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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.

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
~~AGRICULTURAL RESEARCH SERVICE~~

Plant Science Research Division

NATIONAL ARBORETUM

ADDRESS REPLY TO:  
UNITED STATES NATIONAL ARBORETUM  
WASHINGTON, D.C. 20002

July 19, 1971

Mr. David J. Rogers  
Professor of Biology  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

Be nice to have your study set of Manihot. Enclosed are 16 government franks you may use to send the specimens. I assume all of the material is fully documented and labeled.

For income purposes, I think you would be safe to value the specimens at thirty-five cents each. We have never paid more than a quarter each for specimens, but specimens do have a greater value than that.

All is well here and it would be nice to see you on your next trip to Washington.

Sincerely,

*Fred*

Frederick G. Meyer  
Research Botanist  
In Charge of the Herbarium

Enclosure:  
Government franks

BRITISH MUSEUM (NATURAL HISTORY)

Cromwell Road,

London, S.W.7

Telegrams: NATHISMUS, LONDON, S.W.7

15th December, 1970.

RR/SAR

Professor David J. Rogers,  
Department of Biology,  
University of Colorado,  
Taximetrics Laboratory,  
Armory 101,  
Boulder,  
Colorado 80302,  
U.S.A.

Dear Professor Rogers,

Our Loan No. 1641 (98 specimens  
December 1970. I would be most  
loan as soon as possible or make  
with an assurance that the study  
is still being actively pursued.

May I remind you that the period for which  
of Manihot) was extended expires on 31st  
grateful if you could either return the  
a formal application for an extension,  
for which the specimens were borrowed in

Sincerely,

Yours sincerely,

Botany.

R. Ross,  
Keeper of the

June 1, 1971

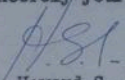
Prof. Dr. H. Merxmüller  
Director  
Botanische Staatssammlung  
8000 München 19  
Menzinger Strasse 67  
GERMANY

Dear Dr. Merxmüller:

Thank you for your recent notice of specimen loans outstanding and charged to the New York Botanical Garden. Regarding your loan II/81-82~~7~~ consisting of 61 sheets of Manihot, made to the Garden on 22 August 1961, Dr. David J. Rogers is now employed at the University of Colorado, and, as I believe we requested permission for this material to be transferred there, your notice has been forwarded for Dr. Rogers' attention. I trust you will hear from him in due course.

As to the portion of your loan I/18-19/- still here at the Garden (81 sheets of Clusia and Tovomitia), you may be assured that Dr. Maguire is actively pursuing his monographic studies on the genera concerned and requests your kind permission to retain this material for a further short period.

Sincerely yours,

  
Dr. Howard S. Irwin  
Head Curator

HSI:hr  
cc: Dr. David J. Rogers  
Department of Botany  
University of Colorado  
Boulder, Colorado

- Taxonomy Laboratory

August 8, 1966

Dr. Charles T. Mason  
Department of Botany  
University of Arizona  
Tucson, Arizona 85721

Dear Dr. Mason:

May I please have on loan all the specimens representing the genus Manihot in your herbarium. I am particularly concerned to see those from Arizona, found in various mountainous regions of the southern part of the state. There are several collections from the Santa Catalina, Santa Rita, Rincon, and Baboquivari Mts., but most of the specimens I have seen are fragments, and I want to know more of these before working up Manihot in a monograph.

Perhaps some of the specimens of interest are filed under Janipha manihot. The specific epithets most likely to be encountered are M. angustiloba, M. carthaginensis, M. isoloba, M. mexicana, M. davisiae, and M. chlorosticta. I will be happy to see any other Manihot material you may have as well.

Would you also be kind enough, if you have acquaintance with the areas mentioned above, to fill me in on the general ecology of the regions where these plants have been collected. What about rainfall patterns? When are these plants liable to be in flower and/or fruit?

If you have any graduate students working on the floras of these areas, perhaps you might ask them to be on the lookout for more material of these apparently rather local plants. I would be happy to assist financially in any way if students could make collections of Manihot for me.

I trust this is not too much of a burden. At any rate, I will be happy to see the specimens in your collection.

Sincerely,

David J. Rogers  
Professor of Botany

DJR:ch

- Taxonomy Laboratory

August 22, 1966

Dr. Charles T. Mason, Jr.  
Herbarium  
College of Agriculture  
The University of Arizona  
Tucson, Arizona 85721

Dear Dr. Mason:

I am pleased to acknowledge receipt of the 40 specimens of Manihot which arrived in good shape last week. These are excellent materials and will aid me considerably in the classification of the species in that area. Thank you for your prompt attention to my request.

Sincerely yours,

David J. Rogers  
Professor of Botany

DJR:ch



THE UNIVERSITY OF ARIZONA  
TUCSON, ARIZONA 85721

HERBARIUM  
COLLEGE OF AGRICULTURE

AUG 19 1966

August 16, 1966

Dr. David J. Rogers  
Taxonomy Laboratory  
Department of Botany and  
Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

Dear Dr. Rogers:

By insured parcel post we have sent 40 specimens of Manihot, including 2 types. I hope you find this material of value. We will appreciate your annotation of our specimens and will look forward to receiving a reprint of your work when it is published.

Yours truly,

Charles T. Mason, Jr.,  
Curator of the Herbarium

CTM:lh

LOAN No. 1641  
DATE DISPATCHED Aug. 20th, 1964.



DEPARTMENT OF BOTANY  
BRITISH MUSEUM  
(NATURAL HISTORY)  
CROMWELL ROAD  
LONDON S.W.7  
ENGLAND

Specimens of Manihot  
from America  
on loan to The Director,  
The New York Botanical Garden  
Bronx Park,  
Bronx, New York, U. S. A.  
For the attention of Dr. D. J. Rogers

TOTAL SPECIMENS 98  
TOTAL SHEETS 100

Arsens	Hinton	Spruce
5272	4698	3604
Blanchet	6188	4287
2553	6468	sn.
3324 2 sheets	6264	sn.
Fiebrig	7044	Steinbach
4360	Holm & Iltis	6709
4669	250	Tondus
Gardner	Hostmann)	13977
1837	891	Townsend & Barber
2437	Sagot	404
3441	1082	Triana
3442 2 sheets	Jurgensen	289
3443	582	3614
3446 2 sheets	Killip & Smith	3620 a
Gaumer	14032	3620 c
1142	Killip & Garcia	3620 d
Glaziou	33395	5805
13201	Klug	5808
14243	2662	sn.
Hassler	3861	Tweedie
1669	Krukoff	sn.
2675	1649	sn.
3466	6311	Venturi
5132	Lemmon	9880
5172	sn.	10006
5413 a	sn.	Williams
5413 b	Mexia	233
5516	4153	361
5517	Meyer	Wright
5649	4805 2 sheets	sn.
5730	Palmer	
6756	142	
7955	156	
8121	224	
7976	233	
9525	1027 a	
10704	Pavon	
10711 a	sn.	
10711	sn.	
10741	sn.	
Hayes	Robert	
717	420	
Hinton	Seemann	
940	sn.	
1207	Sello	
4220	1110	
4349	Schott	
4374	518	
4437	Schreiter	
4467	9068	
4555	Smith	
	365	

LOAN No. 1641.  
DATE DISPATCHED Aug, 20<sup>th</sup>. 1964.



DEPARTMENT OF BOTANY  
BRITISH MUSEUM  
(NATURAL HISTORY)  
CROMWELL ROAD  
LONDON S.W.7  
ENGLAND

Specimens of Manihot  
from America  
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5516	4153	361
5517	Meyer	Wright
5649	4805 2 sheets	sn.
5730	Palmer	
6756	142	
7955	156	1 sheet
8121	224	
7976	233	
9525	1027 a	
10704	Pavon	
10711 a	sn.	
10711	sn.	
10741	sn.	
Hayes	Robett	
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	365	

BRITISH MUSEUM (NATURAL HISTORY)

Cromwell Road,

London, S.W.7

Telegrams : NATHISMUS, LONDON, S.W.7

RR/CJT

18 December 1969

Professor David J. Rogers  
Department of Biology  
University of Colorado  
Taximetrics Laboratory,  
Armory 101  
Boulder, Col. 80302  
U. S. A.

Dear Professor Rogers

At their recent meeting the Trustees granted an extension of one year on our Loan No. 1641 of 98 specimens of Manihot, that is until the end of December 1970.

Yours sincerely



R. Ross  
Keeper of Botany

December 30, 1969

Sir George Taylor, Director  
Royal Botanic Gardens  
Kew, Richmond, Surrey, England

Dear Sir George:

I must deeply apologize for my failure to observe proper protocol and good herbarium practise with respect to my loan of the specimens of Manihot. I also recognize the value of the collection to your continued work, and that 8 years is a time beyond which, under normal circumstances, any investigator should keep such a valuable set of materials. Perhaps the following will be somewhat explanatory of my actions with respect to this loan, though I cannot expect they will fully justify them.

I have moved twice since I obtained the loan, from the New York Botanical Garden to Colorado State University, Ft. Collins, Colo., and from Ft. Collins to the University of Colorado, Boulder, in 1967. Each of these moves necessarily entailed an interruption in the normal flow of work. Each move was dictated by some opportunity to further my systematic work.

I believe that the present situation gives the best opportunity for successful systematic monographic work. We have adequate facilities here at Boulder, under the care and direction of Dr. William Weber, the Curator of Botany, the University of Colorado Museum. The specimens are housed in proper steel herbarium cases, and given the best of curatorial care.

Within the next six months, my assistant and I will have completed the total study of Manihot. At the end of that time, we will be able to provide the best, modern, species determination possible, which at the moment we can provide only for that group of species whose distribution is North America (from Panama north). I therefore earnestly request that you extend the period of the loan until June 30, 1970, at which time I guarantee the return of the loan, fully annotated. The basis for my request is the following explanation.

I have found the suite of characters which give us the opportunity to make adequate differentiation into species within the last six months, although I have tried assiduously to discover the properly weighted characters during the whole period of the loan. I will not burden you with an explanation which says that the genera of the Euphorbiaceae, in general, provide some of the most difficult problems for the taxonomist, nor with the disastrous fact that the specimens which formed the basis for the last study of the genus were destroyed in Berlin in World War II. During the tenure of this loan, it has been absolutely essential to retrace the steps of many of the classical collectors in both North and South America, to rediscover some of the species represented only by

fragments or photographs of types, and to give a more adequate picture of the geography and ecology of the species within this genus. These field studies are now complete, and the work proceeding at an accelerated pace.

Not the least of my delay has been caused by an allied, but very significant effort to develop computer-assisted programs to aid the taxonomist in studies of complex genera. I have been the leader of a research team to develop these programs, always with the principle in mind that the computer must be an aid to the taxonomist, and not in any sense a substitute for him. It has taken time to discover the appropriate methods to use the computing machine, and I am sure that you are aware of the large controversy which has been caused by over-zealous computer specialists who have made claims which are clearly not justified by the results they expound. Only by testing our programs with actual cases in taxonomy may we indicate the power and accuracy of these programs. To accomplish such a task, we have not only employed the Manihot materials, but we have also asked other systematists to aid in this work. One of our programs has recently been thoroughly tested, and found useful, on a sample of the Crotolaria study, under Mr. R. M. Polhill's direction, wherein a student at Oxford, Mr. F. A. Bisby made a careful analysis of the Crotolaria characters. I have not heard directly from Mr. Polhill, but his contact with Mr. Bisby has been continuous, and I think the results of this study are satisfying from the taxonomist's point of view.

Some of the other taxonomic studies that have been done by English botanists, using our programs, are Mr. William Stearn of the British Museum (Natural History), who is now in the final stages of publication of a joint effort on the classification of the genus Oplonia (Acanthaceae), and Dr. G. T. Prance, (with Mr. Frank White and me) on the genera of the Chrysobalanaceae. The results of the latter study have recently appeared in the New Phytologist (vol. 68: 1203-1234. 1969).

While I cannot plead that these studies have any direct bearing upon the loan, I suggest that they do have a bearing on the filed, and that they contribute to an advancement which will give taxonomists a powerful set of tools to accomplish tasks which to date have been too large and difficult. In the case of Manihot, we have tested the suite of programs, and have produced a monograph of the North American species using the programs with great effectiveness. The completion of the total work, as I said, will require a much shorter period.

With these explanations, and again my apologies for breach of herbarium protocol, I request that you consider the extension of the Manihot loan until June 30, 1970.

Sincerely yours,

David J. Rogers  
Professor of Biology

cc. to Dr. William Weber.

Please address any reply to  
THE DIRECTOR  
and quote:  
Your reference:

ROYAL BOTANIC GARDENS  
Kew, Richmond, Surrey, England  
Telegrams: Kewgar, Richmond, Surrey  
Telephone: 01-940 1171

10th December, 1969

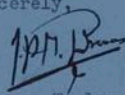
Dear Dr. Rogers,

I am writing to you in connection with a large loan of *Manihot* spp. which was sent to you under our reference H3222/61, and a smaller supplementary loan under H2922/64, when you were at the New York Botanic Garden, and which was transferred to Fort Collins in 1965. Altogether 138 sheets including 64 types were involved, which represents quite a considerable proportion of our representation of the genus.

We have written on this matter to Dr. Irwin in New York, and Prof. Harrington at Fort Collins, and they have advised us of your present address. Prof. Harrington said that he had no knowledge of this loan, but presumes that it is still in your possession.

We are earnestly desirous of having this material returned as soon after Christmas as possible. Eight years is too long to be without such an important part of our reference collection, particularly as its absence is now hampering our work at Kew.

Yours sincerely,

  
Sir George Taylor  
Director

Dr. David J. Rogers,  
Taximetrics Laboratory,  
Department of Biology,  
Armory 101,  
University of Colorado,  
Boulder,  
Colorado 80302,  
U.S.A.

IMC.

December 3, 1969

Sir George Taylor, Director  
Royal Botanical Gardens  
Kew, Richmond  
Surrey, England

Dear Sir George Taylor:

This is in reply to your letter of inquiry of November 14, 1969 concerning your loans H382/61 and H2922/64 of herbarium sheets. Dr. David J. Rogers probably brought this loan from the New York Botanical Garden to this institution but stored the material in his laboratory in a separate building. A few years ago he moved his organization to Colorado University and undoubtedly took the specimens along with him. His present address is:

Dr. David J. Rogers  
Taxometrics Laboratory  
Biology Department, Armory 101  
University of Colorado  
Boulder, Colorado 80302

I am now retired but do not recall any such loan on our official list of the department herbarium. The present curator here is Dr. Wm. Klein.

Yours sincerely,

H. D. Harrington  
Emeritus Professor of Botany

HDH jj

cc:  Dr. Wm. Klein  
 Dr. D. J. Rogers

Dave:  
Regards to everyone including  
your fine family.

Harold

Please address any reply to

THE DIRECTOR

and quote: H 3282/61 & H2922/64

Your reference.

*R. Klein*

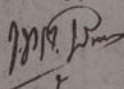
ROYAL BOTANIC GARDENS  
Kew, Richmond, Surrey, England  
Telegrams: Kewgar, Richmond, Surrey  
Telephone: 01-940 1171

14th November, 1969

Dear Professor Harrington,

I am writing to you to enquire about a loan of 138 sheets of South American *Manihot* spp. (incl. 64 types) which we sent to New York Botanic Garden in August 1961 (our ref. H 3282/61) and in July 1964 (our ref. H 2922/64) for Dr. David J. Rogers, and which was transferred to your institution in July 1965. Do you still have this loan at Fort Collins, or has it been returned to New York? If the former is the case, then we should appreciate its immediate return, as our work here is being held up in consequence of our not having had access to this material for over 8 years.

Yours sincerely,



Sir George Taylor  
Director

Professor H.D. Harrington,  
Herbarium of Colorado State University,  
Fort Collins,  
Colorado,  
UNITED STATES OF AMERICA

PMH

October 28, 1969

Ref.: Loan No. 1641

Manihot

Mr. R. Ross  
British Museum (Natural History)  
Cromwell Road,  
London, S.W. 7

Dear Mr. Ross:

I am remiss not to have answered your inquiry concerning the loan (#1641) of Manihot specimens sooner.

We are attempting to arrange responsibility for all loans to Colorado institutions through the Museum of the University of Colorado, Boulder, Dr. Wm. Weber, Curator of Botany. This explains some of the delay. While Dr. Weber is in overall charge, I am clearly responsible for the individual loan, its proper care and return.

I would be pleased if you could extend the terms of this loan for one full year from this date, for the following reasons:

Only the material for the North American species of Manihot have been fully worked, leaving the complex of species of South America still to be done. However, much of the "spade work" has been accomplished, and one year more will be sufficient to incorporate the data from the South American material.

Specimens from the British Museum, and those from other major herbaria in Europe and the United States, are being used as test-cases to determine the value of computer-aided programs for systematic biology. It is absolutely essential, in my estimation, to test any computer program with actual studies before claiming that the computer program have any value for taxonomic work. The Manihot material makes an excellent test for computer programs being developed in our laboratory. (Please ask Mr. Stearn for an evaluation of our computer programs with which he is familiar.) We feel that we have nearly completed a series of computer programs which will give the taxonomist assistance in several aspects of his work: (1) an information-retrieval system to keep the files of information on specimens; (2) a character-analysis program to test the value of taxonomic characters; and (3) a clustering program to aid the taxonomist in the processes of classification.

The development of these programs clearly has delayed our primary task of studying the Manihot material you have been good enough to loan me, but I trust that the reasons for requesting an extension are sufficiently valid to permit your favorable response.

Sincerely yours,

David J. Rogers  
Professor of Biology

BRITISH MUSEUM (NATURAL HISTORY)

Cromwell Road,

London, S.W.7

Telegrams: NATHISMUS, LONDON, S.W.7

RR/CJT

1st October, 1969

Professor of Botany,  
Colorado State University,  
Fort Collins, Colorado,  
U. S. A.

Dear Sir,

Our Loan No. 1641 of 98 specimens of Manihot from America mounted on 100 sheets was originally sent to the New York Botanical Garden for the attention of Dr. D.J. Rogers. In July 1965 it was transferred to Fort Collins. The material has now been on loan for a total period of five years, although I appreciate that it has not been at your institution for this time. As our Trustees are reluctant to authorise extensions beyond this limit, I should be grateful if you would return the specimens.

If you have some special reason for wishing to retain the specimens for a further period, perhaps you would let me know it. I can then ask the Trustees' permission for an extension, which they may grant in exceptional circumstances. I myself have no power of extending loans beyond five years.

Yours faithfully,



R. Ross  
Keeper of Botany

*Jane -  
You can respond to this better than I -  
Regards  
D. Ward*

## RECEIPT FOR SPECIMENS SENT ON LOAN

(To be sent with the loan, in duplicate, one copy to be returned, duly signed, the second to be retained by the borrowing department. Specimens requested and included are mentioned in Col. 1; those for any reason not available for loan are mentioned in Col. 2.)

TO : The Director,  
Royal Botanic Gardens,  
Kew, Surrey, Richmond  
England.

From : Univ. of Colorado,  
BOULDER  
COLORADO  
USA. 80302

Ref. : H809/70

- I have received on loan, undamaged in transit, the specimens mentioned below in column 1.
- I accept responsibility for their safe custody and will return them to you adequately packed ~~not later than~~ *at my earliest convenience.*
- I undertake to ensure that the relevant provisions of your "Regulations governing loans from the Herbarium" are observed while the specimens are in my care.

Signed \_\_\_\_\_

Date : \_\_\_\_\_

Official Designation \_\_\_\_\_

Number	Checked :	Date Despatched :	Date Returned :	Checked :
H. 809/70	<i>A. Ansell</i>	3. 3. 70		
For study by :		Packed by :—	Unpacked by :—	
<i>Dr. D. J. Rogers</i>		<i>E. Holland</i>		

1. Specimens included in this loan :—

*32 sheets of  
Brazilian  
manuscripts*

2. The following specimens are not available :—

## REGULATIONS GOVERNING LOANS FROM THE HERBARIUM

1. Specimens may be sent on loan to the head of an approved botanical establishment.
2. Requests for loans must be made to the Director by the head of a recognised botanical establishment, who will be expected to accept responsibility for the safe custody and return of the specimens.
3. Requests for loans should state the names of the workers on whose behalf they are made, together with the scope of the work contemplated.
4. Wherever possible, specimens required should be listed individually, to show (a) country of origin, (b) collector's name, (c) collection number.
5. Material preserved in liquid will be sent on loan only in exceptional circumstances; alternatively, reports of critical examinations of such material may be sent.
6. Specimens are normally sent on loan for a period of three to six months. It is requested, however, that loans be returned at the earliest opportunity, carefully packed to avoid damage in transit.
7. Specimens must not be removed from the establishment to which they were consigned.
8. Except during actual examination, type and other important specimens should remain in their red-bordered covers. Sheets must not be bent, folded or laid face downwards.
9. The dissection of portions of specimens is normally permitted. All dissected portions, including micro-preparations, must be placed in a suitable envelope attached to the herbarium sheet concerned.
10. If specimens be photographed, it is requested that a very small label, indicating the location and identification marks of the negative, be attached to the sheet.
11. *Determinavit* or *Confirmavit* slips, showing determination, signature and date, either printed or legibly written in ink, should be attached to every sheet before return to Kew. Relevant comments on such slips, in addition to the name of the plant, are welcomed, but colloquialisms such as "O.K." should be avoided. When specimens of more than one taxon or collection are mounted on one sheet, separate slips should be provided. Except for the distinction of the various elements of such mixtures, no marks should be made on the sheets and existing labels, notes, etc. must not be removed, covered, or in any way defaced. Ball-point pens should not be used for annotations.
12. Under no circumstances should self-adhesive cellulose tape be used on any herbarium sheet.

Please address any reply to  
THE DIRECTOR  
and quote: H 809/70  
Your reference:

ROYAL BOTANIC GARDENS  
Kew, Richmond, Surrey, England  
Telegrams: Kewgar, Richmond, Surrey  
Telephone: 01-940 1171

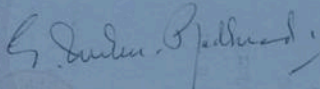
Dr D J Rogers  
Professor of Biology  
Division Chairman  
Project Director  
University of Colorado  
Boulder  
Colorado 80302  
USA

3.3.70

Dear Dr Rogers

I am sending to you under separate cover for naming 32 sheets of Manihot spp. collected during the Xavantina-Cachimbo Expedition and can send you duplicates of these should you so wish. We would appreciate a return of this loan at your earliest convenience since several botanists are awaiting determinations prior to publications of their findings.

Yours sincerely



Sir George Taylor  
Director

IEL

Armory 101

January 22, 1970

Dr. R.M.Harley  
Head of the American Section  
Royal Botanic Gardens  
Kew, Richmond, Surrey  
England

Dear Dr.Harley:

We are very thankful to have our request to Sir George Taylor, with respect to extension of the Manihot specimen loan, approved at your suggestion.

We will be pleased to name the Manihot specimens collected during the Xavantina-Cachimbo expedition. More material from Mato Grosso will be valuable in our study. Any additional field information (ecological, geographical or others) gathered during the expedition which you care to share with us will give us a better chance for a sound identification.

Thank you for your interest.

Sincerely yours,

David J. Rogers  
Professor of Biology  
Division Chairman  
Project Director

Please address any reply to  
THE DIRECTOR  
and quote: H 3282/61.  
Your reference:

ROYAL BOTANIC GARDENS  
Kew, RICHMOND, Surrey, England  
Telegrams: Kewgar, Richmond, Surrey  
Telephone: 01-940 1171

13th January, 1970

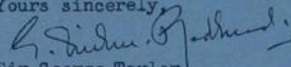
Dear Professor Rogers,

We have received your letter of 30th December in which you ask for an extension of the loan of Manihot specimens.

Dr. R. M. Harley, Head of the American Section, was particularly interested to learn of the progress of your studies on this very complicated genus, and is very anxious that your work should not be impeded by an untimely return of any of our specimens. In view of the importance of your work, we are prepared, therefore to extend the loan until 30th June, 1970 as you request.

At the same time, Dr. Harley wondered whether you would be prepared to name a collection of Manihot from Central Brazil. These are all specimens collected on the recent Xavantina-Cachimbo Expedition to the Mato Grosso and amount to approximately 35 numbers. We would, of course be glad to present your herbarium with a set of these or if you so wish, place them in a recognised herbarium of your choosing. Perhaps the material would be useful as an independent test of your classification.

Yours sincerely,

  
Sir George Taylor  
Director

Prof. D. J. Rogers,  
Department of Biology,  
Taximetrics Lab.,  
University of Colorado,  
Boulder,  
Colorado 80302  
U.S.A.

16 Aug. 1970

Sir George Taylor  
Director  
Royal Botanic Garden  
Kew, Richmond  
Surrey, England

Dear Sir George Taylor:

With reference to the Manihot specimens sent to us for identification (Please refer to your letter No. H.809/70 dated 3.3.70 ), our computer-aided analysis of the phenotypic data (as a part of our monographic studies of the genus Manihot ) indicates that the following collections possibly represent undescribed populations.

We would very much appreciate to have more materials (other sheets of these collections if any), field photographs, field notes etc. of these collections, if available.

Thank you for your time and attention.

Sincerely

Dr. S.G.Appan  
Research Associate

For Prof. David J. Rogers  
Professor of Biology  
Chairman, Divn. of Population Studies  
Project Director

SPECIMENS

Philcox, Ferreira, and Bertoldo 3283  
Harley, Souza, and Ferreira 10381  
Argent, Ramos, Richards, and Souza 6675  
Philcox and Ferreira 4542 and 3868  
Harley, Barroso et al 11404  
Philcox, Ramos and Souza 3105



REPUBLICA ARGENTINA  
SECRETARIA DE AGRICULTURA Y GANADERIA

I. N. T. A.  
Centro Nacional de Investigaciones Agropecuarias  
INSTITUTO DE BOTANICA AGRICOLA

CASTELAR  
F. N. D. F. S.

Castelar, 10 de marzo de 1969.-

The Herbarium  
Univ. of Colorado Museum  
Boulder, Colorado 80.302  
E.E.U.U.

Dear Mr. Rogers:

In a separate package I am sending you 26  
specimens of the genus Manihot.

Sincerely yours;

*Maevia N. Correa*

Dra. Maevia N. Correa  
Cuidadora del Herbario  
de Plantas Indígenas



REPUBLICA ARGENTINA  
SECRETARIA DE AGRICULTURA Y GANADERIA

I. N. T. A.  
Centro Nacional Investigaciones Agropecuarias  
INSTITUTO DE BOTANICA AGRICOLA

CASTELAR  
F. D. F. S.

Préstamo (*Loan*) Nº.: 378

Castelar, 6 de marzo de 1969.-

Sr. David J. Rogers  
Armory 101  
Univ. of Colorado  
Boulder, Colorado 80.302  
E.E.U.U.

**Reglamento - Rules**

Los préstamos se hacen en general por un período de 1 año.

*The loans are made for 1 year.*

Las determinaciones y observaciones deben hacerse en etiqueta especial y con tinta china.

*Identifications and observations should be made on special label and if possible with India ink.*

Se ruega en lo posible que los autores envíen al Instituto separatas de los trabajos donde se cita el material objeto del presente préstamo.

*Within possibilities the authors are requested to send to the Institute a reprint of the publication in which material concerned on loan has been cited.*

Los ejemplares abajo mencionados le son enviados a título de préstamo en 1 (one)... paquete(s). Le rogamos acusar recibo utilizando el duplicado de color aquí incluido.

*The below mentioned specimens are being sent to you on loan/in exchange/as a gift in 1 (one).... package(s). Please be so kind and acknowledge receipt using the inclosed coloured duplicate.*

*Maecia M. Conca*  
Director

Hb. General:

Envío de ejemplares de Herbario de la familia "Euphorbiaceae" los unicum en calidad de préstamo los duplicados en canje.

TOTAL: 26 ejemplares



REPUBLICA ARGENTINA  
SECRETARIA DE AGRICULTURA Y GANADERIA

I. N. T. A.  
Centro Nacional Investigaciones Agropecuarias  
INSTITUTO DE BOTANICA AGRICOLA

CASTELAR  
F. D. F. S.

Préstamo (*Loan*) N<sup>o</sup>.: 378

Castelar..... 6 de marzo..... de 1969.-

Sr. David J. Rogers  
Armory 101  
Univ. of Colorado  
Boulder, Colorado 80.302  
E.E.U.U.

Reglamento - Rules

Los préstamos se hacen en general por un período de 1 año.

*The loans are made for 1 year.*

Las determinaciones y observaciones deben hacerse en etiqueta especial y con tinta china.

*Identifications and observations should be made on special label and if possible with India ink.*

Se ruega en lo posible que los autores envíen al Instituto separatas de los trabajos donde se cita el material objeto del presente préstamo.

*Within possibilities the authors are requested to send to the Institute a reprint of the publication in which material concerned on loan has been cited.*

Hemos recibido en buen estado los ejemplares abajo mencionados; hemos tomado nota del reglamento y nos comprometemos a devolver el material en el término de 1 año.

*We have received, in good conditions, the below mentioned specimens. Those received on loan will be sent back within 1 year from today.*

.....  
Firma (*Signature*):

Hb. General:

Envío de ejemplares de Herbario de la familia "Euphorbiaceae" los unicum en calidad de préstamo, los duplicados en canje.

TOTAL: 26 ejemplares.

Castelar, 6 de marzo de 1969.-

Sr. David J. Rogers  
Armory 101  
Univ. of Colorado  
Boulder, Colorado 80.302  
E.E.U.U.

ENVIO DE EJEMPLARES DE HERBARIO DE  
LA FAMILIA "EUPHORBIACEAE"

UNICUM: D.

3317	Annunzio, D. ....	BAB. 55.748	Rojas, T. ....	BAB. 80.787	3324
3318	Jorgensen, P. ....	BAB. 31.062	Spegazzini, C. ..	BAB. 18.385	3316
3319	Jorgensen, P. ....	BAB. 34.947	Spegazzini, C. ..	BAB. 14.368	3310
3320	Lanfranchi, A.E. ...	327	Spegazzini, C. ..	BAB. 15.376	3311
3321	Lauro, G. ....	BAB. 66.533	Spegazzini, C. ...	BAB. 2351	3323
3314	Rojas, T. ....	BAB. 40.262	Venturi, S. ....	BAB. 40.656	3312
3315	Rojas, T. ....	BAB. 80.781	Venturi, S. ....	BAB. 40.657	3326
3322	s/c. ....	BAB. 64.592	Victoria, J. ...	BAB. 65.122	3325
			Zabala, S. ....	BAB. 61.930	3313

DUPLIUM:

3335	Dinelli, E. ....	BAB. 26.433	✓
3334	Esc. Nac. Agr. ....	BAB. 16.203	✓
3333	Jorgensen, P. ....	BAB. 34.585	✓
3332	Llamas A. de ....	BAB. 4731	✓
3331	Milano, V. ....	BAB. 80.627	✓
3330	Montes, J. ....	584	✓
3329	Spegazzini, P.L. ...	BAB. 16.407	✓
3328	Spegazzini, P.L. ...	BAB. 29.405	✓
3327	Spegazzini, P.L. ...	BAB. 29.069	✓

Son: 26 ejemplares

*Maevia M. Correa*  
Dra. Maevia N. Correa  
Curadora del Herbario de  
Plantas Indígenas

Termory 101

2 Junio 1969

Dra. Maevia N. Correa  
Curadora del Herbario de Plantas Indigenas  
Instituto de Botanica Agricola, CNIA  
Castelar, Argentina

Dear Dra. Correa:

This is to acknowledge receipt of all the specimens  
as per the enclosed list. They have been received in good  
order, and we thank you for sending them.

Sincerely yours,

David J. Rogers  
Professor of Biology

DJR:gm

UNIVERSITY OF CALIFORNIA, BERKELEY

JAN 7 1966

BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

DEPARTMENT OF BOTANY

BERKELEY, CALIFORNIA 94720

January 4, 1966

Dr. David J. Rogers  
Taxonomy Laboratory  
Department of Botany  
Colorado State University  
Ft. Collins, Colorado 80521

Dear David:

We are sending you the 120 sheets of  
Manihot (Euphorbiaceae) which you selected  
while here in Berkeley for the AAAS meetings.  
The sheets are being sent on loan, express,  
collect, and in 1 package.

We hope the material will truly prove  
useful to you.

Sincerely,

A handwritten signature in cursive script that reads "Lincoln Constance".

Lincoln Constance  
Director of Herbarium

*Come again!*

HERBARIUM OF THE UNIVERSITY OF CALIFORNIA  
BERKELEY, CALIFORNIA 94720  
U.S.A.

SHIPPING NOTICE

Date January 4, 1966

Dr. David J. Rogers  
Taxonomy Laboratory  
Department of Botany  
Colorado State University  
Fort Collins, Colorado 80521

Dear Dr. Rogers:

We are sending you, by express, collect, in 1 package....., the plants indicated below. Upon arrival of the shipment, kindly verify its contents and acknowledge receipt by signing and returning the orange duplicate sheet to us.

..... Exchange	..... Return of specimens sent for identification
..... For identification	..... Gift
..... Return of borrowed specimens	.....

Loan: No: 2728..... Loans are normally made for a period of six months, **except for type specimens, which must be returned within sixty days of receipt of the specimens.** When circumstances warrant, the loan period may be extended. Specimens should be returned by insured parcel post or by prepaid express. Except as noted above, all material of this loan should be returned at the same time.

Sincerely,

*Lincoln Constance*  
Lincoln Constance  
Director of the Herbarium

---

DESCRIPTION OF SPECIMENS

120 sheets Manihot (Euphorbiaceae), including 1 TYPE

UNIVERSITY OF CALIFORNIA, BERKELEY

BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO



SANTA BARBARA • SANTA CRUZ

DEPARTMENT OF BOTANY

BERKELEY, CALIFORNIA 94720

March 17, 1966

Dr. David J. Rogers  
Taxonomy Laboratory  
Department of Botany and Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

Dear Dr. Rogers:

Separately we are sending you three sheets of Manihot from Baja California, as detailed on the accompanying loan form for our loan No. 2755. Also enclosed with the shipment is an unmounted duplicate of my collection 4982, which is being sent to you as a gift. I am sorry that we do not have such material of all three collections available. If my collections prove to be M. angustiloba, they may well represent a new record for the peninsula of Baja California.

I will look forward to receiving your report on this material when you have had opportunity to study the entire group. If you wish, this loan may be returned to us with the larger loan of Manihot which you borrowed last year.

Sincerely,

A handwritten signature in cursive script that reads "Annetta Carter".

Annetta Carter  
Principal Herbarium Botanist

AC:aqh  
Enc.

HERBARIUM OF THE UNIVERSITY OF CALIFORNIA  
BERKELEY, CALIFORNIA 94720  
U.S.A.

SHIPPING NOTICE

Date March 17, 1966

Dr. David J. Rogers  
Taxonomy Laboratory  
Department of Botany and Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

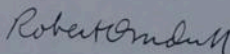
Dear Dr. Rogers:

We are sending you, by parcel post, prepaid, in 1 package, the plants indicated below. Upon arrival of the shipment, kindly verify its contents and acknowledge receipt by signing and returning the orange duplicate sheet to us.

..... Exchange	..... Return of specimens sent for identification
..... For identification	..... Gift
..... Return of borrowed specimens	.....

.....X..... Loan: No: 2755..... Loans are normally made for a period of six months, **except for type specimens, which must be returned within sixty days of receipt of the specimens.** When circumstances warrant, the loan period may be extended. Specimens should be returned by insured parcel post or by prepaid express. Except as noted above, all material of this loan should be returned at the same time.

Sincerely,



Robert Ornduff  
Assistant Curator of Seed Plants

---

DESCRIPTION OF SPECIMENS

Manihot from Baja California: 1 Sheet Carter 4982  
1 sheet Carter 5126  
1 sheet Hastings & Turner 64-355

(As a GIFT: unmounted duplicate of Carter 4982)

TRANSFERRING

## INVOICE OF SPECIMENS

(For RECORDS only)

Our Invoice No. B-7899 and B-8338CHICAGO NATURAL HISTORY MUSEUM  
FORMERLY FIELD MUSEUM OF NATURAL HISTORYChicago 5, Illinois, U.S.A. July 23 1965

Recommended \_\_\_\_\_

Approved \_\_\_\_\_

Authorized \_\_\_\_\_

First Class	<input type="checkbox"/>
Parcel Post	<input type="checkbox"/>
Express	<input type="checkbox"/>
Freight	<input type="checkbox"/>
Prepaid	<input type="checkbox"/>
Collect	<input type="checkbox"/>
Personally	<input type="checkbox"/>

Transferred from New York Botanical Garden  
~~PARCELPOST~~ Received \_\_\_\_\_  
Shipped \_\_\_\_\_ DATE \_\_\_\_\_To: Colorado State University  
Ft. Collins  
ColoradoAttn: Dr. David J. Rogers  
Dept. of Botany and Plant Pathology

The material listed below contained in \_\_\_\_\_ boxes will be ~~EXCHG~~ (sent) ~~EXCHG~~ as TRANSFER of \_\_\_\_\_ loan

1. gift	3. loan at your request	5. return of material borrowed by us	7. on loan	8. for identification
2. exchange	4. examination at our request	6. return of material sent for identification	9. Please see below:	

The New York Botanical Garden ~~has~~ been granted permission by this Museum to transfer to Colorado State University, the following material on loan to them from this Museum for study by Dr. David J. Rogers:

Invoice B-7899 110 specimens of ManihotInvoice B-8338 357 specimens of Manihot

467 Total

Return of this loan is expected before February of 1966. All material included in this transfer must be returned at one time. No part of such material may be transferred to any other institution or person without the written consent of the Chief Curator or the Director of this Museum.

(A copy of this TRANSFER notice has been sent to New York Botanical Garden.)

*This copy for Dr. Rogers.*To Consignee: \_\_\_\_\_  
Keep this copy for your filesReceived: in good condition  except as noted 

Signature \_\_\_\_\_

Date \_\_\_\_\_

FIELD MUSEUM  
OF NATURAL HISTORY

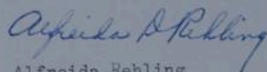
Dr. David J. Rogers  
Professor of Biology  
University of Colorado  
Boulder, Colorado 80302

Oct. 19, 1970

Dear Dr. Rogers:

The Museum is pleased to grant you a 6 month extension on the loans of the genus Manihot (B-7899 and B-8338) in order for you to complete your study. The loans will be due about the first of May.

Sincerely,



Alfreda Rehling  
Dept. of Botany

**CHICAGO NATURAL HISTORY MUSEUM**

FORMERLY FIELD MUSEUM OF NATURAL HISTORY  
ROOSEVELT ROAD AND LAKE SHORE DRIVE

CHICAGO, ILLINOIS 60605

July 23, 1965

Dr. David J. Rogers  
New York Botanical Garden  
Bronx Park, New York, N. Y. 10458

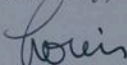
Dear David:

I have your letter of July 21, and you convinced us the specimens may be shipped on out to Colorado. A copy of the invoice is being sent to Dr. Harrington, one goes to Bassett, and there is one enclosed for you.

I take it that this all means that you are transferring out to Colorado, where you certainly can not get any *Manihot* to grow. We shall be happy to see the material all back in about a year and I suspect that you will also be happy to see it finished.

With my regards, I am,

Sincerely,



Louis O. Williams  
Chief Curator  
Department of Botany

LOW:stb  
Encl.

FIELD MUSEUM  
OF NATURAL HISTORY

---

September 29, 1970

Dr. D. J. Rogers  
Department of Botany  
Colorado State University  
Fort Collins, Colorado

Dear Dr. Rogers:

In checking over our overdue loan records, we find that  
467 herbarium sheets of Manihot are charged to you since  
1965, on our invoices B-7899 and B-8338.

If you have completed your study of this material, it will  
be appreciated if you will return it to us at this time.

If you need an extension of time on these loans, will you  
please let us know so that we may adjust our records?

Sincerely yours,

*Dorothy Gibson*

Dorothy Gibson  
Supervisor of the Herbaria

UNIVERSIDAD NACIONAL DE CORDOBA  
FACULTAD DE CIENCIAS EXACTAS, FISICAS Y NATURALES

MUSEO BOTANICO  
CASILLA DE CORREO 495  
Córdoba - Argentina

Córdoba, 28 July 1969

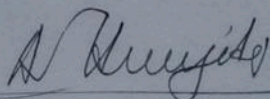
Dr. David J. Rogers  
Taximetrics Laboratory  
Department of Biology  
UNIVERSITY OF COLORADO  
Armory 101  
BOULDER, COLORADO 80302  
U.S.A.

Dear Sir:

According to your request of February 1969, I am glad to let you know that a few days ago we have sent to you 5 specimens of Manihot, that are duplicates from my collection. When you finish its study, you may keep them, or, if you prefer, please send them to the United States National Herbarium, as a gift from our Institution.

Regarding the types specimens of M. hunzikeriana MART. CROV., I am unable to send it to you on account of our regulations that forbid to send type specimens abroad. Instead I am sending you -enclosed herewith-, a photograph of it.

Sincerely yours,



Prof. Ing. Armando T. Hunziker

Sent to US Nat. Herb.  
Aug. 11, 1971

TAXIMETRICA LAB  
Armory 101

13 Oct 69

Prof. Ing. Armando T. Hunziker  
Museo Botanico  
Casilla De Correo 495  
Cordoba Argentina.

Dear Dr. Hunziker:

The 5 specimens of Manihot which you were so kind as to send us, have been received in good condition and I thank you for sending them.

May I request you to arrange to collect, if possible, few specimens of Manihot hunzikeriana Mart. Crov., and send them to us. I am very particular to give due consideration to this new species in our monograph on Manihot. I would very much appreciate this favour from you.

Thanking you in anticipation,

Sincerely yours,

(David J. Rogers)  
Professor of Biology

UNIVERSIDAD NACIONAL DE CORDOBA  
FACULTAD DE CIENCIAS EXACTAS, FISICAS Y NATURALES

MUSEO BOTANICO  
CASILLA DE CORREO 405  
Córdoba - Argentina

MATERIAL DE MANIHOT DONADO A UNIVERSITY OF COLORADO,  
DEPARTMENT OF BIOLOGY, SOLICITADO POR  
PROF. DAVID J. ROGERS

---

<u>COLECTOR</u>	<u>Nº</u>
A.T. HUNZIKER	18565
" " "	18466
" " "	10535
" " "	10722
" " "	9897

TOTAL: 5 (CINCO) DUPLICADOS

Recibí conforme: .....

Fecha: .....

TO BE RETAINED BY THE BORROWING INSTITUTION

13 June 1968

From Grady Webster

14 specimens (miscellaneous of euphorbs)

D. J. Rogers

Acknowledge - 3 July 1968

Received 14 unmounted spec. of *Mamillol*, *Stillingia*,  
*Phyllanthus* + *Sebastiania* from Grady Webster  
June 28, 1968.

Ville de Genève  
CONSERVATOIRE ET JARDIN  
BOTANIKES

Route de Lausanne 192

Genève, le 8 décembre 1970.

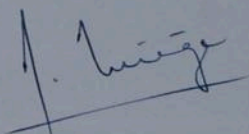
Mr. le Prof. Dr. H. D. HARRINGTON  
Director  
Department of Botany  
Colorado State University  
FORT COLLINS  
Colorado  
USA.

Rappel :

Monsieur et cher Collègue,

Occupés ces jours-ci à la révision de nos prêts, nous avons relevé ci-dessous ceux qui ont été consentis à votre institut. Nous vous prions de bien vouloir vérifier si nos indications sont exactes et au cas où les matériaux en question seraient entre vos mains depuis plus d'une année, de nous faire savoir, de préférence en employant cette feuille même, quand vous pensez pouvoir nous les retourner.

En vous remerciant à l'avance, je vous prie de recevoir, Monsieur et Cher Collègue, l'expression de mes meilleurs sentiments.



Le Directeur : Prof. Dr. Jacques Miège

No. 1.333 - 28.8.1961 - 194 feuilles, Manihot. (Dr. David J. Rogers)

Genève, le 28 août 1961.

Conservatoire et Jardin Botaniques  
Institut de Botanique appliquée de l'Université  
ROUTE DE LAURANNE 102

M. Bassett MAGUIRE  
Head Curator  
The New York Botanical Garden  
Bronx Park  
New - York 58

Etats Unis

Les spécimens mentionnés ci-dessous vous sont envoyés à titre de prêt en 1 exemplaire. Vous voudrez bien nous en accuser réception en utilisant le double de couleur ci-inclus.

Le directeur: R. W. G.

MEMBRES

DE CHAIRILLE

DELESSERT

DESSIGNY

DUBOIS

HANSEN

FUCKEL

STUPEL

HERBARIUMS

HERBARIUMS

etc.

EXTRAITS

DU DÉVELOPPEMENT

Les prêts sont faits, dans la règle, pour une période d'un an.

Les étiquettes et observations doivent être complètes sur des feuilles séparées, et à l'encre. (Celles-ci ne doivent pas être collées, mais simplement épinglées.)

Les analyses faites sur des organes séparés sont autorisées également sous réserve.

Dans le cas de prêt de matériel, les auteurs voudront bien envoyer à Genève un tel à part de leurs publications et nous adresser les plans de l'étiquetage de prêt.

Manihot	acuminatissima	1 -
	amazonica	2 -
	angustifrons	3 -
	anisophylla	4 - 7
	anomala	8 - 12
	attenuata	13 -
	brachyleba	14 -
	brachystachys	15 -
	brevipedicellata	16 -
	burchellii	17 -
	caricaefolia	18 -
	carthaginensis	19 -
	atingae	20 -
	caerulescens	21 - 23
	conulifera	24 -
	cordifolia	25 -
	corymbiflora	26 -
	crotalariaeformis	27 -
	depauperata	28 -
	dichotoma	29 -
	digitiformis	30 -
	dulcis var. aipi	31 -
	" " diffusa	32 - 35
	" " flabellifolia	36 -
	" " leptopoda	37 - 40
	elegans	41 -
	fiebrigii	42 - 45
	gracilis var. tenerrima	46 -
	" " tenuifolia	47 -
	" " prunifolia	48 - 50
	" " genuina	51 - 52
	glasievii	53 - 54
	graminifolia	55 - 58
	grandiflora	59 - 61
	grandistipula	62 - 63
	hassleriana	64 - 65
	hemitrichandra	66 - 67
	heptaphylla	68 - 69
	heterophylla	70 -
	humilis	71 -
	intercedens	72 -
	inflata	73 - 78

Manihot	jacobinensis	79 - 82
	janipheoides	83
	johannis	84
	laciniosa	85
	" var. lanata	86
	lagoensis	87
	langsdorffii	88
	linearifolia	89
	lobata	90 -101
	longepetiolata	102
	macrantha	103 -109
	maracasensis	110
	meebeldii	111 -112
	microcarpa	113
	multiflora	114 -119
	nana	120
	occidentalis	121
	eligantha	122
	orbicularis	123
	paraensis	124
	pardina	125
	paviaefolia	126
	paveniana	127
	pedicellaris	128 -130
	peltata	131
	pentaphylla	132
	peruviana	133 -135
	piauyensis	136 -137
	pilosa	138
	polyantha	139
	populifolia	140 -141
	procumbens var. grandifolia	142 -145
	" " genuina	146
	pruinosa var. genuina	147
	purpurea-costata	148
	quinquefolia	149
	quinqueleba	150
	recoznita	151 -152
	reniformis	153
	riedeliana	154
	rigidula	155
	sagittata-partita	156
	salicifolia	157
	sinuata	158 -159
	sparsifolia	160
	speciosa	161
	stenophylla	162
	stipularis	163 -164
	stricta	165 -166
	subquinqueleba	167
	tenella	168
	tripartita var. cajaniiformis	169
	" " dalechampiaeformis	170 -172
	" " glabra	173
	" " glauca	174 -178
	" " perrecta	179 -180
	" " seminuda	181
	" " subintegra	182

Manihot	triphylla	183
	tristis	184
	tweediana	185
	varians	186
	varifolia	187
	violacea var. arcuata	188
	" " cecropiaefolia	189- 190
	" " divergens	191
	" " genuina	192
	warmingii	193
	weberbaueri	194

Total de l'envoi 194 feuilles.

CONSERVATOIRE  
ET  
JARDIN BOTANIQUES

ROUTE DE LAUSANNE 192

HERBIERS BOISSIER, DE CANDOLLE  
ET DELESSERT RÉUNIS

DIR.: PROF. JACQUES MIÈGE

GENÈVE, le 19 juin 1968.

Mr. le Prof. David J. ROGERS  
Taximetrics Laboratory  
Department of Biology  
Armory 101  
University of Colorado  
B O U L D E R

Colorado 80302

USA.

Monsieur le Professeur,

L'Herbier du Prodrome de Candolle a été photographié par les soins de la Maison IDC (International Documentation Center), actuellement en Suisse, à ZOUG, Poststrasse 9.

Les espèces du genre Manihot, représentées dans cet herbier correspondent à 3 microfiches dont voici les numéros :

Microfiche 2596; à partir de la 3<sup>e</sup> photo de la 2<sup>e</sup> ligne ( 14 photos ) et comprend dans l'ordre du Prodrome 15/2

les espèces No 7 (M. anomala) à No 17 (M. utilisima).

Les noms des différentes espèces sont reportés sur toutes les photos.

Microfiche 2597; Les 24 photos de la microfiche soit les espèces No 17 à No 38 (M. carthagensis)

Microfiche 2598; le 6 premières photos de la première ligne, depuis la première photo de la 1<sup>è</sup> ligne soit le No 39 (M. angustiloba) à la 6<sup>e</sup> photo de la 1<sup>è</sup> ligne.

le No 42 (M. sinuata, var. laciniosa).

Vous pouvez donc, selon la circulaire jointe pour votre commande, avoir soit les 3 microfiches indiquées, soit les 44 photographies indiquées, en agrandissement.

Toute la série des microfiches de l'Herbier du Prodrome DC. a été achetée par plusieurs instituts américains et il est possible aussi que vous puissiez consulter ces microfiches dans une de ces institutions.

En espérant que ces renseignements vous seront utiles, nous vous prions d'agréer, Monsieur le Professeur, nos salutations distinguées.

*Simone Vautier*

Simone Vautier  
Conservateur

Annexe : 1 circulaire de commande pour l'IDC

*au valeur*

Conservatoire et Jardin botaniques  
de la Ville de Genève

Date : juin 1968

HERBIER DE CANDOLLE

192, route de Lausanne, GENEVE

M.

En réponse à votre demande, nous vous avisons que la grande majorité des spécimens inclus dans l'herbier du Prodrome de Candolle ont été photographiés par les soins de la maison I.D.C., en 1962 (International Documentation Centre, à Tumba, Suède). Adresse actuelle: Poststrasse 9, Zoug, Suisse

Le tout représente 2342 microfiches, qui se suivent dans l'ordre systématique des volumes du Prodrome.

En vous adressant à cette maison (voir ci-dessous), vous pouvez obtenir : soit une microfiche (112 x 69 mm) comprenant 24 microphotos pour le prix de \$ 1.00, soit un excellent agrandissement de chaque sujet (18 x 24 cm), à \$ 0.50 la pièce.

Détacher la fiche de commande, en spécifiant clairement ce que vous désirez recevoir. La facture vous sera adressée directement par l'I.D.C. Les numéros indiqués sont les cotes de repérage des espèces qui vous intéressent.

La Direction des Conservatoire et Jardin botaniques, GENEVE

Use this form to request the Purchasing Division  
to place an order with an OUTSIDE VENDOR.

Prepare in DUPLICATE. Forward original to  
Purchasing Division. Retain duplicate copy.

All purchases of materials, equipment and services  
from other than University-operated sources of supply  
must be made through the Purchasing Division.

5464

Present Date 2 July 1968

AVOID  
RUSH  
ORDERS

as soon as can be  
Required Delivery Date

To the Purchasing Division:  
Please Purchase the following for

FOR USE OF PURCHASING DIVISION ONLY	
Firm Name	
Street Address	
City and State	
attention:	

DELIVER TO: Prof. D. J. Rogers, Taximetrics Lab.  
(PLEASE INDICATE COMPLETE AND SPECIFIC DELIVERY INSTRUCTIONS)  
Armory 101, Boulder Campus

NAME OF DEPARTMENT: Biology

NAME OF ACCOUNT TO BE CHARGED: Biology

DEPARTMENT NUMBER	SUB	BUDGET CODE	OBJECT CLASS
1708	01	5	

FOB:  
VIA:

PLEASE MAKE OUT A SEPARATE PURCHASE REQUEST FOR EACH CLASS OF ITEM

Quantity	Unit of Measure	Description of Material (Complete Specifications Prevent Errors)	Estimated Cost	For use of Purchasing Division (Commitment Details)
44	ea	Microfiche Enlargements of Manihot specimens Numbered on attached order blank  from Microfiches 2596, 2597, and 2598  Specimens from the Herbarium de Candolle in Geneva	\$22.00	

Requested by (Please Sign)	Date	Telephone Ext
	<u>7/2/68</u>	<u>6712</u>
Approved by Dean or Department Head (Please Sign)	Date	
Approved by Comptroller (Please Sign)	Date	
Business Aspects Approved by (Please Sign)	Date	

Suggestions as to vendors from whom the above items may be secured  
will be considered.

International Documentation Center  
Poststrasse 9  
Zoug, Switzerland

CASH TERMS:

OTHER:

COMMITMENT TOTAL

\$

BUYER	DATE
-------	------

-----  
A DETACHER ET ENVOYER A I.D.C.

Hägelby Hus, TUMBA, Suède Poststrasse 9, ZOUG (Suisse)

FICHE DE COMMANDE

Date :

\* Veuillez nous adresser <sup>les</sup> ~~la~~ microfiches: ~~2596, 2597 et 2598~~

\* Veuillez nous adresser les copies suivantes, en agrandissements :

Microfiche 2596: 3/2, 4/2, 5/2, 6/2, 7/2, 8/2

1/3, 2/3, 3/3, 4/3, 5/3, 6/3, 7/3, 8/3.

Microfiche 2597: les 24 photos et microfiche 2598: 1/1, 2/1,

La facture est à envoyer à l'adresse ci-dessous : 3/1, 4/1, 5/1, et 6/1.

Institut : Taximetrics Laboratory, Biology Department

Rue : University of Colorado

Ville : Boulder, Colorado 80302

Pays : U.S.A.

\* Biffer ce qui ne convient pas.

October 14, 1970

Dr. Paulo Bezerra Cavalcante  
Head of Botany Division  
Instituto Nacional de Pesquisas da Amazonia  
Museu Paraense "Emilio Goeldi"  
Caixa Postal 399  
Belém, Pará, Brazil

Estimado Paulo:

Recebi uma resposta á minha carta preguntanda a situação referente um empréstimo de Manihot para os estudos do Dr. David J. Rogers, agora da Universidade de Colorado. Ele indicou que o estudo do seu material, 49 amostras, está quase completa e que dentro seis meses ele vai devolver todo material anotado. Mais tarde, vai mandar uma cópia do trabalho publicado.

Esperando que esta informação quebra o galho para esta hora, fico pronto ajudar com qualquer outra problema entre nossos institutos.

Abraços,

Howard S. Irwin  
Chefe curador

HSI:hr  
cc: Dr. D. J. Rogers

12 September 1969

Armory 101

Dr. Reed C. Rollins, Director  
 Gray Herbarium of Harvard University  
 22 Divinity Avenue  
 Cambridge, Mass. 02138

Dear Reed:

= We have done most of the work on the monograph of the North American species of Manihot and now need to verify type material. We would like to have on loan the following types: (Gray Herbarium):

P. Goldsmith	120	Holotype of <u>Manihot mexicana</u>	I. M. Johnston
E. Palmer	224	Holotype of <u>Manihot rubricaulis</u>	I. M. Johnston
Holotypes and/or isotypes of the following, if available:			
C. G. Pringle	3588	<u>Manihot Pringlei</u>	Watson
C. G. Pringle	13938	<u>Manihot intermedia</u>	Weatherby
Uhde	1176	<u>Manihot olfersiana</u>	Pax
Kerber	185	<u>Manihot crassisepala</u>	Pax and Hoffman

From the Arnold Arboretum Herbarium:

E. Matud <sup>9</sup>	1665	Holotype of <u>Manihot parvicocca</u>	Croizat
R. S. Ferris	6140	Holotype of <u>Manihot colimensis</u>	Croizat
E. J. Walker (H. B. Parks) s.n.*		Holotype of <u>Manihot Walkerae</u>	Croizat

Holotypes and/or isotypes of the following if available:

C. G. Pringle	3558	<u>Manihot Pringlei</u>	Watson
C. G. Pringle	13983	<u>Manihot intermedia</u>	Weatherby
Uhde	1176	<u>Manihot olfersiana</u>	Pax
Kerber	185	<u>Manihot crassisepala</u>	Pax & Hoffman

\* We do have two Arnold Arboretum sheets of H. B. Parks s.n., neither of one annotated as Holotype. Are there other annotated sheets?

Sincerely,

David J. Rogers  
 Professor of Biology

DJR:gm

HARVARD UNIVERSITY

ARNOLD ARBORETUM  
Richard A. Howard, *Director*



GRAY HERBARIUM  
Reed C. Rollins, *Director*

THE HERBARIA  
Lorin I. Nevling, Jr., *Supervisor*

22 Divinity Avenue  
Cambridge, Massachusetts 02138, U.S.A.

October 17, 1969

Prof. David J. Rogers  
Dept. of Biology  
Armory 101  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

Been caught with my paper work undone! I have your letter of receipt of the Manihot types but for the record please return the enclosed green form. We did not locate the other material you requested.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lorin'.

Lorin I. Nevling, Jr.  
Curator and Supervisor of the Herbaria

LIN/em

SHIPPING NOTICE

ARNOLD ARBORETUM OF HARVARD UNIVERSITY AND GRAY HERBARIUM OF HARVARD UNIVERSITY  
22 DIVINITY AVENUE  
CAMBRIDGE, MASSACHUSETTS 02138  
U. S. A.

To: Prof. David J. Rogers  
Dept. of Biology  
Armory 101  
University of Colorado  
Boulder, Colorado 80302

Date October 17, 1969

No. of Packages One Box  
Shipped by { Parcel post  
              { Express            prepaid  
   collect

We are sending you herbarium specimens as indicated below. Upon the arrival of the shipment, kindly verify its contents and acknowledge by signing the green sheet and returning it to the Curator.

- (1) Gift.
- (2) Exchange.
- (3) For identification.
- (4) Return of borrowed material.
- ~~xx~~ (5) Loan ~~n69-152~~ — Return is expected by prepaid express or parcel post before May 1, 1970. Extension of this period may be granted on request to the Curator. The borrower is expected to annotate each sheet of the loan with permanent ink (not ball point). All material included in this loan must be returned at one time with the exception of types which must be returned within sixty days of receipt of the specimens.

FOR LOANS ONLY

This form to be retained by the borrower as a record of the loan, to be returned with the specimens when study of the material is completed. Upon receipt of the material this form will be signed by the Curator and returned to the sender in acknowledgment of its safe arrival.

*Louis I. Steyer*  
CURATOR

DESCRIPTION OF SPECIMENS

10 types Manihot requested by Prof. Rogers for personal study.

This sheet to be returned on completion of the study.

Received the above in good order

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signed

TAXIMETRICS LAB  
ARMORY 101

13 Oct 69

Dr. Reed C. Rollins, Director  
Gray Herbarium of Harvard University  
22 Divinity Avenue  
Cambridge, Mass. 02138

Dear Reed:

This is to acknowledge with thanks the receipt of the following specimens in good condition.

Pringle C.G. 3558 (GH)  
Parks H.B. s.n. (A) 2 sheets  
Matuda E. 1665 (A)  
Pringle C.G. 15938 (GH)  
Kerber 185 (GH) photo  
Ferris R.S. 6140 (A)  
Palmer E. 224 (GH) 2 sheets  
Goldsmith P. 120 (GH)

Sincerely,

David J. Rogers  
Professor of Biology

RIJKSHERBARIUM  
(National Herbarium)  
LEIDEN  
(Netherlands)

LEIDEN. April 16th, 1969

To The Herbarium  
University of Colorado Museum  
BOULDER  
Colorado 80502  
U.S.A.

We are sending you, by parcel post

24 herbarium specimens as indicated below. Upon arrival of the shipment, kindly verify its contents and acknowledge receipt by signing and returning the white sheet to us.

xx Loan: No. 3232

Return of borrowed specimens

Gift

Return of specimens sent for identification

Exchange

The period of the loan is at most **one year**. If an extension is wanted, the loanee should hand in a signed application form in which he states that the specimens on loan are still complete and undamaged.

The loanee is held responsible for the return of the specimens in an undamaged condition. Labels must not be removed or damaged and no alterations in the text are allowed. Identifications should be given on separate labels, signed by the user.

It will be highly appreciated if borrowers will be so kind as:

- a. to quote the *Rijksherbarium* in their publications.
- b. to inform the Director of the *Rijksherbarium* of the books and journals in which their results have been or will be published, and to send him one or two copies of their publications.
- c. to assist in filling possible gaps in the collections of the *Rijksherbarium* by offering duplicates from their own collections.

DESCRIPTION OF SPECIMENS:

24 Euphorbiaceae on loan to Dr. David J. Rogers

All correspondence should be  
addressed to the Director.

Received the above in good order

Date

Signed

Leiden, 16 april 1969

The Herbarium  
University of Colorado Museum  
BOULDER

Colorado 80302 U.S.A.

(Loan to Dr. David J. Rogers)

List no. 3232	✓	1 - 2	Manihot	amazonica	1) ✓ 2416	2) ✓ 2417
	✓	3 - -	"	anisophylla	- 3301	
	✓	4 - -	"	boliviana	- 3302	
	✓	5 - -	"	carthagenensis	- 941	
	✓	5a - -	"	catingae	- 2415	
	✓	6 - -	"	coerulescens	- 2414	
	✓	7 - -	"	dichotoma	- 2413	
	✓	8 - -	"	dichotoma var.	- 2412	
	✓	9 - 11	"	glaziovii	✓ 9 = 2303, 10, 2411	11 = 2410
	✓	12 - -	"	heptaphylla	- 2409	
	✓	13 - -	"	heterophylla	- 3300	
	✓	14 - -	"	maracasensis	- 2408	
	✓	15 - -	"	multiflora	- 3299	
	✓	16 - -	"	peruviana	- 3298	
	✓	17 - -	"	piauphyensis	- 2407	
	✓	18 - -	"	populifolia	- 3297	
	✓	19 - -	"	procumbens	- 2406	
	✓	20 - 22	"	reniformis	✓ 22 = 2403, ✓ 21 = 2404	✓ 20 = 2405
	✓	23 - -	"	surumnensis	- 2402	

UNIVERSITY OF MICHIGAN HERBARIUM  
North University Building  
Ann Arbor, Michigan 48104

22 July 1970

Dr. David J. Rogers  
Dept of Botany  
Colorado State University  
Fort Collins, Colo.

Dear Dave:

At this time we are writing to all those institutions and individuals who have long-outstanding loans from the Herbarium of the University of Michigan, to inquire if it would be convenient for the borrowers to return the loans. Most loans are made for a period of 6 months or one year. We realize that in many instances the borrower finds it impossible to complete his projected study within the loan-period, and if necessary we are ready upon request to extend the period.

According to our records you have the following loan(s):

Loan no. 529. 87 sheets of Manihot. Loan originally sent to New York 9 years ago. Extended to 1966

If it would be convenient for you to return some or all of this material we should be grateful. Particularly with respect to large loans, the routine work of the herbarium is seriously interfered with by the absence of whole genera or families, or even large series of species.

8/7/70 - Requested extension to  
December, 70.

*Spec on loan*  
loan extension to July 1, '69  
requested.

JUL 10 1968

UNIVERSITY OF MICHIGAN HERBARIUM  
North University Building  
Ann Arbor, Michigan 48104

July 5, 1968

Dr. David J. Rogers  
Department of Botany  
Colorado State University  
Fort Collins, Colorado

Dear Dave:

At this time we are writing to all those institutions and individuals who have long-outstanding loans from the Herbarium of the University of Michigan, to inquire if it would be convenient for the borrowers to return the loans. Most loans are made for a period of 6 months or one year. We realize that in many instances the borrower finds it impossible to complete his projected study within the loan-period, and if necessary we are ready upon request to extend the period.

According to our records you have the following loan(s):

Loan No. 529. 87 sheets of Manihot. Loan made 18 May 1961. Loan period extended to 1 Aug 1966.

If it would be convenient for you to return some or all of this material we should be grateful. Particularly with respect to large loans, the routine work of the herbarium is seriously interfered with by the absence of whole genera or families, or even large series of species.

May 24, 1961

Dr. Rogers McVaugh  
The Herbarium, Museums Building  
University of Michigan  
Ann Arbor, Michigan

Dear Rog:

The specimens arrived yesterday; enclosed please find the description of specimens.

I am very pleased with the material, particularly that which you yourself have been responsible for. If all collections were as well annotated, I think we could solve the Manihot problem tomorrow.

I would very much like to investigate the materials of Mexico in the field, and perhaps some time in the future I might join you for a few days or a few weeks in that area to take advantage of your already extensive knowledge of the flora there. Perhaps it is something worth thinking of for some undetermined future date.

Sincerely

DJR:MDF  
Enclosure

*Hold in box until  
Specimens  
arrive*

UNIVERSITY MUSEUMS  
UNIVERSITY OF MICHIGAN  
ANN ARBOR, MICHIGAN, U. S. A.

May 19, 1961

UNIVERSITY HERBARIUM

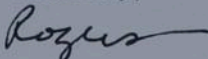
Dr. David J. Rogers  
New York Botanical Garden  
Bronx Park  
New York 58, New York

Dear Dave:

We are sending you by express prepaid, in 1 carton  
as our loan No. 529, 87 sheets of *Manihot* including 6 types.  
I hope you find these of some interest. Please sign and  
return the blue sheet at your convenience.

With best regards,

Sincerely,



Rogers McVaugh  
Curator of Vascular Plants

RMcV:dd

If it is not convenient for you to return the material, or a part of it, will you please fill out and return the form as indicated below?

1. Extension of loan-period requested until:

December, 1970

*Granted  
Rogers  
Curator*

2. Explanation of need for further extension:

We have nearly completed the complete genus--South American, North American, and a monograph of the cultivars. What remains is the nomenclature decisions, the division of the genus into supra-specific taxa, annotation of the specimens. These will be done and all specimens returned by the above date.

Thanks for your patience!

*Dave*

With thanks for your cooperation, and kindest regards,

Sincerely yours,

*Rogers*

Rogers McVaugh  
Curator of Vascular Plants

*David J. Rogers*

Dr. David J. Rogers  
Department of Botany  
Colorado State University  
Fort Collins, Colo. 80521

Ministerio de Educación y Justicia de la Nación  
Fundación Miguel Lillo

Ley 12035



San Miguel de Tucumán (R. A.) 25 de febrero de 1959  
Miguel Lillo 203

Dr. David J. Rogers  
Associate Curator  
The Herbarium  
University of Colorado Museum  
Boulder, Colorado 80302  
Boulder, COLORADO.-U.S.A.-

De mi mayor estima:

Tengo el agrado de dirigirme a usted, y acusar recibo de su carta del 4 del corriente, y de acuerdo a la misma, se le envían en calidad de préstamo material del género Manihot, (82 ejemplares), los que espero le resulten interesantes.

Le saludo muy cordialmente.

Dr. TEODORO MEYER  
JEFE del DEPARTAMENTO de BOTANICA

P/D.- Le adjunto lista del material.

Ministerio de Educación y Justicia de la Nación  
Fundación Miguel Lillo

Ley 12035



San Miguel de Tucumán (R. A.)  
Miguel Lillo 205

Material que se envía en calidad de préstamo al Dr. Lincoln Constance,  
University of Colorado Museum, Boulder, Colorado 80302, Boulder,  
Colorado 80302, Boulder, Colorado. U.S.A.- 24 de febrero de 1969.-

3344	✓ Leg. T. Stuckert	Nº 4270	LIL. 278.567
3345	✓ Leg. T. Stuckert	Nº 12.756	LIL. 278.706
3346	✓ Leg. M.L. Giardelli	Nº 828	LIL. 28.022
3347	✓ Leg. T. Stuckert	Nº 22.154	LIL. 279.904
3348	✓ Leg. T. Stuckert	Nº 12.462	LIL. 278.568
3349	✓ Leg. T. Stuckert	Nº 18.873	LIL. 278.791
3343	✓ Leg. T. Meyer	Nº 4.805	LIL. 78.559 y b-2
3350	✓ Leg. Schreiter	Nº 6.454	LIL. 6523
3351	✓ Leg. L. Castellón	Nº 1.949	LIL. 6.525
3352	✓ Leg. L. Castellón	Nº	LIL. 4.913 y b
3353	✓ Leg. L. Castellón	Nº 1.720	LIL. 4.912
3354	✓ Leg. P. Jørgensen	Nº 1.225	LIL. 4.911
3355	✓ Leg. Peirano	Nº	LIL. 6.537
3337	→ Leg. Schreiter	Nº 1.795	LIL. 6.502
3338	✓ Leg. Schreiter	sin nº leg.	LIL. 6.503 y b-2
3339	✓ Leg. S. Gonzalez	Nº 21.583	LIL. 279.905
3340	✓ Leg. Herb. Lillo	Nº 7.918	LIL. 4.908
3341	✓ Leg. S. Venturi	Nº 1.611	LIL. 4.888
3342	✓ Leg. Herb. Lillo	Nº 7.278	LIL. 4.907 y b-2
3336	✓ Leg. T. Meyer	Nº 2.186	LIL. 73.107
3356	✓ Leg. Lillo	Nº 52.696	LIL. 4.894
3357	✓ Leg. Schreiter	Nº 5.189	LIL. 4.915 y b-2
3358	✓ Leg. Schreiter	Nº 3.402	LIL. 4.903 y b-2
3359	✓ Leg. Schreiter	Nº 4.106	LIL. 4.904
3360	✓ Leg. Schreiter	Nº 10.992	LIL. 14.855 y b
3382	✓ Leg. R. Díaz	sin nº leg.	LIL. 6.524, b y c-3
3377	✓ Leg. S. Venturi	Nº 1.690	LIL. 4.900
3374	✓ Leg. S. Venturi	Nº 2.865	LIL. 4.901
3379	✓ Leg. S. Venturi	Nº 10.191	LIL. 6.216
3380	✓ Leg. Lillo	Nº 5.235	LIL. 4.899, b y c-3
3381	✓ Leg. Lillo	Nº 1.822	LIL. 4.902
3376	✓ Leg. Schreiter	Nº 552	LIL. 6.505 y b-2
3375	✓ Leg. Schreiter	Nº 9.068	LIL. 6.568 y b-and c-3
3374	✓ Leg. Lillo	Nº 5.269	LIL. 4.895
3370	✓ Leg. Herb. Lillo	sin nº leg.	LIL. 4.906
3371	✓ Leg. S. Venturi	Nº 669	LIL. 4.914
3372	✓ Leg. Lillo	Nº 2531	LIL. 4.898 y b-2
3373	✓ Leg. R. Schreiter	sin nº leg.	LIL. 6.508

Ministerio de Educación y Justicia de la Nación  
Fundación Miguel Lillo

- 2 -

Ley 12035



San Miguel de Tucumán (R. A.)  
Miguel Lillo 205

Material que se envía en calidad de préstamo al Dr. Lincoln Constance,  
University of Colorado Museum, Boulder, Colorado 80302, Boulder,  
Colorado 80302, Boulder, Colorado.- U.S.A.- 24 de febrero de 1969.-

3367	✓ Leg. León Monetti	Nº 2.191	LIL. 4.897 y b - a
3368	✓ Leg. Ernesto Bailetto	Nº 96	LIL. 4.909 y b - a
3369	✓ Leg. S. Venturi	Nº 10.006	LIL. 5.305
3383	✓ Leg. Bertoni	Nº 511	LIL. 116.424
3384	✓ Leg. Bertoni	Nº 3.499	LIL. 223.342
3385	✓ Leg. Tito S. Ibarrola	Nº 1.009	LIL. 116.968
3386	✓ Leg. sin leg.	Nº 164	LIL. 4.921
3387	✓ Leg. J. E. Montes	Nº 360	LIL. 116.604
3388	✓ Leg. Lillo	Nº 2.365	LIL. 4.918 y b - a
3389	✓ Leg. Lillo	Nº 2.243	LIL. 4.917
3390	✓ Leg. T. Meyer	Nº 12.043	LIL. 183.375
3391	✓ Leg. Minist. Agricul.	Nº 721	LIL. 4.924
3392	✓ Leg. S. Venturi	Nº 63	LIL. 4.926
3393	✓ Leg. S. Venturi	sin nº leg.	LIL. 71.442
3394	✓ Leg. Bertoni	Nº 2.263	LIL. 142.257
3395	✓ Leg. Jorge L. Argañaraz	Nº 451	LIL. 86.653
3396	✓ Leg. Bertoni	Nº 4.638	LIL. 300.383
3397	✓ Leg. G.J. Schwarz	Nº 4.981	LIL. 212.028
3398	✓ Leg. G.J. Schwarz	Nº 6.369	LIL. 238.432
3399	✓ Leg. A.G. Schulz	Nº 7.053	LIL. 229.920
3400	✓ Leg. A.G. Schulz	Nº 7.178	LIL. 229.930
3361	✓ Leg. T. Meyer	Nº 5.421	LIL. 102.978
3362	✓ Leg. T. Meyer	Nº 5.850	LIL. 103.581
3363	✓ Leg. T. Meyer	Nº 11.773	LIL. 183.104
3364	✓ Leg. T. Meyer	Nº 11.945	LIL. 177.060
3365	✓ Leg. G.J. Schwarz	Nº 7.143	LIL. 248.091
3366	✓ Leg. Schreiter	Nº 3.704	LIL. 4.905

Dr. TEODORO MEYER  
JEFE del DEPARTAMENTO de BOTANICA

Dr. David J. Rogers  
Taximetrics Laboratory  
Department of Biology  
Armory 101  
University of Colorado  
Boulder, Colorado 80302

MISSOURI BOTANICAL GARDEN HERBARIUM  
2315 TOWER GROVE AVENUE  
ST. LOUIS, MISSOURI 63110

Date August 21, 1967


Gift  As requested  
 Loan  For ident.  
 Exchange  Return of borrowed material

The Missouri Botanical Garden Herbarium is sending you the specimens indicated by Parcel Post Prepaid in one carton. Upon arrival of shipment, kindly verify contents and acknowledge by signing the GREEN sheet and returning it to the Director of the Herbarium.

Return is anticipated by prepaid express or parcel post within a reasonable length of time. The Herbarium will appreciate having every sheet of the loan annotated and will be glad to receive a copy of publications in which these specimens are mentioned, as well as any duplicate specimens annotated by the researcher. All material included in this loan must be returned at one time.

The PINK duplicate sheet is to be retained by the borrower as a record of the loan and is to be mailed under separate cover when the specimens are returned. The PINK duplicate will be remailed to the borrower when the loan has been received and checked, indicating cancellation of the loan.

APPROVED:

  
Walter H. Lewis  
Director of the Herbarium

---

1 Gift sheet Manihot grahamii Hook.

---

Received the above in good order.

Date

Signature

JUN 25 1968

BOTANISCHE STAATSSAMMLUNG  
MÜNCHEN

Direktor: Prof. Dr. H. Merxmüller

8000 München 19,

Menzinger Straße 67

Telefon 574033

June 20th, 1968

Prof. Dr. D. ROGERS

Taximetrics Laboratory

Department of Biology

Armory 101

University of Colorado

BOULDER / COLORADO / USA

Dear Professor Rogers,

Thank you very much for your informative letter of 11th June a/s  
well as for the interesting reprints of your publications which have  
arrived recently. They are an appreciated addition to our Library. Vice versa  
Professor Merxmüller wants to inform you that you can keep the Manihot-specimens  
for the completion of your studies. We hope that you will not be troubled  
about our reminder. But routine-reminders must be sent from time to time  
to those institutions which do not return the loan material in time.

Yours sincerely,

*Aurelia Schreiber*

Dr. A. Schreiber,  
for the Director

Taxometrics Laboratory  
Department of Biology  
Armory 101  
University of Colorado  
Boulder, Colorado  
11 June 1968

Dr. A. Schreiber  
Botanische Staatssammlung  
Menzingerstrasse 67  
München, Germany

Dear Dr. Schreiber:

Dr. Howard Irwin, Curator of the New York Botanical Garden, has asked that I report to you the status of the Manihot specimens which I borrowed in 1961. I am sorry that the material has not yet been returned to you, but it has been possible to interpret your excellent material only within the last two years, as a result of recent collections made by Dr. Irwin.

As you know, I have been actively engaged in the revision of the genus, using methods of classification developed in my laboratory using computers. This now aids us to speed up the process of classification, and to give much more accurate interpretations of the species. I am sending separately several reprints which will give you some ideas about the computer methods which we employ.

We hope to complete studies of specimens, and return the Manihot material within one year. Your patience in this respect has been much appreciated, and I will forward the material as promised.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

THE NEW YORK BOTANICAL GARDEN  
BRONX • NEW YORK 10458  212/933-9400

June 3, 1968

Dr. David J. Rogers  
Taximetries Laboratory  
Department of Biology  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

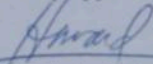
Thanks for your letter of May 29. The Fulbright application has gone in; your trip to Australia sounds exciting. Hope it comes through. How many of you would be going?

Glad to hear that Manihot is coming along well. We got some more Planalto material for you (due in a few weeks), but I don't recall seeing anything startlingly new. Your sets will be on their way in the fall.

I have a note from Dr. A. Schreiber, Botanische Staatssammlung, München, inquiring about the status of a loan of 62 sheets of Manihot, borrowed for you back in '61. Would you reply directly and send me a copy? All he wants to know is when they can expect the loan to be returned.

With best wishes to you, your family, and associates,

Cordially,

  
Howard S. Irwin  
Head Curator

HSI:mi

# SHIPPING NOTICE

Dr. C. D. Harrington, Curator  
Herbarium  
To Department of Botany  
Colorado State University  
Fort Collins, Colorado

New York Botanical Garden  
Bronx Park  
New York 58, N. Y.  
Date September 1, 1965  
No. of Packages 3

Shipped by  Parcel post  
 Express  prepaid  
Freight  collect

The New York Botanical Garden is sending you herbarium specimens as indicated below. Upon the arrival of the shipment, kindly verify its contents and *acknowledge by signing the blue sheet* and returning it to the Head Curator.

- (1) Gift.
- (2) Exchange.
- (3) For identification.
- (4) Return of borrowed material.

(5) Loan no. 4495 Return is expected by prepaid express or parcel post before April 1, 1966  
Extension of this period may be granted on request to the Head Curator. The New York Botanical Garden will appreciate having every sheet of the loan annotated, and will be glad to receive a copy of the publication in which these specimens are mentioned. All material included in this loan must be returned at one time. Packing should be carefully done to avoid breakage of specimens.

The *pink duplicate sheet* is to be retained by the borrower as a record of the loan and is to be mailed under separate cover when the specimens are returned. The pink duplicate will be retained to the borrower when the returned loan has been received and checked, indicating cancellation of the loan.

HEAD CURATOR.

## DESCRIPTION OF SPECIMENS

Sending the following sheets of Manihot on loan for study by Dr. David J. Rogers:

** 469	sheets of Manihot
<u>24</u>	Type sheets of Manihot
493	
On loan for identification:	
<u>24</u>	Irwin & Soderstrom (Brasil 1964)
<u>38</u>	Irwin, Irvine & Prance (1961 & 1963)
62	

Total: 555 sheets

See attached sheet for list of types

\*\* Sheet 20085 - Ricardo de Lemos Frões, Nov. 22, 1942 was located after arriving in Fort Collins. Instead of the 469 sheets of Manihot, there are 470.

Received the above in good order

All correspondence concerning the herbarium should be addressed to the Head Curator.


Date

Signed

List of Types sent to Dr. C. D. Harrington, for study by Dr. David J. Rogers  
 Department of Botany  
 Colorado State University  
 Fort Collins, Colorado

Schott s.n.	Manihot walkerae Croiz. (foliage)	1853
" s.n.	" " (flowers)	"
" 8	" angustiloba (Torr.) Mull. Arg.	1855
Pringle 8687	" caudata Greenm.	1902
Leavenworth 1402	" tomatophylla Standl.	1941
Wright 1817	" angustiloba (Torr.) Mull. Arg.	1851-52
---- 2814	" ludibunda Croiz.	1896
Spruce 4287	" peruviana Mull. Arg.	1855-56
Pringle 3826	" pringlei Watson	1891
Luetzelburg 10	" flexuosa Pax et K. Hoffm.	1911-12
" 15013	" epruina Pax et K. Hoffm.	1914
" 12429	" pseudoglaziovii Pax et K. H.	1920
" 7209	" tripartita var. quinqueloba Pax et K. H.	1917
Hassler 7955	" tripartita var. apoensis	----
Moore 186	" tripartita var. vestita S. Moore	1891-92
Pittier 11761	" remotiloba Pittier	1925
Palmer 224	" rubricaulis I. M. Johnst.	1896
Blanchot 2553	" jacobinensis Mull. Arg.	1839
Rusby 888	" rusbyi Britton	1886
Lanjouw 955	" saxicola Lanj.	1933
Matuda 1665	" parvicocca Croiz.	1937
Gardner 1837	" coeruleascens var. pubescens Mull. Arg.	1836-41
---- 3466	" guaranitica	1900
Purpus 3418	" pauciflora Brandg.	1908

New York Botanical Garden Loan No. 4495, September 1, 1965.

THE NEW YORK BOTANICAL GARDEN  
BRONX • NEW YORK 10458  LU 4-8500

September 1, 1965

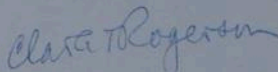
Dr. C. D. Harrington, Curator  
Herbarium  
Department of Botany  
Colorado State University  
Fort Collins, Colorado

Dear Dr. Harrington:

Under separate cover, we are sending to you 555  
sheets of Manihot (Loan No. 4495) for study by Dr. David  
J. Rogers.

We trust Dr. Rogers will find this material useful  
in his further studies of Manihot.

Sincerely yours,



Clark T. Rogerson  
Acting Head Curator

CTR:gg  
Enc.

# SHIPPING NOTICE

New York Botanical Garden  
Bronx Park  
New York 58, N. Y.

Date March 23, 1967

To Dr. David J. Rogers  
Taximetrics Laboratory  
Dept. of Botany & Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

No. of Packages .....

Shipped by { Parcel post  
Express prepaid  
Freight collect

The New York Botanical Garden is sending you herbarium specimens as indicated below. Upon the arrival of the shipment, kindly verify its contents and *acknowledge by signing the blue sheet* and returning it to the Head Curator.

- (1) Gift.
- (2) Exchange.
- (3) For identification.
- (4) Return of borrowed material.
- (5) Loan no. .... Return is expected by prepaid express or parcel post before .....

*Your Copy*

Extension of this period may be granted on request to the Head Curator. The New York Botanical Garden will appreciate having every sheet of the loan annotated, and will be glad to receive a copy of the publication in which these specimens are mentioned. All material included in this loan must be returned at one time. Packing should be carefully done to avoid breakage of specimens.

The *pink duplicate sheet* is to be retained by the borrower as a record of the loan and is to be mailed under separate cover when the specimens are returned. The pink duplicate will be remailed to the borrower when the returned loan has been received and checked, indicating cancellation of the loan.

HEAD CURATOR.

## DESCRIPTION OF SPECIMENS

Sending 79 specimens of Manihot collected by H.S. Irwin et al in the Planalto of Brasil, 1966, for identification by Dr. Rogers. Also included are root specimens relative to the above 79 specimens.

These specimens may be retained by Colorado State University.

Received the above in good order

All correspondence concerning the herbarium should be addressed to the Head Curator.

.....  
Date

.....  
Signed

# SHIPPING NOTICE

New York Botanical Garden  
Bronx Park  
New York 58, N. Y.

Date March 23, 1967

Dr. David J. Rogers

To Taxometrics Laboratory  
Dept. of Botany & Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

No. of Packages 1

Shipped by  Parcel post prepaid  
 Express collect  
 Freight collect

The New York Botanical Garden is sending you herbarium specimens as indicated below. Upon the arrival of the shipment, kindly verify its contents and *acknowledge by signing the blue sheet* and returning it to the Head Curator.

- (1) Gift.
- (2) Exchange.
- (3) For identification.
- (4) Return of borrowed material.

(5) Loan no. 4710.....Return is expected by prepaid express or parcel post before October 1, 1967. Extension of this period may be granted on request to the Head Curator. The New York Botanical Garden will appreciate having every sheet of the loan annotated, and will be glad to receive a copy of the publication in which these specimens are mentioned. All material included in this loan must be returned at one time. Packing should be carefully done to avoid breakage of specimens.

The *pink duplicate sheet* is to be retained by the borrower as a record of the loan and is to be mailed under separate cover when the specimens are returned. The pink duplicate will be mailed to the borrower when the returned loan has been received and checked, indicating cancellation of the loan.

HEAD CURATOR.

## DESCRIPTION OF SPECIMENS

Sending 12 sheets of Manihot collected by H.S. Irwin et al in the Planalto of Brasil, 1966, on loan for study by Dr. Rogers.

Please Note: The 79 specimens for identification are packed with this loan. However, the root specimens belonging to the above specimens for identification are packaged separately in other boxes, and so labeled.

Received the above in good order

All correspondence concerning the herbarium should be addressed to the Head Curator.

.....  
Date

.....  
Signed

# SHIPPING NOTICE

New York Botanical Garden  
Bronx Park  
New York 58, N. Y.

Date September 6, 1967  
No. of Packages 1

To Dr. David J. Rogers  
Department of Botany  
University of Colorado  
Boulder, Colorado 80302

Shipped by 

}	Parcel post	
	Express	prepaid
	Freight	collect

The New York Botanical Garden is sending you herbarium specimens as indicated below. Upon the arrival of the shipment, kindly verify its contents and *acknowledge by signing the blue sheet* and returning it to the Head Curator.

- (1) Gift.
- (2) Exchange.
- (3) For identification.
- (4) Return of borrowed material.

Loan no. 858.....Return is expected by prepaid express or parcel post before.....  
Extension of this period may be granted on request to the Head Curator. The New York Botanical Garden will appreciate having every sheet of the loan annotated, and will be glad to receive a copy of the publication in which these specimens are mentioned. All material included in this loan must be returned at one time. Packing should be carefully done to avoid breakage of specimens.

The *pink duplicate sheet* is to be retained by the borrower as a record of the loan and is to be mailed under separate cover when the specimens are returned. The pink duplicate will be remailed to the borrower when the returned loan has been received and checked, indicating cancellation of the loan.

HEAD CURATOR.

---

## DESCRIPTION OF SPECIMENS

8 unmounted duplicate specimens of Irwin et al. 11039, to be returned.

Received the above in good order

All correspondence concerning the herbarium should be addressed to the Head Curator.

.....  
Date

.....  
Signed

# SHIPPING NOTICE

HERBARIA  
of the  
NEW YORK BOTANICAL GARDEN

To Dr. David J. Rogers  
Department of Botany  
University of Colorado  
Boulder, Colorado 80302

Date November 13, 1968

The New York Botanical Garden is sending you herbarium specimens according to the conditions indicated below. Please verify the contents of this shipment promptly upon its arrival and **acknowledge receipt by signing the blue copy and returning it to the Head Curator.** The pink copy is for the recipient's records.

Gift  
 Exchange  
 For identification  
 Return of borrowed material  
 Loan no. 2  
 Other as described below

Parcel post  
 Express  
 First class  
 Prepaid  
 Collect

Library Material  
NO. OF PACKAGES 1

.....  
**LOAN CONDITIONS:** Return of borrowed material is expected within six months. Extension of the loan may be granted on request to the Head Curator. Every returned sheet should bear an annotation slip showing the identifier's name. All material borrowed under one loan number should be returned at the same time. No material is to be removed from borrowed phanerogamic herbarium specimens without permission from the Head Curator.

The pink copy of the shipping notice should be mailed to the Head Curator at the time the borrowed specimens are returned. Cancellation of the loan will be recorded on this copy when the specimens have safely arrived. The pink copy will then be returned to the borrower as a permanent record of the loan.

---

## DESCRIPTION OF SPECIMENS

12 mounted sheets of Manihot, to be returned.

Received the above in good condition:

David J. Rogers  
Signed  
Nov. 21, 1968  
Date

12 mounted sheets

Loarn from New York Bot gardens

received on 20-Nov-68

Drusin, Maxwell, and Warschausem

- 1) 18983
- 2) 18924
- 3) 18997
- 4) 18926
- 5) 21762

Heininger E-P

- 6) 9209
- 7) 8760/954
- 8) 8895/1089
- 9) 7810/4
- 10) 9710
- 11) 8850/1044
- 12) 8850/1044

# SHIPPING NOTICE

HERBARIA  
of the  
NEW YORK BOTANICAL GARDEN

To Dr. David J. Rogers  
Department of Botany  
University of Colorado  
Boulder, Colorado 80302

Date November 13, 1968

The New York Botanical Garden is sending you herbarium specimens according to the conditions indicated below. Please verify the contents of this shipment promptly upon its arrival and **acknowledge receipt by signing the blue copy and returning it to the Head Curator.** The pink copy is for the recipient's records.

Gift  
 Exchange  
 For identification  
 Return of borrowed material  
 Loan no. \_\_\_\_\_  
 Other as described below

Parcel post  
 Express  
 First class  
 Prepaid  
 Collect

Library Material

NO. OF PACKAGES 1

**LOAN CONDITIONS:** Return of borrowed material is expected within six months. Extension of the loan may be granted on request to the Head Curator. Every returned sheet should bear an annotation slip showing the identifier's name. All material borrowed under one loan number should be returned at the same time. No material is to be removed from borrowed phanerogamic herbarium specimens without permission from the Head Curator.

The pink copy of the shipping notice should be mailed to the Head Curator at the time the borrowed specimens are returned. Cancellation of the loan will be recorded on this copy when the specimens have safely arrived. The pink copy will then be returned to the borrower as a permanent record of the loan.

## DESCRIPTION OF SPECIMENS

21 unmounted specimens of Manihot, to be retained.

Received the above in good condition: .....

David J. Rogers  
Signed

Nov. 21, 1968  
Date

21 unmounted  
specimens.

Gift from New York Bot. Garden  
received on 20. Nov. 68.

Inurin, Maxwell and Wasshausen.

- 1) 18562
- 2) 19083
- 3) 19200
- 4) 19359
- 5) 19430
- 6) 19263
- 7) 18765 (2 sheets)
- 8) 18671
- 9) 18560
- 10) 18615
- 11) 19036
- 12) 19236
- 13) 19304
- 14) 19082 (2 sheets)
- 15) 19774
- 16) 20422
- 17) 21651
- 18) 20822
- 19) 20862
- 20) 21033
- 21) 21119

# SHIPPING NOTICE

HERBARIA  
of the  
NEW YORK BOTANICAL GARDEN

To Dr. D. Rogers  
Department of Botany  
University of Colorado  
Boulder, Colorado 80302

August 6, 1969  
Date .....

DR. HOWARD S. IRWIN  
THE NEW YORK BOTANICAL GARDEN  
BRONX, NEW YORK 10458

The New York Botanical Garden is sending you herbarium specimens according to the conditions indicated below. Please verify the contents of this shipment promptly upon its arrival and **acknowledge receipt by signing the blue copy and returning it to the Head Curator.** The pink copy is for the recipient's records.

<input type="checkbox"/> Gift	<input type="checkbox"/> Parcel post
<input type="checkbox"/> Exchange	<input type="checkbox"/> Express
<input type="checkbox"/> For identification	<input type="checkbox"/> First class
<input type="checkbox"/> Return of borrowed material	<input type="checkbox"/> Prepaid
<input checked="" type="checkbox"/> Loan no. <u>3</u>	<input type="checkbox"/> Collect
<input type="checkbox"/> Other as described below	<input type="checkbox"/> Library rate
	NO. OF PACKAGES <u>one</u>

**LOAN CONDITIONS:** Return of borrowed material is expected within six months. Extension of the loan may be granted on request to the Head Curator. Every returned sheet should bear an annotation slip showing the identifier's name. All material borrowed under one loan number should be returned at the same time. No material is to be removed from borrowed phanerogamic herbarium specimens without permission from the Head Curator.

The pink copy of the shipping notice should be mailed to the Head Curator at the time the borrowed specimens are returned. Cancellation of the loan will be recorded on this copy when the specimens have safely arrived. The pink copy will then be returned to the borrower as a permanent record of the loan.

## DESCRIPTION OF SPECIMENS

1 sheet of Manihot

*Specimen returned in good condition on 14 Aug 69  
H. S. Irwin*

Received the above in good condition: .....

Signed

.....  
Date

THE NEW YORK BOTANICAL GARDEN  
BRONX • NEW YORK 10458  LU 4-8500

March 27, 1967

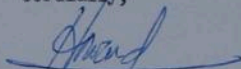
MAR 29 1967

Dr. David J. Rogers  
Taximetrics Laboratory  
Department of Botany & Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

Dear Dave:

I neglected to mention in my recent letter that we found in one of the old half-height cases that had somehow found its way to the first floor, a cache of mounted root and stem specimens together with photos. All had been collected and prepared by you. Since these have much more relevance to your present work than to anything going on here, I am having them sent on to you on a gift basis. Included in this shipment are 78 root specimens which I collected for you in central Brazil in '65 - '66. All of these roots are numbered to voucher herbarium specimens which have already been sent.

Cordially,



Howard S. Irwin  
Herbarium Administrator

HSI:paj

CABLE • NYBOTGARD • NEWYORK

# SHIPPING NOTICE

New York Botanical Garden

Bronx Park

New York 58, N. Y.

Date March 27, 1967

No. of Packages 2

To Dr. David J. Rogers  
Taximetrics Laboratory  
Department of Botany & Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

Shipped by  Parcel post  
 Express prepaid  
 Freight collect

The New York Botanical Garden is sending you herbarium specimens as indicated below. Upon the arrival of the shipment, kindly verify its contents and *acknowledge by signing the blue sheet* and returning it to the Head Curator.

- (1) Gift.
- (2) Exchange.
- (3) For identification.
- (4) Return of borrowed material.
- (5) Loan no. .... Return is expected by prepaid express or parcel post before .....

*Your Copy.*

Extension of this period may be granted on request to the Head Curator. The New York Botanical Garden will appreciate having every sheet of the loan annotated, and will be glad to receive a copy of the publication in which these specimens are mentioned. All material included in this loan must be returned at one time. Packing should be carefully done to avoid breakage of specimens.

The *pink duplicate sheet* is to be retained by the borrower as a record of the loan and is to be mailed under separate cover when the specimens are returned. The pink duplicate will be remailed to the borrower when the returned loan has been received and checked, indicating cancellation of the loan.

HEAD CURATOR.

## DESCRIPTION OF SPECIMENS

Sending 78 root specimens belonging to the 79 specimens of *Manihot* sent for identification. They are packed in two boxes and so marked. It was necessary to pack three of the gift specimens in one of these boxes.

Received the above in good order

All correspondence concerning the herbarium should be addressed to the Head Curator.

.....  
Date

.....  
Signed



# SHIPPING NOTICE

HERBARIA  
of the  
NEW YORK BOTANICAL GARDEN

To Director

Date April 30, 1968

Department of Biology

University of Colorado

Boulder, Colorado 80302

Att. Dr. D. J. Rogers, Taximetrics Lab.

The New York Botanical Garden is sending you herbarium specimens according to the conditions indicated below. Please verify the contents of this shipment promptly upon its arrival and **acknowledge receipt by signing the blue copy and returning it to the Head Curator.** The pink copy is for the recipient's records.

Gift  
 Exchange  
 For identification  
 Return of borrowed material  
 Loan no. \_\_\_\_\_  
 Other as described below

Parcel post  
 Express  
 First class  
 Prepaid  
 Collect

**Library Material**

NO. OF PACKAGES 1

**LOAN CONDITIONS:** Return of borrowed material is expected within six months. Extension of the loan may be granted on request to the Head Curator. Every returned sheet should bear an annotation slip showing the identifier's name. All material borrowed under one loan number should be returned at the same time. No material is to be removed from borrowed phanerogamic herbarium specimens without permission from the Head Curator.

The pink copy of the shipping notice should be mailed to the Head Curator at the time the borrowed specimens are returned. Cancellation of the loan will be recorded on this copy when the specimens have safely arrived. The pink copy will then be returned to the borrower as a permanent record of the loan.

---

## DESCRIPTION OF SPECIMENS

3 unmounted specimens of *Manihot*, to be retained.

Received the above in good condition: .....

*Signed*

.....  
*Date*

*Specimens* JUL 1 1968

THE NEW YORK BOTANICAL GARDEN  
BRONX • NEW YORK 10458  212/933-9400

June 28, 1968

Dr. David J. Rogers  
Taxometrics Laboratory  
Department of Biology  
Armory 101  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

Regarding the returned roots:

14193 was Guttiferae, sent in error.

"10930" was 10937, is Manihot, can be returned to you on request. *10937 root and leaf with us*

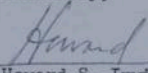
9772 was Cassia, sent in error.

"15576" was 15565, is Manihot, can be returned to you on request. *15565 leaf with us*

One of the "undecipherables" was a Manihot collection, 10480, *10480 root with us*  
and can be returned to you on request.

You haven't said whether these root collections are useful (at least not recently); please let me know if they are worth the travail to continue digging up.

Sincerely,

  
Howard S. Irwin  
Head Curator

HSI:mi

Specimens being returned to Irum

- item 2 - The Guttiferae specimen # 14193 . root  
item 3 - Fern # 10930 - stem  
item 4 - Cassia # 9772 . - root  
item 5 - Cyperaceae - leaf specimen # 15576  
item 8 - 3 roots with undecipherable numbers

---

2 more ~~of~~ specimens not mentioned in our previous letter  
one root - # 9625 . No card or ~~any~~ herbarium specimen with us  
stem # 2389 - "

THE NEW YORK BOTANICAL GARDEN  
BRONX • NEW YORK 10458  212/933-9400

April 30, 1968

Dr. David J. Rogers  
Department of Botany  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

Thanks very much for your rump review of Brieger's paper on numerical taxonomy. I have rewritten your commentary and sent it on to Brieger, who asked to be criticized. I haven't yet heard whether he is still coming, but you may be assured that by the time he does your work will be well known to him. Considering the old fellow is nearly 70, I'd say that his belated consideration of numerical taxonomy, whatever the incompleteness of his sources, is in itself a remarkable phenomenon. I'm sure you are aware, painfully so no doubt, that Sokal's work is known everywhere, and since it was first to make hard-cover press, is taken as something akin to holy writ where other approaches have not yet penetrated.

In answer to your Manihot questions, I have the following point-by-point answers to give, with tail between legs:

1. The numbering was not a transposition; a specimen of 8539, which we failed to send, is now on its way.
2. No. 14195 is Manihot but no root was collected; 14193 is Guttiferae, the root for which should be returned.
3. No stem was collected with 10937; 10930 is recorded as a fern in the field book, suggested your stem be returned to us.
4. Return root of 9772; it belongs to a Cassia (at least the herb. spec. is of that genus).
5. Specimen of 15516, not sent before, is on its way; 15576 is recorded here as Cyperaceae.
6. No. 11896 was a Manihot with root, but we haven't located exsiccatae (Jablonski may have received them in error); hold until we relocate. Both 11887 and 11896 were supplemented by wood samples, but the former is not indicated here as having been collected with root.

7. Strike out statement on label of 11113 regarding root; none was collected. No. 11450 was collected with root, but we have not yet located exsiccatae for this number; hold.

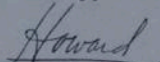
8. Suggest you return the roots with undecipherable numbers.

We are also sending, in addition to the two specimens mentioned above, one of 15529, erroneously omitted before, which was taken without roots. I'm sorry this developed into such a muddle, but I think we are closer to having it straightened out now.

Of course I'm interested in any such demonstration as you describe. I hope you can accompany the invitation with references to existing published data which I might use as preparation.

Our regards to Connie and the kids,

Sincerely,



Howard S. Irwin  
Head Curator

HSI:mi

April 17, 1968

Dr. Howard Irwin  
The New York Botanical Garden  
Bronx, New York 10458

Dear Howard:

Welcome back to New York. I've been waiting to add to your store of problems, of which I'm sure you have enough already.

Just recently we finished mounting all your collections of Manihot, including the root samples. We have encountered some problems when trying to match up root specimens (mounted on cardboard) with the regular specimens. These are as follows:

1. There are 3 root pieces with the following numbers. The 3 look similar.  
8359, 8539, 8539.

There is no herbarium specimen with the number 8539, but we do have one 8359. Was the numbering on the roots just a transposition?

2. One root is numbered 14193, but no herbarium specimen. We have specimen number 14195, but label on this plant does not indicate a root having been collected. From the looks of the specimen, root 14193 could go with 14195.

3. There is a stem piece with the number 10930. There is no herbarium specimen of this number, while the stem of #10937 is missing. Should stem piece 10930 go with specimen 10937?

4. There is a root with number 9772, but no herbarium specimen of this number. Did you collect a manihot with number 9772? Do we have it?

5. There is a root with the number 15516. There is no herbarium specimen of this number, while the root of #15576 is missing. Should 15516 be 15576?

6. We have a root number 11887. The label of 11887 says nothing about a root specimen. Root of 11896 is missing. Should root numbered 11887 go with specimen 11896?

7. Labels on specimens 14113 and 14450 indicate root collections, but we haven't located them. Are they kicking around in your store-room?

8. There are three root pieces with illegible numbers. Should we send these back to you to decipher?

I don't know whether you can get any answer to these questions since I have the specimens, but you might be able to check the numbers against your field book, and get some clues from that. Sorry to bother you with such details.

In another area, we are forging ahead with the production of a computer-oriented Info. Retr. system. Maybe by the end of the summer we'll have it running sufficiently well to give a demonstration of it, using our Manihot data in the demonstration. Are you interested? If so, we'll keep you informed when the demonstration will be made, and ask if you can come out to see it in operation. I think that's the best way for you to know what can and (so far) can't be done. Several other people will be invited.

It's snowing like hell right now--how's your weather.

Sinc.

# Root specimens

Iron	7977 ✓	16897 ✓
	8074 ✓	10937 ✓
ca 10 m NE of Brack	8359 ✓ 2	11046 ✓
	9053 ✓	11195 ✓
	9113 ✓	11243 ✓
	9166 ✓	11742 ✓
	9167 ✓	11755 ✓
	9421 - 2 ✓	11757 ✓
	9502 ✓	11850 ✓
	9704 ✓	11862 ✓
	9783 - 2 ✓	11887 ✓
	9906 ✓	12959 ✓
	9965 - 3 ✓	13636 ✓
	10014 ✓	14004 - 2 ✓
	10092 ✓	14609 ✓
	10164 ✓	14989 ✓
	10168 ✓	15250 ✓
	10263 ✓	15516 ✓
	10301 ✓	16210 ✓
	10480 ✓	
	10493 ✓	
	10551 ✓	
	10593 ✓	
	10715 ✓	
	10727 ✓	
	10769 ✓	
	- a	

No  
Roots

11896  
wood + root

14450

No legum

15576

? label

50

- Taxonomy Laboratory

July 21, 1966

Mr. Mac MacKeever  
The New York Botanical Garden  
Bronx Park  
Bronx, New York

Dear Mac:

Some time ago I think I indicated to you that I had made a search of my files and have not been able to locate the blue slips needed by your filing system. As I think I must have indicated to you earlier since I do not have these slips, I would be very pleased if you would send me Xerox copies of these blue shipping notices, and we'll be glad to sign those in place of the others. I hope this is satisfactory. It represents the best I can do. I hope the trip to your favorite island was successful. I am just back from a very unsuccessful trip to northwestern Mexico. We got there before the rains did, and as a result, no Manihot showed anywhere.

Best to everybody,

Sincerely,

David J. Rogers  
Professor of Botany

DJR:ch

6/8/66.

JUN 13 1966

Dear Dave —

Just a very hasty note, as I am so snowed under trying to close shops to get away for another collecting trip to my Feb I Lands. This is to let you know that we finally got an OK from Perdue to ~~transfer~~ their Manihot loan. Thus, it is on its way to you. All your loans have now been transferred!!! Now, would you PLEASE do your Old Uncle Mac a big, big favor and do your best to see that he receives back all the due slipping notices! This is so important to keeping my records A, ! — Do hope that you all are well and happy! If ever I can be of any help — just say so. Often think of you and wish I could find time to dash off a note, at least.

Very hastily  
Mac.

- Taximetrics Laboratory

May 31, 1967

Mr. Frank Mackeever  
New York Botanical Garden  
Bronx Park  
Bronx, New York 10458

Dear Mac:

I guess you must have given up on trying to get me to send you copies of the loan slips. I frankly can't find the things. If at all possible, please have copies made of your records on my loans and I will sign them. If any time or effort can be charged to this job, I will be glad to pay it.

As you know, we are moving from Fort Collins to the University of Colorado at Boulder. That is the outfit Bill Weber is with. We look forward to a profitable sojourn there. Unfortunately, things didn't work out too well here. Give my best to one and all there and especially to you.

Sincerely,

David J. Rogers  
Professor of Botany

DJR/ch

- Taximetrics Laboratory

March 29, 1967

Dr. Howard Irwin  
New York Botanical Garden  
Bronx Park  
Bronx, N.Y. 10458

Dear Howard:

A box of specimens arrived today. Since we are leaving Colorado State University and moving to University of Colorado, Boulder, Department of Biology on July 1, with your permission I will leave the specimens completely boxed and hope that you can assign them to the University of Colorado instead of Colorado State University. I will ask Bill Weber how to handle the specimens there.

The symposium is moving along well. Below is a tentative schedule:

1. Introduction - D. Rogers, University of Colorado, Boulder.
2. Mathematical models for taxonomy - G. Estabrook, University of Colorado, Boulder, 30 min.
3. Classification of Cassia, Section Apoucouits, using a graph theory model - H. Irwin, New York Botanical Garden, 30 min.
4. The genera of Chrysobalanaceae: a comparison of methods - G. France, New York Botanical Garden, 30 min.
5. A computer analysis of the species of Arceuthobium - F. Hawksworth, Colorado State University, Fort Collins, 30 min.
6. A computer analysis of populations of Iris missouriensis - H. Metcalf, Montana State University, Bozeman, 30 min.

The titles are also tentative. I set this up for the program chairman of the Biometrics Society. If the title does not suit you,

Dr. Howard Irwin

- 2 -

March 29, 1967

please feel free to change it. I am sure we will have to submit an abstract of the paper soon but just exactly when I do not know. I will let you know.

Sincerely,

David J. Rogers  
Professor of Botany

DJR:ch

THE NEW YORK BOTANICAL GARDEN  
BRONX • NEW YORK 10458  LU 4-8500

March 23, 1967

MAR 27 1967

Dr. David J. Rogers  
Taximetrics Laboratory  
Dept. of Botany & Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

Dear Dave:

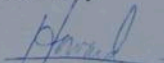
This announces shipment of the 1965-66 collections of Manihot which I earlier wrote about. Twelve of the collections are unicates and are on loan. The rest, some 79 collections, mostly accompanied by separate roots, are for your retention in return for the names. Any notes you may care to append to the determinations will be appreciated.

I have page proof of Irwin & Rogers Cassia II. Sect Apoucouita, and am just about to wade through it. I certainly appreciate the careful reading you gave the galleys; after this much exposure to this sort of paper, I get a bit punchy and very uncritical.

I recently got word from NSF that the four-year renewal of the Planalto Program has been approved, but the budget was cut way back. In addition they specifically deleted the item for computer time rental, commenting that it is really not part of the project. The budget cut came as no surprise, since it seems that everybody is getting the ax. But it looks as if some other way will have to be found to support the computer job. Do you have any others on the hook, i.e. with jobs that can best be done as taximetric studies but are as yet unsupported. What about a composite project? I would like to go ahead with this work, but since I am a practitioner and not a theorist in taximetrics, it seems, at this early stage at least, that the necessary fundamental work demonstrating the utility and advantages could best be argued at your end.

In this connection, I am increasingly worried about the time demands requisite in recording data. For the Apoucouita job, I spent over 500 hours examining specimens and recording data. For Absus, easily four times larger, I will have to limit computer study to certain complex species groups. Still, the time factor looms very large, and I am sure detractors are aware of this.


Cordially,



Howard S. Irwin  
Herbarium Administrator

HSI/dh

CABLE • NYBOTGARD • NEWYORK

THE NEW YORK BOTANICAL GARDEN  
BRONX • NEW YORK 10458  LU 4-8500

July 12, 1965


Dr. Lyman Benson  
Herbarium of Pomona College,  
Claremont, California

Dear Dr. Benson:


Dr. David J. Rogers will be transferring from The New York Botanical Garden to the Department of Botany, Colorado State University, Fort Collins, Colorado. I would appreciate it if you would authorize the transfer of your loan No. 169, consisting of 8 sheets of Manihot to that institution. The curator of the herbarium at Colorado State University is Professor C. D. Harrington, who will be responsible for the loan.

Your acquiescence to this request will enhance the opportunity to prepare a monograph of this difficult and important genus.

Sincerely yours,



Bassett Maguire  
Head Curator  
Coordinator of Tropical  
Research

THE NEW YORK BOTANICAL GARDEN  
BRONX • NEW YORK 10458  LU 4-8500

July 12, 1965

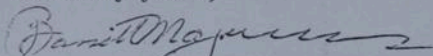
Dr. Grady Webster  
Department of Botany  
Purdue University  
Lafayette, Indiana

Dear Dr. Webster:

Dr. David J. Rogers will be transferring from The New York Botanical Garden to the Department of Botany, Colorado State University, Fort Collins, Colorado. I would appreciate it if you would authorize the transfer of your loan No. 16, consisting of 43 sheets of Manihot to that institution. The curator of the herbarium at Colorado State University is Professor C. D. Harrington, who will be responsible for the loan.

Your acquiescence to this request will enhance the opportunity to prepare a monograph of this difficult and important genus.

Sincerely yours,



Bassett Maguire  
Head Curator  
Coordinator of Tropical  
Research

# SHIPPING NOTICE

New York Botanical Garden  
Bronx Park  
New York 58, N. Y.

Date June 8, 1966

No. of Packages 1

To Professor C.D. Harrington  
Colorado State University  
Fort Collins, Colorado

Shipped by { Parcel post  
 Express prepaid  
Freight  collect

Att.: Dr. David J. Rogers

The New York Botanical Garden is sending you herbarium specimens as indicated below. Upon the arrival of the shipment, kindly verify its contents and *acknowledge by signing the blue sheet* and returning it to the Head Curator.

- (1) Gift.
- (2) Exchange.
- (3) For identification.
- (4) Return of borrowed material.
- (5) Loan no. .... Return is expected by prepaid express or parcel post before.....

## LOAN TRANSFER

*Your Copy*

Extension of this period may be granted on request to the Head Curator. The New York Botanical Garden will appreciate having every sheet of the loan annotated, and will be glad to receive a copy of the publication in which these specimens are mentioned. All material included in this loan must be returned at one time. Packing should be carefully done to avoid breakage of specimens.

The *pink duplicate sheet* is to be retained by the borrower as a record of the loan and is to be mailed under separate cover when the specimens are returned. The pink duplicate will be remailed to the borrower when the returned loan has been received and checked, indicating cancellation of the loan.

HEAD CURATOR.

## DESCRIPTION OF SPECIMENS

This is a transfer of the following material from this institution  
to the Department of Botany of the Colorado State University:

Loan No. 16 - 43 sheets of Manihot belonging to Purdue University,  
Lafayette, Indiana.

Received the above in good order

All correspondence concerning the herbarium should be  
addressed to the Head Curator.

.....  
Date

.....  
Signed

June 8, 1966

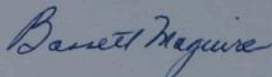
Professor C.D. Harrington  
Colorado State University  
Fort Collins, Colorado

Dear Professor Harrington:

As indicated on the attached shipping notice, we are forwarding to you 43 sheets of *Manihot* as listed. This material belongs to Perdue University, Lafayette, Indiana and the responsibility for them is transferred to your institution.

Please return the blue shipping notice to us.

Sincerely yours,



Bassett Maguire  
Head Curator

BM:dz  
Enc.

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
CROPS RESEARCH DIVISION

NATIONAL ARBORETUM

ADDRESS REPLY TO:  
UNITED STATES NATIONAL ARBORETUM  
WASHINGTON 25, D. C.

January 24, 1964

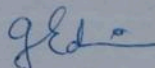
Dr. David Rogers  
New York Botanic Garden  
Bronx Park  
New York, New York

Dear Dr. Rogers:

Via parcel post in one box, fifty four (54) sheets of Manihot are on their way to you as a loan.

We trust the material will arrive in good order and will prove of benefit to your study.

Yours very truly



Gabriel Edwin  
Botanist

GE:im

November 5, 1970

Taximetrics Lab.  
Armory 101

Dr. F. G. Meyer  
The National Arboretum  
Washington, D.C. 20002

Dear Fred:

We are fast drawing up the last work on Manihot. To put the finishing touches on it, including proper annotation of the specimens, should require no more than a six month's extension of my long-overdue loan. Times certainly passes in a hurry!

I did receive enough money to do the job, but still have to keep running after funds to keep the computer work alive. That is a very expensive operation.

Did you get to the annual symposium in St. Louis this year? I was never notified of it, and feel somewhat "put out" that I didn't, particularly when I learned that this year was in honor of Andy.

Sincerely,

David J. Rogers  
Professor of Biology

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
CROPS RESEARCH DIVISION

NATIONAL ARBORETUM

ADDRESS REPLY TO:  
UNITED STATES NATIONAL ARBORETUM  
WASHINGTON, D.C. 20002

October 27, 1970

Dr. David J. Rogers  
Taximetrics Laboratory  
Department of Biology  
Armory 101  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

According to our loan files, we sent to you 54 sheets of Manihot on January 24, 1964. This is merely a routine check on all loans over three years old. If you are finished with the material, please return it. Normally, extensions are made on a six month basis, if you still need the material for study.

How are things going with you? Did you get your needed funds?

Sincerely,



Frederick G. Meyer  
Research Botanist  
In Charge of the Herbarium

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
CROPS RESEARCH DIVISION

NATIONAL ARBORETUM

ADDRESS REPLY TO:  
UNITED STATES NATIONAL ARBORETUM  
WASHINGTON, D.C. 20002

November 12, 1970

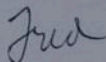
David J. Rogers  
Professor of Biology  
Taximetrics Lab.  
Armory 101  
University of Colorado  
Boulder, Colorado 80302

Dear Dave:

It is certainly alright to keep our material of Manihot until you have completed your project. This was just a routine check, which we really have to do from time to time with all loans.

I didn't get an invite either for the annual St. Louis symposium.

Sincerely,



Frederick G. Meyer  
Research Botanist  
In Charge of the Herbarium

Paris, 14<sup>th</sup> September 1969

Mr Lesieur

Dear Dr Rogers,

I returned from England last Mon-  
day and did my best to speed out your  
loan. Thanks for your kindest letter.

We are sending to you 229 specimens  
and to-day I gave to Mlle Tardieu the draft  
of the official letter. I hope all will work  
all right with you and the specimens.

If you have any reprints of your pa-  
pers I shall greatly appreciate them -

Greetings to the friends and to your  
daughter.

Sincerely yours

Julie Lowrey  
(Maison de Recherches)

B.G. - Rd.

23 de agosto de 1961

Carta D.J.B. nº

Ilmo. Sr.  
Bassett Maguire, Curator  
Coordinator of Tropical Research  
The New York Botanical Garden  
Bronx Park  
New York, 58 - N.Y.  
U.S. A.

Prezado Senhor

Atendendo ao pedido de V.S., envio-lhe, nesta data, a título de empréstimo, 50 unidades de espécimes de Manihot do nosso Herbário.

O tempo de duração desse empréstimo será de 6 meses a partir da data de recebimento.

Ao dispor de V.S., muito atentamente,

---

Dárdano de A. Lima  
Diretor

Proc. D.J.B. nº 78/61  
GMP/IWD

RECEIVED

10-13-61

THE NEW YORK BOTANICAL GARDEN

PLEASE RETURN

MINISTÉRIO DA AGRICULTURA  
JARDIM BOTÂNICO DO RIO DE JANEIRO  
Seção de Botânica Sistemática

Guia de Remessa nº 20/61  
Em 23 de agosto de 1961  
Número de volumes: 2  
Despachado por:

Ao Sr. Bassett Maguire  
Criador do  
The New York Botanical Garden  
Bronx Park - New York 58-N.Y.  
U.S.A.

Nesta data estamos lhe remetendo 50  
exemplos de unicatas do nosso Herbário:

Prazo de empréstimo 6 (seis) meses.

Descrição do material:

Manihot: Indeterminados

RB. 20734-20746-20742-20735-20752-39398-35706-

48232-55364-55731-59226-61605-62851-77694-77745-

78649-88627-93562-95222-96583-95925-95925 A-

103351-103352-10542-11230.

Manihot: Determinado.

RB. 70931-42390-70930-49892-23524-16284-20736-

54411-44559-105932-57193-104294-20748-49906-71316-

20751-35259-27216-70923-20732-20731-20730-27217-

27219.

Recebi o material em boas condições

Em / /1961

45922 ←

= 71694  
Poor A - *sumedged*

Taximetrics Laboratory

Armory 101

3 June, 1970

C Dr. Tatiana Sendulsky  
Curator  
Instituto de Botanica  
Caixa Postal 4005  
Sao Paulo  
Brasil

Dear Dr. Sendulsky:

This is to acknowledge with thanks the receipt of the Manihot specimens (as per the list enclosed) in good condition.

Sincerely

David J. Rogers  
Professor of Biology

INSTITUTO DE BOTÂNICA  
CURADORIA DO HERBÁRIO

SCH. 120/69

São Paulo, 15 de Dezembro de 1969.

Relação de material do gênero MANIHOT enviado ao  
David J. Rogers University of Colorado, para estudo  
científico, a título de empréstimo.

1	✓	COL.: A.S.Lima, s/nº	-	Manihot catingae Ule.	SP.49371
2	✓	Neusa D.Cruz, 110	-	" " dichotoma Ule.	SP.84854
3	✓	" " " 109	-	" " " " "	SP.84855
✓ 3 sheets	✓	" " " 104	-	" " dulcis (J.F.Gmel) Pax.	SP.80254
5	✓	" " " 114	-	" " " " " "	SP.84852
6	✓	Albert Loefgren, s/nº	-	" " affinis	SP.31447
7	✓	Loefgren & Edwall	-	" " elegans Muell. Arg.	SP.31465
10	✓	Amaro Macêdo, 3142	-	" " " " " "	SP.68453
11	✓	N.D.Cruz, 113	-	" " esculenta Crantz.	SP.84845
✓ 8 sheets	✓	Marilêa S.Labouriau	-	" " " " "	SP.99435
12	✓	" " " "	-	" " " " "	SP.99436
15	✓	A.P.Viegas & J.Kiehl.	-	" " glaziiovii Muell. Arg.	SP.42032
16	✓	Josê Deslandes, 189	-	" " " " " "	SP.45303
✓ 3 sheets	✓	Neusa D.Cruz, 117	-	" " " " " "	SP.84844
17	✓	Guilherme Gehrt.	-	" " gracilis (Pohl emend.) Muell. Arg.	SP. 4048
20	✓	Amaro Macêdo, 3473	-	" " " " " " "	SP.68460
21	✓	" " " 4651	-	" " " " " " "	SP.81555
22	✓	Neusa D.Cruz, 125	-	" " " " " " " "	SP.84847
✓ 3 sheets	✓	Moysês Kuhlmann, s/nº	-	" " handroana N.D.Cruz sp. nov.	SP.44421
25	✓	A.C.Brade, s/nº	-	" " humilis Muell. Arg.	SP. 7165
26	✓	Jm. F.Toledo & A. Gehrt.	-	" " " " " " "	SP.43213
27	✓	M.Kuhlmann, 2889	-	" " " " " " "	SP.75901
28	✓	N.D.Cruz, 123	-	" " " " " " "	SP.84978
29	✓	M.Kuhlmann, 2751	-	" " langsdorffii Muell. Arg.	SP.75902
30	✓	M.Kuhlmann	-	" " jolyana N.D.Cruz	SP.59661
✓ 4 sheets	✓	N.D. Cruz, 103	-	" " " " " " "	SP.80255
31	✓	Augusto Gehrt	-	" " pardalina Mulle. Arg.	SP. 3732
32	✓	Bento Pickel, 632	-	" " mossamedensis Taubert.	SP.14554
33	✓	O.T.Mendes	-	" " pavoniana Muell. Arg.	SP.43923
34	✓	F.C.Hoehne	-	" " pedicellaris M. Arg.	SP. 2907
35	✓	Campos Novaes, 926	-	" " " " " " "	SP.31442
36	✓	M.Kuhlmann & A.Gehrt.	-	" " " " " " "	SP.40021
37	✓	J.B.Castro & J.Kiehl.	-	" " " " " " "	SP.42010

44	✓	COL.: C.A.Krug, s/nº	-	Manihot pedicellaris M. Arg.	SP.42139
45	✓	A.P.Viegas, s/nº	-	" " " " " "	SP.48860
✓ 2 Sheets	✓	Neusa D.Cruz, 116	-	" " " " " "	SP.84850
47	✓	Amaro Macêdo, 4390	-	" " procumbens Muell. Arg.	SP.68641
49	✓	Alberto Loefgren, s/nº	-	" " sinuata Pohl.	SP.31446
50	✓	A.Gehrt.	-	" " tomentosa Pohl.	SP. 3197
51	✓	A.B.Joly, 1139	-	" " trichandra Pax et K.Hoffm.	SP.58712
52	✓	F.C.Hoehne	-	" " tripartita (Spreng.) M.Arg.	SP. 5067
53	✓	Alberto Loefgren	-	" " " " " "	SP.13814
54	✓	" "	-	" " " " " "	SP.31454
55	✓	Vicente Assis, nº 244	-	" " " " " "	SP.35424
56	✓	A.S.Lima	-	" " " " " "	SP.52658
57	✓	Neusa D.Cruz, 120	-	" " " " " "	SP.84849
✓ 2 Sheets	✓	" " " " 126	-	" " " " " "	SP.93926
60	✓	Grand Uff.	-	" " tweediana Mulle. Arg.	SP.22253
61	✓	J.B.Castro	-	" " " " " "	SP.42142
62	✓	A.P.Viegas	-	" " " " " "	SP.48858
✓ 2 Sheets	✓	Neusa D.Cruz, 119	-	" " " " " "	SP.84851
		J.M.Sampaio, 36	-	" " utilisissima Pohl.	SP.27603
		A.Gehrt.	-	" " " " " "	SP.27734
		" " "	-	" " " " " "	SP.27736
		" " "	-	" " " " " "	SP.27739
		R.von Ilhering, 25	-	" " " " " "	SP.30345
		F.C.Hoehne	-	" " " " " "	SP.30348
		A.Gehrt.	-	" " " " " "	SP.33256
65	✓	Ozorio Freitas	-	" " violacea Mull. Arg.	SP.44679
		?	-	" " Indeterminada	SP.13848
66	✓	Guenther Tessmann	-	" " " " "	SP.48172
67	✓	M.Kuhlmann	-	" " " " "	SP.44810
68	✓	A.P.Viegas	-	" " " " "	SP.48840
69	✓	E.Normanha	-	" " " " "	SP.48844
70	✓	A.P.Viegas	-	" " " " "	SP.48855
71	✓	" " "	-	" " " " "	SP.48856
72	✓	" " "	-	" " " " "	SP.48857
73	✓	" " "	-	" " " " "	SP.48859
74	✓	J.P.Caldas	-	" " " " "	SP.48861
75	✓	J.Mattos 10208	-	" " " " "	SP.76125
76	✓	L.Labouriau & Válio	-	" " " " "	SP.77498
77	✓	" " " " "	-	" " " " "	SP.77555
78	✓	José C.Gomes Jr.2205	-	" " " " "	SP.80551
✓ 2 Sheets	✓	Neusa D.Cruz, 105	-	" " " " "	SP.81059

*Tatiana Sendulsky*

Recebi o material em boas condições

Tatiana Sendulsky

OBS.: Os números SP. 27603, 27734, 27736, 27739, 30345, 30348, 33256 e 13848.

INSTITUTO DE BOTÂNICA  
CURADORIA DO HERBÁRIO

São Paulo, 12 de janeiro de 1965.

BCA.7/65

Relação de material entregue a Heras Dias da Cruz, para estudo.

Col.: N.D.Cruz nº 104	Euphorbiaceae	- Manihot sp.	SP.80254
" " " " 103	" "	- " "	SP.80255
" M.Kuhlmann s/nº	" "	- Manihot tripartita (Spr.) M.Arg.	SP.59661
" " " "	" "	- Indet.	SP.44421
" A.Gehrt "	" "	- Manihot utilisissima Pohl. var. skitsambo?	SP.27739
" O.T.Mendes "	" "	- Manihot sp.	SP.43923
" G.Gehrt "	" "	- Manihot varians Pohl.	SP.4048
" A.Macêdo nº 2473	" "	- Manihot sp.	SP.68180
" R.von Ihering nº 25	" "	- Manihot utilisissima Pohl.	SP.30345
" M.Kuhlmann s/nº	" "	- Manihot sp.	SP.44810
" B.Pickel nº 632	" "	- Manihot sp.	SP.14554
" A.S.Lima s/nº	" "	- Manihot catingae Ule	SP.49371
" A.S.Lima "	" "	- Manihot tripartita (Spreng) M.Hell.Arg.	SP.52658
" A.P.Viegas s/nº	" "	- Manihot tweediana Muell. Arg.	SP.48858
" J.B.Castro & J.Kiehl s/nº	" "	- " " " "	SP.42142
" Grand Off. Lincoln Wardari s/nº	" "	- " " " "	SP.22253
" A.P.Viegas "	" "	- Manihot pedicellaris Muell. Arg. forma pubescens	SP.48860
" M.Kuhlmann & A.Gehrt s/nº	" "	- Manihot pedicellaris M.Arg.	SP.40021
" J.B.Castro & J.Kiehl s/nº	" "	- " " " "	SP.42010
" F.C.Hoehne s/nº	" "	- " " " "	SP.2907
" C.A.Krug "	" "	- Manihot pedicellaris Muell. Arg. forma pubescens	SP.42139
" C.Horvath s/nº	" "	- Manihot pedicellaris M.Arg.	SP.31442
" A.P.Viegas & J.Kiehl s/nº	" "	- Manihot glaziovii Muell.Arg.	SP.42032
" A.Löfgren s/nº	" "	- Manihot tripartita M.Arg.	SP.31446
" A.B.Joly nº 1139	" "	- Indet.	SP.58712
" J.Deslandes nº 189	" "	- Manihot glaziovii M.Arg.	SP.45303
" A.C.Brade s/nº	" "	- Manihot humilis M.Arg.	SP.7165
" J.P.Toledo & A.Gehrt s/nº	" "	- Manihot humilis M.Arg.	SP.43213
" A.Gehrt s/nº	" "	- Manihot utilisissima Pohl. var. Müllg.	SP.27734
" O.Freitas s/nº	" "	- Manihot violacea (Pohl.) M.Arg.	SP.44679
" G.Tessmann nº 6012	" "	- Manihot sp.	SP.48172
" A.P.Viegas s/nº	" "	- " " "	SP.48899
" " " "	" "	- " " "	SP.48856
" " " "	" "	- " " "	SP.48857
" A.Macêdo nº 3142	" "	- Manihot elegans M.Arg.	SP.68453
" " " " 4390	" "	- Manihot procumbens M.Arg.	SP.68641
" Löfgren s/nº	" "	- Manihot affinis Fax et L.Hoffm.	SP.31447
" A.P.Viegas s/nº	" "	- Manihot sp.	SP.48840
" E.Hormonha s/nº	" "	- " " "	SP.48844
" M.Kuhlmann nº 2751	" "	- " " "	SP.75902
" A.Gehrt s/nº	" "	- Manihot utilisissima Pohl. var. nokitibaungs.	SP.27736

Col.	Author	n/nº	Euphorbiaceae	Species	SP.
"	A. Gehrt	n/nº	"	- <i>Manihot utilisima</i> Pohl.	SP. 33256
"	J. M. Sampaio	"	"	- <i>Manihot utilisima</i> Pohl.	
"	F. C. Hoehne	n/nº	"	var. <i>mekitibauana</i>	SP. 27603
"	M. Kuhlmann	nº 2889	"	- <i>Manihot utilisima</i> Pohl.	SP. 30348
"	Löfgren & Edwall	n/n.	"	- <i>Manihot</i> sp.	SP. 75901
"	A. Gehrt	n/nº	"	- <i>Manihot elegans</i> M. Arg.	SP. 31465
"	J. P. Coidas	n/nº	"	- <i>Manihot tomentosa</i> Pohl.	SP. 3197
"	A. P. Viçegas	n/nº	"	- <i>Manihot</i> sp.	SP. 48863
"	F. C. Hoehne	n/nº	"	- " " "	SP. 48855
"	A. Löfgren	"	"	- <i>Manihot tripartita</i> M. Arg.	SP. 8867
"	A. Löfgren	"	"	- <i>Manihot tripartita</i> (Sprg.)	
"	A. Löfgren	"	"	M. Arg. var. <i>dalechampiaefor-</i>	
"	V. Assis	nº 244	"	mis (Pohl.) Pax.	SP. 13814
"	A. Gehrt	n/nº	"	- <i>Manihot tripartita</i> M. Arg.	SP. 31454
"	J. C. Gomes Jr.	nº 2205	"	- <i>Manihot tripartita</i> (Sprg.)	
"	H. Loederswaldt	n/nº	"	M. Arg.	SP. 35424
"			"	- <i>Manihot pardina</i> Muell. Arg.	SP. 3732
"			"	- <i>Manihot</i> sp.	SP. 80551
"			"	- <i>Manihot utilisima</i> Pohl.	SP. 13848

O material acima relacionado ficará em meu poder até terminar seu estudo.

Neuse Diniz da Cruz

jbf.

May 6, 1969

Dr. Tatiana Sendulsky  
Instituto de Botanica  
Caixa Postal 4005 - Sao Paulo  
Estado de Sao Paulo - Brasil

Dear Dr. Sendulsky,

Thank you for your letter of 6th May. I shall be grateful to receive all the Manihot specimens with the exception of the ones which have been crossed out in the list, enclosed herewith.

Sincerely yours,

David J. Rogers

MAY 13 1969

SECRETARIA DA AGRICULTURA  
INSTITUTO DE BOTÂNICA  
CAIXA POSTAL 4005 — SÃO PAULO  
ESTADO DE SÃO PAULO — BRASIL

SCH/ N.º 29/1969

São Paulo, 6 de maio de 1969.

Dr. David J. Rogers  
Professor of Biology  
University of Colorado Museum  
Boulder, Colorado 80302  
U.S.A.

Dear Prof. Rogers,

With reference to your letter of 5 February I want to inform you that all herbarium specimens of Manihot is on its way back to our Herbarium.

The material of Manihot was on loan with Miss Neusa Dinis da Cruz in Campinas. As soon as I receive the material I will send it to you.

Meanwhile I am sending you the copy of a list that was with Miss Neusa. Write me please in case you choose some numbers only or if you are interested in whole collection.

Sincerely yours,

*Tatiana Sendulsky*  
Tatiana Sendulsky  
Curator

Instituto de Botânica  
de São Paulo  
Curadoria de Herbário

Dec. 17, 1969

Dr. David J. Rogers  
University of Colorado  
Department of Biology  
Boulder, Colorado 80302

Dear Sir,

We have the pleasure to inform you that the material of Manihot is prepared to be send in few days. We are very sorry for this delay, but the material came back last week. Your list was typed entire and at the last moment we have noticed your require not to send <sup>4</sup> some numbers which ~~were~~ crossed out from your list.

Sincerely yours

*Tatiana Sendulsky*  
Tatiana Sendulsky

241000

SMITHSONIAN INSTITUTION  
UNITED STATES NATIONAL MUSEUM  
WASHINGTON 25, D. C.

March 22, 1962

Dr. David J. Rogers  
The New York Botanical Garden  
Bronx Park  
New York 58, New York

Dear Dave:

We are now sending you the 361 specimens of  
Manihot which you selected on your recent visit.  
Hoping they arrive shortly and prove useful,

Sincerely yours,

*Lyman*

Lyman B. Smith  
Curator  
Division of Phanerogams

Enclosure

SMITHSONIAN INSTITUTION  
UNITED STATES NATIONAL MUSEUM  
WASHINGTON, D. C. 20560

August 5, 1965

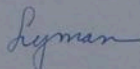
Dr. David J. Rogers  
New York Botanical Garden  
Bronx Park  
New York, New York 10458

Dear Dave:

Many thanks for your letter of July 27 and the encouraging word on the return of our Manihot loan. I like your approach to computer research and wish you all success.

Thanks also for the info on Manihot grahamii and M. flabellifolia.

Sincerely,



Lyman B. Smith  
Curator  
Division of Phanerogams

July 27, 1965

Dr. Lyman B. Smith, Curator  
Division of Phanerogams  
Smithsonian Institution  
Washington, D. C. 20560

Dear Lyman:

Thank you for your approval of the transfer of the Manihot specimens to Colorado State University. We are in the process at the moment of clearing the loan from the records here before transferring them. We will finish this job shortly then send them on out to Colorado.

I had hoped to finish up the genus before my departure from NYBG. However, I could not quite finish up, and would not be able to give accurate annotations quite yet. I am sorry that the loan has been outstanding for such an untimely period. I have been side-tracked, as you probably know, trying to find some adequate procedures to use an electronic computer as an aid to the taxonomist. I have not tried to use a computer to force an entirely new type of classification, but rather have tried to find out how the taxonomist actually goes about decision-making on taxa. Trying to emulate the taxonomist is more difficult than autocratically establishing a "new classification." I think we have succeeded partially in producing a method which will bolster the taxonomists' judgements and decisions. I have now to test my ideas on the Manihot material, and between the testing and data accumulation for the testing, have been delayed longer than would have been true had I gone on with tested methods. However, having done the job with the computer, we should all benefit by having better use of the hardware, and a better chance to explain our taxonomic decisions.

Your specimens from Santa Catarina, now labelled M. grahamii, will probably be M. flabellifolia Pohl, along with all those specimens labelled M. tweediana. Your plants were correctly named in that they agree with the type material of M. grahamii, but the name is synonymous with Pohl's earlier epithet.

Yes, I can identify material before completion of my paper, and I will be glad to do so. Just send it to me at Ft. Collins after Sept. 1, and I will name it for you.

Thank you for your considerations.

Sincerely yours,

David J. Rogers

SMITHSONIAN INSTITUTION  
UNITED STATES NATIONAL MUSEUM  
WASHINGTON, D. C. 20560

241000

July 20, 1965

Dr. David J. Rogers  
Department of Botany  
Colorado State University  
Fort Collins, Colorado

Dear Dr. Rogers:

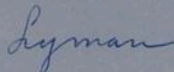
I have just transferred our Manihot loan to you at Colorado State University as per the enclosed copy. This raises several questions:

What are the prospects of your returning our material, which has been out long beyond the usual period?

Can you identify material for us and report before the completion of your paper?

What are you naming my material from Santa Catarina, Brazil, that I call Manihot grahamii? If another name, is it a case of misdetermination or synonymy. I am collecting notes for a revision of my Santa Catarina Euphorbiaceae.

Sincerely yours,



Lyman B. Smith  
Curator  
Division of Phanerogams

Enclosure

SMITHSONIAN INSTITUTION  
UNITED STATES NATIONAL MUSEUM  
WASHINGTON, D. C. 20560

241000

July 20, 1965

Dr. Bassett Maguire  
New York Botanical Garden  
Bronx Park  
New York, New York 10458

Dear Bassett:

In answer to your request of July 12 we are transferring our loan 62-180 (7835) of 363 sheets of *Manihot* from the New York Botanical Garden to the Department of Botany, Colorado State University, Fort Collins, Colorado for the use of Dr. David J. Rogers.

Sincerely yours,

Lyman B. Smith  
Curator  
Division of Phanerogams

cc: Dr. David J. Rogers

62-180

241000

July 20, 1965

Dr. Bassett Maguire  
New York Botanical Garden  
Bronx Park  
New York, New York 10458

Dear Bassett:

In answer to your request of July 12 we are transferring our loan 62-180 (7835) of 363 sheets of Manihot from the New York Botanical Garden to the Department of Botany, Colorado State University, Fort Collins, Colorado for the use of Dr. David J. Rogers.

Sincerely yours,

Lyman B. Smith  
Curator  
Division of Phanerogams

cc: Dr. David J. Rogers

LESmith/chl

UNIVERSITY OF



HERBARIUM

B. L. TURNER  
DIRECTOR

THE UNIVERSITY OF TEXAS  
BOTANICAL LABORATORIES  
Austin 12, Texas

B. C. THARP  
DIRECTOR EMERITUS

29 May 1967

Dr. David J. Rogers  
Taximetrics Laboratory  
Dept. of Botany and Plant Pathology  
Colorado State University  
Fort Collins, Colorado 80521

DATE

### SHIPPING NOTICE

Specimens indicated below are being sent you, by parcel post.  
Upon arrival of the shipment, kindly verify its contents and acknowledge receipt by signing and re-  
turning the duplicate.

.....Sheets on exchange.      Prior balance.....      Present balance.....

.....For determination.      .....Gift.

.....Return of borrowed specimens.      XX.....Loan (See enclosed list.)

.....Return of specimens sent for determination.....

Loans are made for a period of six months. When circumstances warrant, the loan period may be extended. Specimens should be returned by insured parcel post or by prepaid express. All material of this loan should be returned at the same time. Each sheet bears a penciled serial number in the lower left corner to facilitate checking the shipment. It is requested that the sheets be arranged in serial order for return. Any notes or changes of name should be written on annotation labels rather than directly on the sheets. Reprints dealing with taxonomic groups will be appreciated.

---

#### DESCRIPTION OF SPECIMENS

9 sheets *Manihot*.

ORIGINAL—This copy to be retained for your records

Manihot specimens on loan from the University of Texas Herbarium, Biological Laboratories Building, The University of Texas, Austin, Texas 78712. (As of May 17, 1967, we are unable to locate in our files the original list.) The following list was obtained by going through our 3 x 5 Manihot specimen file.

1. Barkley, Fred A. 13605  
M. walkerae Croizat  
Texas, Travis County, Aug. 6, 1943
2. Bertoni 2299  
M. tweediana M. Arg.  
Argentina, Misiones, Tranchelaria, Gaupa(?), 1 XI 1945
3. Crisman, G. E. & Willis, W. D. 206  
M.  
Mexico, Guerrero, Ocotito, 13 June 1954
4. Crutchfield, J. & Johnston, M.C. 5460A  
M. walkerae Croizat  
Mexico, Nuevo Leon, Mamulique Pass, 23 mi. S. of Sabinas  
Hidalgo, on Monterrey highway, May 4, 1960.
5. Crutchfield, J. & Johnston, M.C. 5523  
M. walkerae Croizat  
Mexico, Tamaulipas, 16 m. E. of S. Fernando-Santander  
Jimenez h'way. 15 Sept. 1960.
6. Crutchfield, J. & Johnston, M.C. 5572B  
M. walkerae Croizat  
Mexico, Tamaulipas, Papalote de la Mirandena, 3 mi. S.-  
SW of Loreto Ranch, 16 Sept., 1960
7. Crutchfield, J. & Johnston, M.C. 5784E  
M. walkerae Croizat  
Mexico, Tamaulipas, 5 mi. E. of Casas on new Victoria-Soto  
la Marina H'way, 28 Sept. 1960.
8. Edwards, M. T. 411  
(Taylor, Mary)  
M. angustiloba  
Mexico, Lampazos, Nuevo Leon, 6-29-37
9. Graham, J. & Johnston, M. C. 4721B  
M. walkerae Croizat  
Mexico, Tamaulipas, 23 mi. So. of Victoria, Nov. 15, 1959
10. Herald, D. F. & Clark, E. E. 349  
M.  
Mexico, Guerrero, 1 mi. N of Acahuizatla, 27 June, 1954

Texas Manihot specimens continued:

11. Johnston, M.C. 5363B  
M. walkerae Croizat  
Mexico, Tamaulipas, sanday prairies overlying caliche  
on the Rancho Loreto. April 26, 1960
12. King, Robert Merrill #1213  
M. carthaginensis (Jacq.) M. Arg.  
Mexico, Isthmus of Tehuantepec. 1 July 1959
13. Lesueur, Harde 246  
M. angustiloba  
Mexico, Tamps., Mts. west of Bustamente, '38
14. Lesueur, Harde 1249  
M. isoloba  
Mex., Chihuahua, Rio Aras, 8/6/37
15. Mexia, Ynes 4153  
M. dulcis  
Brazil, Minas Geraes, Road from Vicosa to Sao Miguel, Km.  
20., Dec. 23, 1929
16. Palacios, M. A. 23  
M. tweediana  
Argentina, Isla Martin Garcia, 21- Xii-1946
17. Pennington, C. 82  
M. sp. (not Manihot = Jatropha)  
Mexico, Chihuahua, downslope from Guagueybo, 3 Apr. 1955
18. Schwarz, J. 5199  
M. \_\_\_\_\_  
Argentina, Misiones, San Ignacio, Gobernador Roca,  
18 XI, 1947
19. Schwarz, G. J. 6369  
M. tweediana  
Argentina, Misiones, San Ignacio, Gob. Roca 13-10-48
20. Yuncker, T. G. 10089  
M. esculenta Crantz  
Pacific Ocean, Niue Island, 2 mi. E. of Alofi village  
Feb. 6, 1940
21. Walker, E. J. s.n.  
M. walkerae Croizat  
Texas, La Joya, 10,22,41
22. Wornock, B. H. and Barkley, F. A. 13070  
M. carthaginensis (M. walkerae Croizat)  
US, Tex, Travis County

Specimens #1, 17, 21, 22 were returned by request 5/17/67.

**BOTANISCH MUSEUM EN HERBARIUM VAN DE RIJKSUNIVERSITEIT, UTRECHT**  
 BOTANICAL MUSEUM AND HERBARIUM OF THE STATE UNIVERSITY, UTRECHT  
 LANGE NIEUWSTRAAT 106, UTRECHT, NETHERLANDS

Utrecht 18 - 4 - 1969,

No. 1131

Loan to **Dr. Wm. Weber, Curator**  
**Museum University of Colorado**  
**Boulder, Colorado 80302,**  
**U. S. A.**

This list is to be retained by the  
 borrower as a record of the loan.

MANIHOT for the attention of Dr. David J. Rogers.

✓1.	Manihot	carthaginensis	8778	Y. Mexia.	940
✓2.	"	parvicocca	8029	G. B. Hinton.	939
✓3.	"	carthaginensis	534	A. L. Stoffers.	3264
✓4.	"	"	7420	Boldingh.	3265 - collm 7430 not 7420
✓5.	"	brachyloba	6311	Krukoff.	2389
✓6.	"	dulcis	1649	"	2390
✓7.	"	"	23862	R. L. Fröes.	2391
✓8.	"	"	11545	Fröes.	2392
✓9.	"	"	4109	Mexia.	2393
✓10.	"	esculenta	2778	B. W.	3266
✓11.	"	"	2845	B. W.	3267
✓12.	"	"	2873	B. W.	3268
✓13.	"	"	2841	B. W.	3269
✓14.	"	"	2785	B. W.	3270
✓15.	"	melanobasis	464	H. E. Rombouts.	3271
✓16.	"	"	409	"	3272
✓17.	"	"	409	Lanjouw, J. & W. A. E. v. Donselaar t. B. H.	3273
✓18.	"	"	409	Rombouts.	3274
✓19.	"	glaziovii	972	J. Coêlho de Moraes.	2394
✓20.	"	saxicola	6331	Stahel & Gonggrip.	3275. coll. in B. W. type
✓21.	"	"	801	Versteeg.	3276
✓22.	"	"	955	J. Lanjouw.	3277
✓23.	"	"	955	"	3278
✓24.	"	"	213	A. Pulle.	3280
✓25.	"	"	922	Alg. proefst. Landbouw.	3282
✓26.	"	"	419	Versteeg.	3281
✓27.	"	"	107	Stahel.	3283
✓28.	"	"	10593	J. Schulz & J. v. Donselaar.	
✓29.	"	"	"	"	"
✓30.	"	"	955	J. Lanjouw.	3279
✓31.	"	"	10603	Schulz & v. Donselaar.	3286
✓32.	"	sp.	20234	R. L. Fröes.	2395
✓33.	"	sp.	17	J. M. Pires.	2396
✓34.	"	sp.	215	T. Guedes.	2397
✓35.	"	<del>23548</del> sp.	23548	Fröes.	2398
✓36.	"	sp.	1480	J. M. Pires & G. Black.	2399
✓37.	"	Yquilla	365	H. H. Smith.	3287
✓38.	"	glabrata	6709	J. Steinbach.	3288
✓39.	"	recognita	1550	A. G. Schulz.	3289
✓40.	"	"	1551	"	3290
✓41.	"	"	1551	"	3291
✓42.	"	"	1551	"	3292
✓43.	"	tweediana	5463	T. Meyer.	3293
✓44.	"	"	5850	"	3294
✓45.	"	"	1766	Ibanola ?	3295
✓46.	"	"	5421	T. Meyer.	3296
✓47.	"	sp.	1857	J. M. Pires.	2400
✓48.	"	sp.	1857	"	2401

BOTANISCH MUSEUM EN HERBARIUM  
van de Rijksuniversiteit te Utrecht  
Lange Nieuwstraat 106  
UTRECHT, Nederland

To Dr. Wm. Weber, Curator  
Museum, University  
of Colorado,  
Boulder, COLORADO 80302  
U. S. A.

Date 18 - 4 - 1969,

The Botanisch Museum en Herbarium of the State University of Utrecht is sending  
you, by parcel post, ~~weight~~ in one box, herbarium material  
as indicated below.

The material is sent as:

- XXX (1) Loan No. 1131 at your request  
at our request for identification
- (2) Return of material borrowed
- (3) A gift

You are requested to verify the contents of this shipment upon its arrival and  
acknowledge receipt by signing this form and returning it to the Curator.

**Description of specimens**

48 specimens of MANIHOT, for the attention  
of Dr. David J. Rogers.

Received the above in good order

SIGNATURE

Wm. A. Weber

DATE AND ADDRESS

May 21, 1969

original mailed to Utrecht 5-22-69

DS

BOTANISCH MUSEUM EN HERBARIUM VAN DE RIJKSUNIVERSITEIT TE UTRECHT  
BOTANICAL MUSEUM AND HERBARIUM OF THE STATE UNIVERSITY OF UTRECHT, NETHERLANDS

PROF. DR. J. LANJOUW, DIRECTOR  
PROF. DR. F. P. JONKER  
PROF. DR. F. A. STAFLEU

UTRECHT, April 18, 1969  
LANGE NIEUWSTRAAT 106

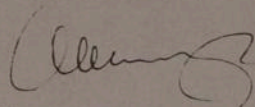
Dr. William A. Weber  
Curator of the Herbarium  
University of Colorado  
BOULDER, Color. 80302  
U.S.A.

Dear Sir,

A few days ago Dr. David J. Rogers was here. He got over our material of Manihot and selected 48 specimens to be sent on loan to Boulder. Today the box with this material has been dispatched.

Upon arrival please return us the signed form enclosed in this letter.

Yours sincerely,



Dr. Alberta M.W. Mennega  
acting curator

September 6, 1962

Dr. Leandro Aristeguieta  
Rec. Nat. Renov.  
~~Instituto Botanico~~  
~~Caracas, Venezuela~~

Dear Leandro:

The two packages of Manihot material have been received in good condition. Thank you very kindly for your initiative in sending this material to me.

The material will certainly be helpful to me. I hope to be able to prepare a monograph that will shed new light upon the relationships in this fantastic genus.

Sincerely yours

David J. Rogers  
Curator of Economic Botany

DJR:MDF

REPUBLICA DE VENEZUELA



MINISTERIO DE AGRICULTURA Y CRÍA

DIRECCION Rec. Nat. Renov.  
Instituto Botánico

Zona \_\_\_\_\_

No. \_\_\_\_\_

Caracas, 21 de agosto de 1962

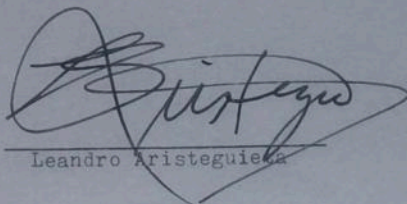
Dr. Dave Rogers  
The New York Botanical Garden  
Bronx Parx, New York. 58. New York.

Apreciado Dr. Rogers:

Por correo aéreo le estoy enviando dos especímenes montados de Manihot (L. Aristeguieta 542, 2234), que no se los enviamos cuando le hicimos el préstamo original de nuestros especímenes de Manihot.

Espero que sus investigaciones sobre este género hayan continuado progresando y que pronto veamos la monografía de este interesante grupo de plantas.

Atentamente,



Leandro Aristeguieta

LA/ss.

Al contestar este documento, sírvase mencionar la Dirección de donde procede, indicada en el membrete. Prohíbese so tratar más de un asunto en cada comunicación

REPUBLICA DE VENEZUELA



MINISTERIO DE AGRICULTURA Y CRÍA

DIRECCION Rec. Nat. Renov.  
Instituto Botánico

Zona \_\_\_\_\_

No. \_\_\_\_\_

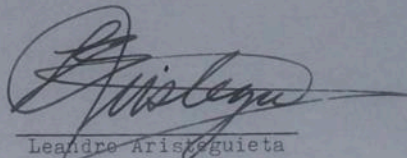
Caracas, 22 de agosto de 1962

Dr. Dave Rogers  
The New York Botanical Garden  
Bronx Park, New York 58. New York.

Apreciado Dr. Rogers:

Por correo aéreo le estoy enviando un espécimen de Manihot (L. Aristeguieta 4858). Esta planta proviene de las estacas que coleccionamos Julián, Ud. y yo durante su visita a nuestro país y que son idénticas a los especímenes que yo había coleccionado con anterioridad, provenientes de San Juan de Los Morros, Estado Guárico (L. Aristeguieta 4675). Espero que este material le sea de utilidad.

Reciba muchos saludos de su amigo,



Leandro Aristeguieta

LA/ss.

TAXIMETRICS LAB  
ARMORY 101

April 15, 1970

Dr. Tobias Lasser, Director  
Instituto Botanico  
Apartado 2156  
Caracas, Venezuela

Dear Dr. Lasser:

I deeply appreciate the loan of your valuable collection of Manihot, and am sorry that I have inconvenienced you so long with this loan. There have been many interruptions to my study of this genus, but we have just about completed the work.

Because of the complexity of the species, we have had to do a great amount of field work to get sufficient information to do a competent job. Until quite recently, one of the most severe handicaps was the absence of good collections from Brazil. Now that a number of collectors have been working there, particularly the botanists from the New York Botanical Garden, we have a sufficient collection to clarify many of the problems there.

Trusting that you can understand that we want to do a very good job in annotation, and in making an outstanding contribution to botanical knowledge, I humbly request that I be permitted to keep the collection until the first of September of this year. I guarantee the return of the specimens at that time.

Thank you for your patience. In the meantime, if there are specimens that need identification, I will be glad to do so.

Sincerely yours,

David J. Rogers  
Professor of Botany

REPUBLICA DE VENEZUELA



MINISTERIO DE AGRICULTURA Y CRIA

Instituto Botanico

Apartado 2156

DIRECCION

Caracas

March 23, 1970

No. ....

Dr. David J. Rogers  
Colorado State University  
Fort Collins, Colorado 80521

Dear Dr. Rogers:

I am writing you at this time to inquire about your progress in Manihot.

In 1962 our Instituto Botanico loaned you our material of this genus for study. I understand that the loan was transferred from the New York Botanical Garden to Colorado State University.

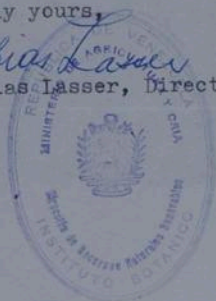
Would it be possible for you to return this loan now?

Trusting that this will not inconvenience you, and thanking you for your kind consideration,

Very sincerely yours,

*Tobias Lasser*

Tobias Lasser, Director



amento, sírvase mencionar la Dirección de donde proceda, indicadas en el membrete. Procédese no tratar más de un asunto en cada comunicación.

**The New York Botanical Garden**

Bronx Park, New York 58, N. Y.

(Fordham Branch P. O.)

Return Postage Guaranteed

Dr. Rogers'  
Loan Cards.  

---

*(Please Keep!)*

To → Dr. Rogers P  
Loan # (Cleared Mac.) 12/7/59  
8/9/65.  
69 St. Manilob.  
Sp.  
Gray Herb.  
Form Rel. Camb., Mass. DR

To → Dr. Rogers P  
Loan # 2 (Cleared Mac.) 1/17/60  
8/9/65.  
110 St. Manilob. Book  
Sp. 11/9/60  
Form Rel. Chic. Nat. Hist. Mus.  
Chicago, Ill.

To → Dr. Rogers P  
Loan # 26 (Cleared Mac.) 10/15/61.  
8/11/65  
229 St. Manilob.  
Sp.  
Form Rel. Mus. Nat. Hist. Natur.  
Paris, France. DR

Dave

Just for your info.

Mac

PLEASE!

Return my  
Blue Forms!

Rogers #2 - (Chicago # B-7898).

Chic. forms state they sent 109 specs. (Sheets).  
I received 110.

Rogers #10 - (Chicago # B-8338).

Chic. forms state they sent 355 specs. (Sheets).  
I received 357.

I acknowledged the count I received in both cases. Plus,  $110 + 357 = 467$  specs. (Sheets).

Before packing entire lot, I checked all Chic. markings and they seemed to belong all to Chic. 2 Sheets have penciled on them, however, "Chic." 1 Sheet has no markings (Hest. Stamp) - but, the paper matches an Arnold Arb. sheet. Also, "the style" of the numbers on that sheet matches the numbers employed by Chic. in the numbering of their sheets.

Now - after "a double count" of the entire lot - I came up with a count of 469 specs. (sheets).

Summary.

Chic. original sending stated -  $109 + 355$  or 464.

My count upon receipt -  $110 + 357$  or 467.

My count upon sending - 469 (as loans were not separated)

Thus - there are two sheets over count I received.  
Or - five over their original count.

TAXIMETRICS LAB  
ARMORY 100

April 15, 1970

Dr. A. J. Richards, Curator  
Fielding-Druce Herbarium  
University Dept. of Botany  
South Parks Road  
Oxford, England

Dear Dr. Richards:

The eleven sheets of Manihot from your collections are being returned. It has not been possible to annotate the sheets because our monographic studies of the genus Manihot are not yet complete. However, we will supply annotation labels for your specimens upon completion. Fortunately, we have duplicate material of all eleven sheets.

Thank you for the loan of this material.

Sincerely yours,

David J. Rogers  
Professor of Biology

FIELDING-DRUCE HERBARIUM,  
UNIVERSITY DEPARTMENT OF BOTANY,  
SOUTH PARKS ROAD,  
OXFORD, ENGLAND.

Date 28/6/69.....

TO: Prof. P.T. Rogers,  
Taxinometrics Lab,  
Dept. Biology,  
Armory 101,  
Univ. Colorado,  
Boulder,  
Colorado 80302

No.

The material listed below is being sent to you by mail in ... packages as:

LOAN

~~RETURN OF LOAN~~

~~EXCHANGE~~

~~RENT~~

DESCRIPTION OF SPECIMENS

Manchot 6 sheets.

" incerta 5 sheets

Our Comp. # 2418 - 2422  
3304 - 3309

Returned  
4/15/70

Correspondence and specimens  
should be sent to the above  
address and marked to the  
attention of A.S. Richards

To be returned within 6 months

Please sign and return one form  
Specimens received in good order

Signature D.I.R......

Date 9. June. 69.

Sherardian Professor  
C D Darlington



Botany School  
South Parks Road  
Oxford OX1 3RA  
Tel. Oxford 57857

Jan 29. 1970.

Dear Professor Rogers,

It seems that 11 sheets of Manihot spp.  
from the Fielding Merbanium were loaned to you  
in May 1969. We should be grateful for  
their return.

Yours sincerely,

A. Miller (Mrs)

pp. Dr A. J. Richards  
Curator.

# NOTES

Items 2418-2422 and 3304-3309 returned

to Fielding Drue herbarium (OXF)

2418 - Gardner 3446 - *M. ovumidatissima* - we have duplicates

2419 - Clausen s.n. *M. tomentos* - duplicates. 1394 + 1581

2420 - Spruce R. s.n. *M. parsonsii* duplicates - 1037 etc.  
(186-?).

2421 - Spruce R. s.n. *M. ullosim* or *M. digitiformis* duplicates. 1817 etc

2422 - Blomket 3324 - *M. tripartita* - duplicates. 1411 etc

3307 - Lamdenham 3371 - *domingensis* group duplicate. 2599.

<sup>3306</sup>  
~~3308~~ - Schomburgk 426. *melanobasis* - duplicate

~~3309~~ 3305 - Lamdenham s.n. *esulentis*.

~~3304~~ - 3309 - Funcke (?). 607. *carthaginensis* duplicate

3308 - Spruce 4287 - *Peruviana* duplicate

3304 - (coll. name illegible). Luschnaek (?).  
collen from Rio Janeiro. looks exactly like *Davies Collins* from  
Rio de Janeiro