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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.

GEORGE S. BASS

37 MT. VERNON ST.
BOSTON, MASS.
TEL. 227-0610

APARTADO AEREO 13768
BOGOTA, COLOMBIA
TELEFONO 42-33-85

*Marge - check the enclosed
list - do we have
them all?*

Mr. David Rogers
The New York Botanical Garden
Bronx Parkway
New York 58, N.Y.

*✓ - have
No - do not have*

29 April 1965

Dear Mr. Rogers,

I am still continuing my apprenticeship in your friend the yucca plant and I am fairly certain I have a good man to do the research job in Colombia this summer.

In the meantime I thought you might be interested in the listings I found in the N.Y. and Congressional libraries. I took down every listing - some in more complete form than others.

Sincerely,

George S. Bass

George S. Bass
Boston

GSE/bm

24 MARCH 1965

LIBRARY OF CONGRESS: - Annex Catalogue to 1939 -

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The Dallas Times Herald, Dallas
El Imparcial, Guatemala City

5
THE DETECTION AND ESTIMATION OF HYDROCYANIC ACID IN BEANS.

L. Guignard

Annales des falsifications et des fraudes. 9, 301-5(1916)

Burmah beans, which belong to the species Phaseolus lunatus, may be imported into France, providing analysis shows that they contain not over 0.02% HCN. A qualitative test is made by placing 1 or 2 g. powdered bean in a small flask with 5-10 cc. water, and suspending in the neck of the flask a filter paper soaked in a soln. containing 1 g. picric acid and 10 g. cryst. Na CO_3 in 100 cc. If the beans contain HCN glucoside, the paper takes on an orange-red tint within 12 hrs. The proportion of HCN is estimated by macerating 10-20 grams of powdered beans in water for 12 hrs., and steam distilling into dilute ammonia, until about 100 cc. have distilled over. The distillate is titrated with 0.01 N AgNO_3 , with KI as indicator.* Under the microscope crystals of calcium oxalate may be seen in the second layer of the coating of Phaseolus vulgaris, while Ph. lunatus does not contain these crystals.

H. E. Woodward.

~~CA~~ Chem. Abstracts 11, 675(1917)

P. S. Wedo not have the journal containing the original article.

H. M. S.

* This is the standard Liebig titration of cyanides.

AMSTERDAM-O. 3rd November 1955.
MAURITSKADE 63
TELEPHONE 52600

DEPARTMENT: Tropical Products'

BANKERS: NED. HANDEL MAATSCHAPPIJ N.V.
POSTGIRO 34548 GEM. GIRO 3 10074

ENCLOSURE: 1. REF. NO: 3294.55.Ls.Ho.

SUBJECT: cassave

Dr. D.J. Rogers,
Allegheny College,
M E A D V I L L E,
Pennsylvania, U.S.A.

Dear Dr. Rogers,

After my interesting visit to Turrialba I spent six weeks in Washington and from there returned to Holland via New York (two weeks) and Bahia (one week), so that I arrived in Holland on the 27th of September.

Rereading my notes here and checking up the activities of my Institute as a consequence of my instructions from abroad, I felt disappointed to find, that no contacts from here were opened with you about literature on cassave. Your letter of September 19. from Allegheny College brought your request once more under our attention. with the following results:

Studying the appendix of your letter we concluded that the major part of these publications is fairly our of date. The essentials of most of the books and articles, cited by you, have since been included and improved in latter publications, so that in our opinion the books and articles of de Bie (1900), Blokzeyl (1916), Canter Visscher (1916), Koch (1919) etc. have not much use to summarize. Most of the data are published in the more up to date article on cassave by A.J. Koens, published in the handbook: "De Landbouw in de Indische Archipel", part II A 1948, p.165/200, in which an ample description is given of the prewar situation of cassave on Java (ecology, cultivation, selection, pests and diseases, manufacturing, exports, etc., with 92 references).

Besides this publication I attach to this letter a list of more recently published articles in different languages. Probably some of these are known to you, from others we can make summaries in the English language if you think it useful to do so.

In order to prevent inefficient work and high costs I propose to restrict our summaries to the aspects of cassave-growing, in which you are especially interested, as probably selection, varie-

DEPARTMENT: Tropical Products'

BANKERS: NED. HANDEL. MAATSCHAPPIJ N.V.
POSTBUIRO 24548 GEN. BUIRO 8 10074

ENCLOSURE:

REF. NO:

3294.55.Ls.Ho.

SUBJECT:

ties, hybridisation, toxicity, production, etc. Could you mention us the main fields of your interests?

Regarding the translation costs it is possible that we have the translation-work partly done by our own personel, but I fear that the amount of work will become too large for this, so we will have to make use of our translator. I think it will be the most convenient, if you limit the amount you can spend for this work and I will arrange the work for this as good as possible.

Will you be so kind to let us know:

- a. from which book or article you want English summaries in such a way that the main features will be clear to you;
- b. the fields in cassave-growing that you want to have covered by the summaries;
- c. the funds that can be made available by you for the translation-work,

so that we can help you as efficient as possible.

Hoping to hear from you soon, I remain, with kind regards,

Yours sincerely,

(A. Luytjes)

Director of the Tropical Products' Dept.

CASSAVA.

- LANJOUW, J., Two interesting species of Manihot L. from Suriname.
Rec.Trav.Bot.Neerl.36,2,p.543/549 (1939).
Two new cassava-species from inner Surinam (Manihot saxicola and M.melano-basis), possibly of economic importance.
- BOLHUIS, G.G., Enkele voorlopige resultaten van een behandeling van cassave-stekken met colchicine. (Preliminary results by treatment of colchicine to cassava-cuttings).
Meded.Alg.Proefstat.Landb.93,p.1/9 (1949).
Doubling of chromosome-numbers by colchicine was tried. Results on the whole were disappointing, but continuation is advised, especially for the rooting of hybrid-cuttings. Summary.
- LAMBOURNE, J., Tapioca varietal trials.
Malayan Agr.J.25,3,p.107/112 (1937).
Yields of 40 varieties in the years 1933-36.
- CHANDRARATNA, M.F., and K.D.S.S.Manayakkara, Studies in cassava. 1. A classification of races occurring in Ceylon.
Trop.Agr.,Ceylon 101,4,p.3/12 (1945).
Description of 30 varieties. (For the first part of this article see: Trop. Agr.,Ceylon 100,4 (1944).
- Beschrijvende lijst van variëteiten van eenjarige gewassen, beschikbaar voor de praktijk.
Meded.Praktijk Alg.Proefstat.Landb.5,p.3/23 (1949).
Description of 6 varieties of cassava (Bastorao, Betawi, Mangi, Muara, Sao pedro preto, Valenca), cuttings of which are available at the Agric. Exp.Station Bogor (Java).
- NICHOLS, R.F.W., Review of work on cassava.
Rep.East Afr.Agr.Res.Inst.Amani 1947,p.9/11 (1949).
Details of crossing work with cassava. Figures and analysis.
- BOLHUIS, G.G., Kruisingen bij cassave. (Crossings with cassava).
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Hybridization in cassava (1) between clones of M.utilissima, (2) M.utilissima x M.glaziovii, (3) M.utilissima x M.saxicola. Summary.
- Le riz et le manioc. (Rice and cassava).
Bull.Inform.Inéac 1,1/2,p.37/54; bijl.Bull.Agr.Congo Belge 43,2 (1952).
Selection of cassava at the Exp.Station Yangambi (B.Congo).
- HOLLEMAN, L.W.J., Java tapioca, its manufacture grading and use.
O.S.R.-Publ.22,p.3/13 (1950).
Cassava as a food in Indonesia. Toxicity of different cassava-species. Preparation of flour by Indonesians and by the industry. Grading and quality.
- BOLHUIS, G.G., Waarnemingen over de z.g. mosaïek-ziekte bij cassava op Java. (Observations on the so-called Mosaic disease in cassava in Java).
Meded.Alg.Proefstat.Landb.92,p.1/9 (1949).
So far no cassava mosaic caused by a virus ever occurred in Java. The symptoms observed were caused by a drop in temperature. Summary.

JONES, W.O., A map of manioc in Africa.

Geogr. Rev. 43, 1, p. 112/114 (1953).

Cassava (manioc or tapioca), Manihot utilissima is the least known of the great food crops that the New World gave the Old. Estimates of the cassava acreage from various sources are sketched on a map which represents the absolute and relative distribution of cassava in Africa as it was in 1948 or thereabouts. The map is considered useful as a first approximation.

NORMANHA, E.S., and A.S. Pereira, Aspectos agrônomicos da cultura da mandioca (Manihot utilissima Pohl).

Bragantia 10, 7, p. 179/202 (1950).

Agricultural investigations on Brazil-cassava. More ^{than} 600 varieties were collected. Methods of cultivation, manuring etc. Phot. Ref.

PYNAERT, L., Au sujet du manioc. (Talking about cassava).

Rev. Int. Prod. Col. 27, 279, p. 219/224 (1952).

The significance of cassava as a product for the world market and as a foodstuff in the areas where it is produced. Survey of the results of scientific research into the question of melioration; special mention is made of the research work carried out at the "Algemeen Proefstation voor de Landbouw" at Bogor (Indonesia). Selection research is directed not only towards increased production, but also towards raising the protein content (it is hoped to reach 3% protein). Cultivation in Central Africa. The necessary factors for extensive cultivation, including a fallow period and cattle-breeding (as practiced in the Congo) and the economic necessity of trying to achieve a more intensive system of cultivation.

BOLHUIS, G.G., The toxicity of cassava roots.

Neth. J. Agr. Sci. 2, 3, p. 176/185 (1954).

For some time now the degree of toxicity of cassava roots has been discussed. Toxicity is generally agreed to be due to the presence of a glucoside, "linamarin", which may liberate prussic acid. As a rule no sharp definition is given of "bitter" and "sweet" cassava. Expression of the degree of toxicity in mg of HCN per kg of fresh root will greatly facilitate the comparison of data. It has been proved that toxicity is influenced by both internal and external factors. Ref.

RAZAFIMAHERY, R., Glucosides cyanogénétiques pois du Cap, manioc et "bononoka". (The cyanogenetic glucosides of Cape peas, manioc and "bononoka").

Bull. Acad. Malgache 31, p. 71/77 (1954).

The hydrocyanic acid toxicity of Cape peas (*Phaseolus lunatus*), fresh manioc roots, and "bononoka", a native food product in Madagascar, which is prepared from cassava root (preferably bitter) by fermentation under running water, after which the roots are steamed. The Madagascar population invariably throw away the first water in which the roots have been boiled; this is also the case after the fermentation and steaming of "bohonoka".

Diagram illustrating the HCN loss of roots, dried in the sun. Ref.

COURS, G., Le manioc.

C.R. Recherche Agron. Madagascar 2, p. 78/84 (1953).

Results of research on leaf diagnosis of cassava in Madagascar. Use of leaf diagnosis in determining potassium deficiency. Investigations on minor element deficiencies of cassava, e.g. borium, manganese, iron, zinc and copper.

BOLHUIS, G.G., L'emploi de la réaction par la couleur de Guignard dans la sélection du Manioc. (The use of the Guignard colour test in the selection of cassava).

Rev. Int. Bot. Appl. Agr. Trop. 32, 361-362, p. 559/564 (1952).

Guignard's colour reaction test is a rapid and simple method of determining roughly the degree of poisonousness of the roots of cassava varieties. It appears that varieties classified as "fairly poisonous" and "poisonous" are influenced by external conditions more than by any other factors. The wide variations in poisonousness under the various cassava varieties make a botanical classification impossible. Lit.

BOLHUIS, G.G., A survey of some attempts to breed cassava-varieties with a high content of proteins in the roots.

Euphytica, II, 2, p. 107-12 (1953).

Attempts were to-date not very successful. The hybrids M. utilisissima x M. saxicola seem to offer some prominent possibilities, because a combination may be established between a high content of proteins and a small toxicity. Crossings with Indo-Chine varieties with high protein content should be repeated.

HENDRIKS, J.A.H., Opbrengsten van acht cassave-variëteiten. (The yields of 8 cassava varieties).

Sur. Landbouw 1, 2, p. 84/86 (1953).

An outline of experiments with cassava in Surinam. It appears that very reasonable results can be expected from the sweet varieties present in Surinam. Yields of between 35 and 40 tons/ha can be achieved with the aid of fertilizers and soil treatment.

REYNVAAN, J., Cassave variëteiten. (Cassava varieties).

Landb. Nieuws, Suriname, Maart, p. 5/7 (1954).

Some Surinam varieties and imports from Indonesia (Valenca and Mangi), yielding higher ~~as~~ than the local varieties.

THE BITTER CASSAVA (MANIHOT UTILISSIMA)

-César Augusto Vieira (Lab. quim.-fs., Porto, Portugal). Rev. chim. pura e appl. 4, No. 1/2, 19-94(1953).-

A review on the bitter cassava, extrn. of manihot flour, phys.-chem. properties, and analysis. In the detn. of HCN in manihot flour, it is found that steeping in H₂O for 2 or 4 hours is not sufficient to liberate HCN completely. Manihot flour (20 g.) is steeped in 100 cc. distd. H₂O for 24 hours (min. time 12 hours) to liberate HCN from the glucoside, another 100 cc. of H₂O is added, and HCN is distd. with steam into a soln. of 10-15 cc. ammonia in 20 cc. H₂O until the vol. reaches 100-125 cc. Completeness of distn. is tested by adding 1 drop of 0.2% I₂ in H₂O to a few drops of distillate; distn. is complete when the I₂-H₂O mixt. remains light yellow. 46 references.

from chemical abstracts 49 14925 (1955)

I hadn't really forgotten

Lew -

Dr. Rogers

Selected list of fungi on Manihot and pertinent references for Dr. Wellman.

2 r w b - 20 2 m

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Estado Sao Paulo, Campinas, Vol. 1, no. 3: 233-248.
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Selected list of fungi on Manihot and pertinent references for Dr. Wellman

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DR/AR.

part anti

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2. Sometimes manioc is cut up and cooked with the leaves of pumpkins.
3. manioc leaves are eaten in times of scarcity.
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The Batetelas and the Bena Luida, the Baluobas have more dve. agriculture, with manioc et al.
The Eastern region of the Upper Congo
Tribes, Bambolis, the Basokos, the Monghelimas and the Bambubas culti.
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Between the Ubangi and the Congo. Some tribes depend largely on manioc. Particularly near junction of the two rivers.
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the Kreish (to west and NW of Dinka--a drier area)
III. The south-west area. Tribes Azande. Manioc is soaked.
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cards made

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September 1, 1959

Dr. William C. Sturtevant
Bureau of American Ethnology
Smithsonian Institution
Washington 25, D. C.

Dear Dr. Sturtevant:

This will acknowledge your letter of August 20 and the enclosed bibliography. Dr. Rogers is on vacation and will not return to the office until late in September. I am sure that he will be very pleased to receive the bibliography, and I know that he will be anxious to have the information on Seminole manioc. He will be happy to know also that you are working on the Zamia paper, and I am sure that he will be in touch with you on his return.

Very truly yours

Secretary to Dr. Rogers

MDF

SMITHSONIAN INSTITUTION
BUREAU OF AMERICAN ETHNOLOGY
WASHINGTON 25, D. C.

Aug 20 '59

Dr David J. Rogers
N.Y. Botanical Garden
Bronx Park
N.Y. 58, N.Y.

Dear Dave,

The purpose of this is merely to transmit the enclosed bibliography, which may be of some interest to you. I got back from Florida about a month ago. I have some herbarium specimens, notes, and photos on Seminole manioc for you, but am waiting until I get prints of all the photos before sending them on to you. I have also begun to work again on the *Zamia* paper, so you should be hearing from me again before long.

yrs

Bill

Aug 20, 1959

Hugh Popenoe
Dept of Soils
College of Agriculture
University of Florida
Gainesville, Fla.

Dear Hugh,

Here is the list of references on manioc I promised to pull together from my files. I'm sure lots more could be found, e.g. by searching the new USDA library catalog. What do you want to do with these? Have you got a list yourself? Do you think we should put out a joint bibliography in John Goggin's mimeo series? There are several people I know of who could probably supply additional titles; I've typed up several carbons, but am sending one only to David Rogers, until I get your reaction.

I look forward to seeing you in Mexico.

yrs

William C. Sturtevant

C. C. Smith

PRELIMINARY BIBLIOGRAPHY ON THE ECONOMIC BOTANY OF
MANIHOT ~~XXXXXXXXXX~~ ESCULENTA

William C. Sturtevant
August, 1959

[Titles marked * have been checked for accuracy against originals]

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SECCAO DE RAIZES E TUBERCULOS

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Carta em file

Interessado:
Robert Moncure
Research Development Division
U. S. Department of Agriculture
Washington D. C. U.S.A.

Processo: 38007

Assunto: Solicita publicacoes sobre o valor nutritivo da mandioca.

1. Juntamos ao presente as publicacoes sobre mandioca, ora em disponibilidade nesta Seccao, para atender ao Dr. Robert.
2. Sugerimos ao Senhor Diretor, autorizar a Seccao de Publicidade des te Instituto, a fornecer gratuitamente ao interessado, um volume do trabalho de Juvenal Mendes de Godoy "Fecularia e Amidonaria".
3. A seguinte bibliografia sobre mandioca, pode ser util de certo modo, as indagacoes daquele funcionario.

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4. Os anexos enviados pelo interessado, foram retirados para os arquivos desta Seccao.

Campinas, 18 de julho de 1952

/s/ Araken Soares Pereira

London file

Write to Dr. A. Luytjes, Director
Director of the Tropical Products Department of the
Royal Tropical Institute at Amsterdam

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