by the sea coast
- ~~37 -~~

37- DJR colln 495. along margins of dry stream beds in dead woods forest, transition zone into the llanos.

38. none

39 1000 m.

40. none.

41 - ~~none~~ 750 m. Gallery forest and margins with cerrado.

42 - 1000 m.

43 - none

44 - none

45 - none.

46 - a - 1000 m. Common in burned over cerrado.

46 b " " "

47 - 1000 m.

48. 1000 m.

49 - 1000 m, rocky slopes, and sandstone summits.

50 - Gallery forest and adjacent cerrado, 1000 m.

51 - disturbed forest slopes ca 800 m.  
gallery and gallery margin.

52 - none.

53 - none.

54 - none

55 - among rocks ca 1000 m.

56 - 1000 m.

57 A sandstone summits <sup>top</sup> and slopes ~~at~~ 1000 m - 14000

~~58~~ 57 B - "

Para

6.

rib

Paraguay

57C "

57D none

58 none

59 NB rocky cerrado, 'canga' soil ca 1000 m

60 steep sandstone slopes 14,000 m

61 - fragment on rocky ridge and in savanna  
< 500 m.

62 gallery forest and creek margins, lower slopes  
disturbed gallery forest, forested rocky slopes  
~~to~~ 300-1000 m. savanna, flat country

63 none

64 - none

65 - none

66 - to 1000 m to 750 m

67 "

68 in agraste of caatinga

69 - none

70 - none

71 - none

72 - none

73 - common in second-growth and glades to ca 500 m  
in shaded thickets on river bank

74 - in second-growth low vegetation on the outskirts  
of forest close to the river banks to 1000 m

75 - rocky slopes in clearings

76 - none

Pera  
Malt ✓  
Giv ✓  
BF ✓  
P. G. ✓  
S.P. ✓  
Perry ✓  
Pera  
Cuzco  
A

- 77- none serrado and low woods on sandstone slopes 1150 m
- 78 none
- 79- Cerrado and low woods on sandstone slopes 1150 m
- 80 - none
- 81 - on rocky banks 1000 m 1250 m
- 82 - none
- 83 - outcrops and rocky slopes 1250 m
- 84 - none
- 85 - none
- 86 ca 1000 m
- 87 - among cerrado grasses < 400 m
- 88 - none
- 89 - cerrado < 400 m
- 90 creek margins and adjacent rocky slopes 1000 m

Para  
M. G. ...  
Pah  
R. Jam  
Sao Paulo  
Pereira

Anna Ferr  
Para  
Bah  
Florianopol  
Planu  
Ceara  
Perm  
Plate  
Cari  
Bah  
Fl. G.  
Rio  
Pereira

- 91 none
- 92 - none
- 93 - Cerrado 1000 m
- 94 - none
- 95 - none
- 96 - gallery forest, margin of g forest with cerrado, in cerrado, rocky slopes in gallery shade, cut over gallery forest etc 500-1000 m usually
- 97 none
- 98 none