



Hunt Institute for Botanical Documentation
5th Floor, Hunt Library
Carnegie Mellon University
4909 Frew Street
Pittsburgh, PA 15213-3890
Telephone: 412-268-2434
Email: huntinst@andrew.cmu.edu
Web site: www.huntbotanical.org

The Hunt Institute is committed to making its collections accessible for research. We are pleased to offer this digitized item.

Usage guidelines

We have provided this low-resolution, digitized version for research purposes. To inquire about publishing any images from this item, please contact the Institute.

Statement on harmful and offensive content

The Hunt Institute Archives contains hundreds of thousands of pages of historical content, writing and images, created by thousands of individuals connected to the botanical sciences. Due to the wide range of time and social context in which these materials were created, some of the collections contain material that reflect outdated, biased, offensive and possibly violent views, opinions and actions. The Hunt Institute for Botanical Documentation does not endorse the views expressed in these materials, which are inconsistent with our dedication to creating an inclusive, accessible and anti-discriminatory research environment. Archival records are historical documents, and the Hunt Institute keeps such records unaltered to maintain their integrity and to foster accountability for the actions and views of the collections' creators.

Many of the historical collections in the Hunt Institute Archives contain personal correspondence, notes, recollections and opinions, which may contain language, ideas or stereotypes that are offensive or harmful to others. These collections are maintained as records of the individuals involved and do not reflect the views or values of the Hunt Institute for Botanical Documentation or those of Carnegie Mellon University.

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.

*Progress of forms
have not been obtained
fill out, send 552*

*Some forms to be included as they are being prepared
for the next annual report*

DESCRIPTION OF THE SEED LABORATORY ACTIVITIES

The work of the Seed Laboratory fell into three main activities:

1. requests for seeds
2. requests for information
3. preparation and transmission of seeds

1. REQUESTS FOR SEEDS

Seeds are requested by member countries, institutions, field experts, plant breeders, and individual specialists, which can at times be supplied directly from the stock held in the Seed Room.
(requests are received via letters, word of mouth, in house staff through memos and Seed Laboratory visitors - usually field experts).

If no stock is available the following action is taken:

Request to supply seed or planting material is made to seed merchants, nurseries, botanic gardens and agricultural experient stations.
(through letters or purchase requisitions).

2. REQUESTS FOR INFORMATION

Exchange

The Seed Laboratory receives numerous requests for information of seed sources from special Fund projects, field experts, from different divisions in Headquarters including Purchasing Branch, Member Countries, plant breeding stations, specialists, etc. The information supplied by the Seed Room is based on previous experience and extracted from data retained for this purpose.

Approximately 800 catalogues of different seed merchants, 400 Index semina from botanic gardens are kept for reference, in addition to a large supply of literature and pamphlets, and plant registers of cultivated varieties from various countries.

Data are recorded from publications, periodicals and abstracts to provide up-to-date information on any crop. On the basis of this information and bibliographical research, catalogues are prepared on the sources of certain group of crops. So far catalogues on tropical pastures - grasses and legumes, and oil crops have been prepared.

3. PREPARATION AND TRANSMISSION OF SEEDS

The Seed Room is called upon to prepare and transmit seeds and planting material on behalf of field projects, collecting missions, and adaptation or evaluation nurseries, which comprise the following activities:

- ... preparation of seeds was followed for disease no seeds available at any time
... report and results increase production
... seeds - material of interest*
- Colony
Mills
P.O. Box*
- (a) Each year seed is received in bulk for the preparation of collections to be sent to experimental stations for trials. For example, this year the Seed Room has prepared and despatched some 30,000 samples of wheat, barley, maize and sorghum on behalf of 16 different collections;

- (b) Collections are received from exploration missions. The seed sometimes require laboratory tests and threshing before storage prior to distribution;
- (c) Transmission of budding material of fruit plants, olive and plants propagated by vegetative means in collaboration with the Horticultural Group.

is it sent directly? ^{seed from} Israel to here then to Arabs
instead of direct

DETAILS OF PROCEDURES
=====

1. INCOMING SEEDS

- (a) When the seed arrives it is cleared through customs;
(we have to prepare a written request for this purpose - model 4);
- (b) It is inspected for pests and diseases, and disinfected or treated with fungicide or pesticides;
- (c) Identification of the seed sample: species, variety, origin, quantity in connection with our request;
- (d) Laboratory tests are made to check germinability, humidity, purity; (when necessary and if we have time to do so)
- (e) The sample is registered in the Seed Accession Book (model 2) a progressive number being allocated. In addition the following information is recorded in the Book: Latin name, name of cultivar/Variety/common name; address of supplier; country of origin; date of arrival; miscellaneous notes;
- (f) The sample is also registered on two separate cards: one by seed accession number (model 3) and the other by latin name (model 4);
- (g) Seeds are then divided into samples in special bags and prepared for despatching or stored; (self-sealing envelopes, aluminium envelopes. On each envelope all information appear (model 5);

*Regulation pertaining to germination -
from an country - how obtained*

Billings for seeds ?

2- OUTGOING SEEDS

Upon arrival of seed we find out for who it has been ordered (through our letter requests (model 6, Purchase requisition (model 7), original request (model 8) and except when we discover that seed is for our stock the following action is taken:

- (a) Registration of the seed (procedures as described for incoming seeds;
- (b) If the sample has been registered we have to take it from the store;
- (c) Inspection of seed condition (germinability test if applicable, especially if it has been stored for long time)
- (d) Division of seed into samples;
- (e) Preparation of the Seed Consignment list (3 copies) containing all available information and technical notes (model 9);
- (f) The samples are carefully packed in special boxes and despatched through the FAO mail room by surface, pouch or mail (model 10 to send the seed by air);
- (g) Request for a phytosanitary certificate to the Italian Authorities which is sent out with the seed parcel (we have to prepare a request for this purpose (model 11);
- (h) Up-to-date of the two cards: i.e. seed accession number and by latin name;
- (j) Remaining samples are stored in shelves;

3. PREPARATION AND TRANSMISSION OF SEEDS

Please see description of the Seed Laboratory activities.

- Registration, preparation and dispatch of samples as described for incoming + outgoing seeds.

4. SEED LABORATORY MAINTENANCE

- a) Control of the storage chamber condition (temperature & humidity);
- b) Cleaning, arrangement, sorting out, rearrangement of the samples in the storage chamber;
- c) Arrangement of seed collections in shelves by group of species;
- d) Fumigation treatment of the Seed Laboratory; *Fumigation*
- e) Maintenance of the Seed Laboratory equipment.

Cold storage - same

5. REQUEST FOR INFORMATION

Please see description of the Seed Laboratory activities.

- a) We try to get the required information by going through our cards, catalogues, index semina, bibliography research and so on;
- b) preparation of a written answer with a list of information; (model 12)
- c) Preparation of catalogues (model 13).

SEED LABORATORY EQUIPMENT

- Files - drawers - cabinets
- Typewriters
- Frieden machine
- Photocopy machine
- 2 sealing machines (envelopes & plastic)
- 2 seed germinators
- 3 seed blowers
- 2 moisture tests machines

LIST OF SEED LABORATORY FILES

1. SEED ACCESSION NUMBER BOOK
 - permanent registration of all entries; several books;
at present registration made until FAO No. 33.400.
2. SEED CONSIGNMENT
 - permanent record of all FAO Seed consignments
(several binders)
3. CROPS BY LATIN NAME (cards)
 - permanent record of all entries by latin name & country
4. SEED ACCESSION NUMBER (cards)
 - permanent record of all entries by seed accession number
5. SEED REQUEST BY LATIN NAME
 - photocopies of all seed and information requests (original)
6. SEED REQUESTS BY COUNTRY
 - copies of our requests for seed exchange
7. SEED REQUESTS BY LATIN NAME
 - copies of our requests for seed exchange
8. SEED DISTRIBUTION BY COUNTRY
 - copies of the seed consignment list classified by country
9. PURCHASE REQUISITIONS
 - copies of purchase requisitions for seeds obtained commercially
10. INFORMATION COPIES
 - copies from Division written for seeds and have seed sent here
to hold until asked for or for transmission of seeds.
11. CROPS VARIETIES INFORMATION (cards - Mr. Sgaravatti office)
12. ADDRESSES OF INSTITUTES KEEPING GENETIC STOCK FOR EXCHANGE (cards - Mr. S.)
13. COMMERCIAL CATALOGUES BY COUNTRY (Mr. Sgaravatti office)
14. CROPS BY LATIN NAME (catalogues, pamphlets, etc. Mr. Sgaravatti office)
15. CULTIVARS BY COUNTRY " " " "
16. INDEX SEMINA BY COUNTRY & INSTITUTES (Mr. Sgaravatti office)

no other seeds in any other samples sent to quarantine & for sale

STAFF NAMES AND DUTIES

1. E. Sgaravatti
Seed Exchange Officer

- Seed Laboratory supervisor
- functions performed as Seed Exchange Officer
*records of acquisitions still being
checked
imported, etc*

2. A. Serafini
Seed Technician

- Mainly dealing with laboratory work, i.e. incoming seeds, outgoing seeds, collections, seed in transit, laboratory tests.

3. A. Bastianelli
Seed Laboratory Clerk

- Handling requests for seeds and plant material from field projects, including correspondence, search for information, administrative and phytosanitary procedures;
- keep up-to-date all files in the Seed Lab.
- prepare all purchase requisitions
- *file of addresses*
typing work for the Seed Laboratory, Dr. León and Mr. Sgaravatti (catalogues, seed lists, seed consignment lists, memos, correspondence;
- Photocopies
any record of replies? stated once to answer but did they?
- research literature at times
request for material as for account for our file
- Laboratory work in spare time (as described for Mr. Serafini duties);
*letter
in view*

4. C. Bocchio
Seed Laboratory Helper

- Laboratory work only (incoming seeds & outgoing seeds)

Mr. J. Marley
Chief, Purchasing and Control Branch, AFSP

4 October 1973

E. Sgaravatti
Seed Exchange Officer, AGPE

Customs clearance for a seed parcel

... I should be grateful if you would arrange for the clearance through
Customs of a parcel coming from Tel Aviv and addressed to Dr. L. Chiatappa,
AGP Division, as per attached Bolliger's notice.

ADDRESS OF CONSIGNEE	DATE OF ARRIVAL	Phyt. Cert M	Miscellaneous notes
Messrs. Taylor-Evans Seed Co. P.O. Box 480 TULIA, TEXAS	18 FEB. 1974	M	
I.A.R.I. NEW DELHI	19 . .	N	
I.A.R.I NEW DELHI	19 . .	N	
Mr. G.B. Mazzocchi Government Farm GHAMMIERI-MARSA	25 . .	N	
Forest Department, Ministry of Agric. KABUL	3 MAR. .	Y	Through - Mr. Marsico - A.G.P. Hq. - Rome
Plant Introduction Service Volcani Institute of Agriculture Research BEIT DAGAN	4 . .	Y	" ditto
Instituto Interamericano de Ciencias Agrícolas de la Olea Centro de Enseñanza e Investigación TURRIALBA	5 . .	N	
Zeytinçilik Enstitüsü BORNOVA/IZMIR	5 . .	N	Through: Mr. Marsico A.G.P. - Hq. - Rome

Seed Accession No	SPECIES		VARIETY/CULTIVAR	COUNTRY OF ORIGIN
28.529	SORGHUM	VULGARE	TE TOTAL	U.S.A.
28.530	"	"	TE TELL	
28.531	"	"	TE Y 101	
28.532	SYMPHYTUM	SP.	E.C. 7296 (U.K.)	INDIA
28.533	"	"	E.S. 19690 (Japan)	
28.534	VITIS	VINIFERA	(Grape cuttings)	INDIA
28.535	PYRUS	COMMUNIS	- Branches	FLORDASUM
28.536	"	"	- "	ROCKOM
28.537	"	"	- "	WILD PEAR (PURUS)
28.538	OLEA	CUSPIDATA	(Seeds and Branches)	AFGHANISTAN
28.539	ERAGROSTIS	CURVULA	-	ISRAEL
28.540	MELILOTUS	ALBA	-	
28.541	AMMOPHILA	ARENARIA (PSAMOPHILA ARENARIA)	-	
28.542	PENNISETUM	PURPUREUM	534 (Elefante hibrido 534)	COSTA RICA
28.543	OLEA	CUSPIDATA	-	TURKEY

Sample 3

Seed Accession Card

Sheet # 46 (2)

31.923 GLYCINE MAX - var. KIRIN No. 6

Date

LOADS

UNLOADED

30 MAR 1973

482 Gms

- 3 APR 1973

6c. 73/79

100 GMS 382 GMS

YAG

- 73/223

100 " 381

Y

- 73/224

25 " 225

22

- 73/246

50 " 175

Aug 1973 2c. 73/236 to 262 (50 each)

100 " 75

Sample 4

Country of Origin

①

~~CLYCEINE MAX~~

USA	29,813 - 29,815 - 30,423 to 30,423 - 31,060 to 31,061 - 31,619 - 31,820 to 31,823 - 31,993
FRANCE	24,046
SOUTH AFRICA	24,347 - 24,348 - 24,320
PAKISTAN	26,404 to 26,404
DOMINICAN REP.	28,125 to 28,125 - 28,220
THE PEOPLE'S OF CHINA	31,923 to 31,924
NIGERIA	29,990 to 29,994 - 32,045 to 32,054
INDIA	30,003 to 30,003
THAILAND	31,492 to 31,496
ECUADOR	28,932
ENGLAND	24,140 - 24,141
COLOMBIA	31,435 to 31,431
BRAZIL	31,440 to 31,440
GERMANY	31,380 - 31,380
PHILIPPINES	32,161 to 32,144
KOREA	31,960 to 31,964

Model 5

FAO SEED ACCESSION
NUMBER: 28529

Sorghum vulgare

Variety : To Total

Weight : 100 Gms.
Germinability: 96 %
Treated with : Captan

Model 6

ES/deq : 27 November 1973

cc : Sykes
Seed Lab. (2)
Chron. ✓
ACP Reg. (2)

PL 2/2G - Argentina

29 NOV. 1973

Dear Sirs,

We have received a request for a collection of Pistachio varieties from the Agricultural Ministry in Argentina for evaluation in the provinces of La Rioja, Catamarca and San Juan.

Five to eight live plants are requested with the respective pollinator of the listed varieties:

Ibrahidi (or Ebrahimi) Batouri
Wahidi Jalab
Eghimis Red Aleppo
Macrocarpa Bronte
Achouri Kay
Allami (or Alemi?)

Could you please check the names of the indicated varieties and let us know about the availability of the plants in your Institute. In order to save money, I try to arrange transport by FAO pouch, provided a Phytosanitary Certificate is issued.

The best period for planting in Argentina would be January 1974 and I should be obliged therefore, if you could indicate whether you would be able to prepare the plants for next month.

The Ministry in Argentina would also be interested in receiving planting material of any hermaphrodite variety in your collection and the seeds of the following rootstocks:

.../

Institut de Recherches Agronomiques
Telamara par Rayak
(Békaa)
Lebanon

Pistacia Atlantica

P. Chinensis

P. Terebinthus

P. Khinjuk

P. Vera

Could you please let us know the price and the airmail charge to Rome of the requested material and also indicate an alternative variety should those mentioned not be maintained in your collection.

We thank you in anticipation of your assistance in this connection.

Yours sincerely,

E. Sgaravatti
Seed Exchange Officer
Crop Ecology and Genetic Resources Unit
Plant Production and Protection Division

Lupinus

ES/deq : 7 January 1973

cc : Sykes
Seed Lab. (2) ✓
Chron
AGP Reg. (2)

AGPE - PL 2/20 - Somali D. Rep.

18 JAN 1974

Dear Sir,

We have received a request from one of our experts for a few samples of sweet lupine and should be very grateful if you could kindly send us a 500 g. sample of the varieties *Wilsener Gelbe*, *Münchenerger Blane* and any others you may have available.

Thanking you very much in advance for your cooperation in this matter.

Yours sincerely,

E. Sgaravatti
Seed Exchange Officer
Crop Ecology and Genetic Resources Unit
Plant Production and Protection Division

Dr. H.J. Troll
Störnthalener Strassel
7027 Leipzig
Federal Republic of Germany

for Mr. Mohamed MAGAN - GULAIIP
Agricultura Service
HARGEISA

Request through:
Mr. CAZAYETS
FAO A235

through UNDP

Hordeum

ES/arc: 29.1.1974

cc: Seed Lab. 2

AGP Reg. 2

LeGn

Chrono

PL 2/20 India

31 JAN 1974

Gentile Sig. Roffi,

Mi è pervenuta dal direttore della sezione introduzione piante, dell' Istituto Indiano di Ricerca Agricola, una richiesta per un campione della vostra varietà di orzo Sista.

Vorrei cogliere l'occasione per chiedere la sua assistenza per l'invio all'ufficio sementi FAO di Roma, anche altri campioni di varietà di orzo.

Ringraziandola in anticipo, colgo l'occasione per inviarla i miei più distinti saluti.

E. Egarevatti
Seed Exchange Officer
Crop Ecology and Genetic Resources Unit
Plant Production and Protection Division

Sig. Roffi
Roffi S.A.S. Bologna
Via d'Azeglio, 1
BOLOGNA

for Dr. Haridas
ICRI
India

Arachis hypogaea

ES/arc: 30.1.1974 cc: Seed Lab. 2 ✓
AGP Reg. 2
Lein
Chrono

PL 2/20 EGYPT

31 JAN 1974

Muy Sr. nuestro:

Le agradeceríamos nos mandase una muestra de 200 gramos de Maní, "Blanco Palma Grande", "Blanco Santa Fé".

Agradeciéndole de antemano su colaboración, le saludo muy atentamente.

E. Sgaravatti
Oficial de Intercambio de Semillas
Dependencia de Ecología de Cultivos y Recursos Genéticos
Dirección de Producción y Protección Vegetal

Dr. H.R. Ojeda
Facultad de Agronomía y Veterinaria
Corrientes
Argentina

for Mr. Salama, Cairo

MERCEN NB
TRANSITO

AGPP - DP 9/1 GUI/68/003

LC:lb
8 Jan. 1974

Sy...
CASSAVA

cc: Mr. Stenström, Nairobi
Dr. Fassi, Torino
Dra. León/Sgaravatti (Seed Room) ✓
Dr. De Poerck
Mr. Sidi
AGP Reg. (2)
Chron.
Circ.

9 JAN. 1974.

Dear Sir:

Dr. B. Fassi, FAO Consultant, Cassava Mosaic Project, who recently visited your Station, indicated your willingness to supply us with ten cassava clones resistant to and visually free of symptoms of cassava mosaic disease. We are indeed grateful to you and your staff for this very kind collaboration.

Mr. Paul Chogo has already with him an interim list of the clones required. For sake of clarity these are listed below:

- 46106/27
- 4763/16
- 5543/156
- 50234/33
- 5547/24
- 5318/34

In addition to these, four other clones could be added at your discretion.

If possible, there should be six cuttings with at least 30 buds each for each clone. Cuttings should be possibly taken from different plants of the same clone and properly labeled. To facilitate handling and trans-shipment, all this material could be packed into different bundles of convenient size. These should be airmailed to the following address:

Mr. Lars Stenström
Senior Agricultural Adviser/FAO Country
Representative in Kenya
P.O. Box 30470
Nairobi, Kenya

.../...

To the Director
Mtwapa Research Station
Agricultural Research Division
P.O. Kikambala (Mombasa)
Kenya

From Nairobi this material will be immediately forwarded to FAO Headquarters in Rome (Attention: Seed Room) with the first available pouch. By copy of this letter we are warning Mr. Stenström of the urgency and perishable nature of this material, and request him to cable arrival and date of shipment.

If possible, each consignment should also be accompanied by a phytosanitary certificate.

Please, let us know of any cost involved so that we can refund you accordingly.

Grateful for your assistance in this matter,

I remain

Sincerely yours,

L. Chiarappa
Plant Pathologist
Plant Protection Service
Plant Production and Protection Division

Salacca edulis

ES/dec : 11 February 1974

cc : Sykes
Seed Lab. (2) ✓
Chron
ADP Reg. (2)

PL 2/20 - Costa Rica

27 FEB 1974

Dear Dr. Sastapradja,

Last November you were kind enough to ship to us a seed sample of Salacca Edulis. Unfortunately, the seeds lost their viability in transit and I have therefore been requested to ask for another shipment.

Would you kindly repeat the above shipment direct to:

Mr. Edilberto Canache
Horticultor
Centro Agronomico de Investigacion y Enseñanza
Turrialba
COSTA RICA

I have been asked to ensure that the seeds are placed in a hermetically sealed plastic bag which has been filled with moistened sphagnum moss.

Thanking you in anticipation of your assistance in this connection.

Yours sincerely,

E. Sgaravatti
Seed Exchange Officer
Seed Production and Exchange Unit
Plant Production and Protection Division

Dr. S. Sastapradja
Trecus Laboratory
Botanic Garden
Bogor, INDONESIA

18.2.74 - EG/va

cc : Brouwers, Sri Lanka
Sykes, AGP
Sedd Lab. (2)
chrono
AGP Reg. (2)

FL 2/20 Baire

27 FEB 1974

Monsieur le Directeur,

Nous avons reçu copie d'une lettre, réf. 73/40, datée 2 novembre 1973 adressée à vous par Monsieur H.J.A. Brouwers, Department of Minor Export Crops, 159, Dharmapala Mawatha, Colombo 7, Sri Lanka, nous priant de nous mettre en communication avec vous au sujet du paiement et du transport des graines.

Si vous avez le matériel disponible nous pensons que pour le transport vous pourriez vous mettre en contact avec M. Alexandre S. Akande, Conseiller Agricole Principal, Représentant de la FAO en République du Zaïre, C/o USDP, B.P. 7243, Kinshasa, qui pourrait très aimablement agréer d'expédier le matériel par courrier diplomatique à l'adresse du laboratoire des graines, FAO, Kinsh. Nous pourrions ensuite les transmettre à Ceylan ; pour le paiement de vous serez obligé si vous pouviez envoyer la facture directement à M. Brouwers.

Veuillez agréer, Monsieur le Directeur, l'expression de nos sentiments les meilleurs.

E. Sganavatti
Fonctionnaire de l'échange des semences
Sous-Division de l'écologie végétale
et des ressources génétiques
Division de la production végétale et de la
protection des plantes

Monsieur le Directeur
Direction Générale INERA
Tanganyika
BP 1513 Kisangani
République du Zaïre



PURCHASE REQUISITION

ISSUANCE No.

MODEL 7

PR No 53422 (11)

INSTRUCTIONS:

1. Fill in complete set of four copies.
2. Complete reverse side, if waiving of bids for purchases of over \$ 1,000 is requested.
3. Retain 4th copy (green) and forward first three copies to Purchasing and Control Branch.
4. In case of requisition for electrical equipment for field, please state volts and cycles.

1-94425
P.O. No.

Initiating Officer B. Sgaravatti Seed Exchange Officer	Division - Branch AGPE	Room SeedRoom	Extension 3783	Date 4.9.1973
Approved by (title and signature) B.J. Freeman Executive Officer	Division AGP	Date	Code or Project 2.9200.223.10.59	Date required soonest

Purpose, Justification

For Seed Exchange Purposes

Suggested Supplier (s) Messrs. W. Atlee Burpee Co., P.O. Box 6929 Philadelphia, Pa. 19132 USA	Ship by <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Air <input type="checkbox"/> Parcel Post <input type="checkbox"/> Pouch TO Mr. B. Sgaravatti SEED LABORATORY FAO Hqs
---	---

Item No.	Detailed Description	Quantity (and Unit)	Estimated price	
			per Unit	Total
...	SEEDS AS PER ATTACHED LIST. Phytosanitary Certificate required <u>Approximate cost including surface transportation US \$ 120.</u> <i>for stock</i>			

GOOD RECEIVED Date:

Signature:

Item No.	Art.	Description	Quantity
1	6111	Mammoth Sunflower	1 lb
2	5009	Asparagus May Washington	1/2lb
3	5138	Edible Soybean Kanrich	4
4	6016	Carrot Danvers	1 oz.
5	6021	" Imperator	1 oz.
6	5354	Celeriac Alabaster	1 oz.
7	5206	Celtuce	1/2oz.
8	5025	Cucumber Improved long green	1/2oz.
9	6866	" Ponsett	1/2oz.
10	5034	Okra Clemson Spineless	1/4oz.
11	5263	" Dwarf Green Long Pod	1/4oz.
12	5079	Canteloupe Delicious 51	2 oz.
13	6066	" Hales Best J. 36	2 oz.
14	6063	" Honey Rock	2 oz.
15	5037	" Pride of Wisconsin	2 oz.
16	5307	" Samson hybrid	2 oz.
17	5247	" Golden Beauty Casaba	2 oz.
18	5246	" Honey Dew	2 oz.
19	6076	Onion Sweet Spanish Yellow Utah	1/4oz.
20	5268	" Crystal White Wax	1/4oz.
21	5275	" Southport Yellow Globe	1/4oz.
22	5258	Pea Burpee's sweetpod edible	2 lb
23	5177	Blackeye California Cowpea	5 lb
24	5312	Green Arrow Pea	5 lb
25	6215	Jumbo Virginia Peanut	5 lb
26	6216	Spanish Peanut	5 lb
27	5086	Burpee's Bellringer pepper	2 pkt
28	6083	Burpee's Fordhook pepper	2 pkt
29	5049	Burpee's Rubyking pepper	2 pkt
30	5357	Golden Calwonder pepper	2 pkt
31	5045	Merrimack wonder pepper	2 pkt
32	5042	Worldbeater pepper	2 pkt
33	5185	Yolo Wonder pepper	2 pkt
34	5280	Anaheim hot pepper	1/2oz.
35	5294	Hungarian Wax hot pepper	1/2oz.
36	5295	Large Cherry hot pepper	1/2oz.

Item No.	Art.	Description	Quantity
37	2282	Long Red Cayenne hot pepper	1/2 oz.
38	5243	Malbar Spinach	1/4 oz.
39	5262	Burpee Delicâous Tomato	1 oz.
40	6127	Beesteak Tomato	1 oz.
41	5361	Tropic tomato	1 oz.
42	5032	Kleckley's Sweet Improved Watermelon	1 oz.
43	5341	Tampala spinach	1/4oz.
44	5058	America spinach	1/4oz.



PURCHASE REQUISITION

ISSUANCE No.

19

PR. No. 5343

- INSTRUCTIONS:
1. Fill in complete set of four copies.
 2. Complete reverse side, if waiving of bids for purchases of over \$ 1,000 is requested.
 3. Retain 4th copy (green) and forward first three copies to Purchasing and Control Branch.
 4. In case of requisition for electrical equipment for field, please state volts and cycles.

Initiating Officer E. Sgaravatti Seed Exchange Officer	Division - Branch AGPS	Room Seed Room	Extension 3703	Date 29.10.1973
Approved by (title and signature) H.C. Bonte-Friedheim Acting Chief, AGSO	Division AGS	Date	Code or Project YUG 71/514	Date required not later than January 1974

Purpose, Justification

Suggested Supplier (s)

Mr. Walter Busse
Route 1
Appleton, Minnesota 56208
USA

Ship by Surface Air Parcel Post Pouch

TO
Dr. James Doyle
Project Manager
Development of an Agricultural-Food Complex
in the Bosanska-Krajina Region - UN/FAO
P.O. Box 157
78000 Banja Luka
YUGOSLAVIA

Item No.	Detailed Description	Quantity (and Unit)	Estimated price	
			per Unit	Total
	<u>Soyabean: Maturity Group O</u>			
1	Clay			
2	Merit	1 bushel	\$ 9	
3	Swift	1 bushel	\$ 9	
	<u>Maturity Group I</u>			
4	Dunn	1 bushel	\$ 9	
5	Rampage 1	1 bushel	\$ 9	
6	Steele	1 bushel	\$ 9	
			\$54	
	+ Air freight for 360 lb	\$360		
				<u>\$ 414</u>

PHYTOSANITARY CERTIFICATE REQUIRED

pot stock

ADM 242 706 M - A527



**PURCHASE
REQUISITION**

ISSUANCE No. _____

PR No 53447

INSTRUCTIONS: 1. Fill in complete set of four copies.
2. Complete reverse side, if waiving of bids for purchases of over \$ 1,000 is requested.
3. Retain 4th copy (green) and forward first three copies to Purchasing and Control Branch.
4. In case of requisition for electrical equipment for field, please state volts and cycles.

P.O. No. _____

Initiating Officer _____

Division - Branch _____

Room _____

Extension _____

Date _____

Approved by (title and signature) _____

Division _____

Date _____

Code or Project _____

Date required _____

Purpose, Justification _____

Suggested Supplier (s) _____

Ship by

Surface

Air

Parcel Post

Pouch

TO _____

Item No.	Detailed Description	Quantity (and Unit)	Estimated price	
			per Unit	Total

ADM 24-2 770 6.M. - AS427

GOOD RECEIVED Date: _____

Signature: _____

Pc 2/20 C41



INSTITUTO DE INVESTIGACIONES AGROPECUARIAS

Punta Arenas, Abril 25 de 1973

Señor
Eugenio Sgaravatti
Oficial de Intercambio de Semillas
Dependencia de Ecología de Cultivos
y Recursos Genéticos
Dirección de Producción y Protección Vegetal
FAO of INIA.
Roma - ITALIA

Estimado señor:
El Instituto de Investigaciones Agropecuarias de Chile mantiene en la provincia de Magallanes, la más austral de América Latina un Jardín de Introducción, en el cual fueron sembradas las semillas de plantas forrajeras que Usted nos envió en 1972, junto con otras procedentes principalmente de URSS y Suecia.

La zona ganadera de Magallanes abarca aproximadamente cuatro millones de hectáreas, que están divididas ecológicamente en tres grandes áreas. Actualmente cubrimos una a través del Jardín de Otway, pero nos es indispensable establecer dos nuevos jardines a fin de tener una visión general de la provincia en cuanto a la adaptabilidad de ciertas especies nobles, es por ello que nos dirigimos nuevamente a Usted a fin de solicitarle el envío de muestras de cultivares de las siguientes especies:

Dactylis glomerata L.
Festuca rubra
Festuca arundinaceae
Lolium perenne
Bromus inermis
Bromus catharticus
Phalaris tuberosa
Phalaris arundinaceae
Medicago sativa
Trifolium pratense
Secale cereale

Trifolium repens L.
Festuca pratensis
Poa pratensis
Lolium multiflorum
Bromus arvensis
Agropyron elongatum
Phleum pratensis
Lotus corniculatus
Trifolium subterraneum
Hordeum vulgare

A continuación detallo a Usted las especies enviadas en 1972, indicando su número de origen FAO y una estimación grosera del comportamiento que han manifestado después de 7 meses de establecimiento. Cuando tengamos datos más precisos los enviaremos a Ud. para su información.

PLANT PRODUCTION	
APR 24 1973	
REFERRED TO:	INIA
[Handwritten signature]	
[Handwritten signature]	

2-2/20 5944.

HAZARETHI/SHGA
ETHIOPIA



በኢትዮጵያ የፍሬ-ፍሬና የአትክልት ጣቢያ
IMPERIAL ETHIOPIAN GOVERNMENT
INSTITUTE OF AGRICULTURAL RESEARCH
NATIONAL HORTICULTURAL CENTRE

የጣቢያ ቁጥር } 103
P.O.B. }

ሌላ ገቢ } 12186
PHONE }

ቀን : 11th January, 1974

ቁጥር :
Ref. No. 195/66

Mr. E. Sgaravatti
Seed Exchange Officer
Crop Ecology and Genetic Resources Unit
Plant Production and Protection Division
P.A.O.
Rome

Dear Mr. Sgaravatti,

Thank you very much for the seed of AVERRHOA CARAMBOLA, CORCHORUS OLITORIUS and the planting material of ZINGIBER OFFICINALE.

We should be most grateful for your assistance in obtaining for us PYRETHRUM seed, if possible of high PYRETHRIN yielding strains. My second request is for planting material of PIPER METHYSTICUM or "KAVA" which is grown in Fiji and other parts of Polynesia. We require the KAVA for trial here as a cash crop for export. It is now being used in the formulation of tranquillisers by the firm of Dr. Schwab of Munich.

Yours Sincerely,

T.H. Jackson
T.H. Jackson
FAO Horticulturist

AGP REGISTRY
25 JAN 1974
REFERRED TO DATE
A. [Signature]
When you do it:
1. Use our address as above ref.
2. Write this in the letter
3. Attach this letter to the copy of your reply.

THJ/EH

DR. H. K. JAIN
HEAD,
DIVISION OF GENETICS.

P.S. 2/20
No. F.24/Gen/V.H.1/9885
Division of Genetics,
Indian Agricultural Research Instt
New Delhi-12.

^{SK}
Dated the 1st September, 1972.

Dear Dr. Sgaravathi,

We are trying to build a world collection of chick pea (Cicer arietinum) in order to test extensive germ plasm under our agro-climatic conditions for disease resistance and other agronomic characters and subsequent utilization in breeding programme. I shall be grateful if you could kindly arrange to send us a collection of chick pea germ plasm (Samole packet seeds) from as many different sources as possible.

With kind regards,

Yours sincerely,

H. K. Jain

(H.K. Jain)

Dr. E. Sgaravath,
Seed Exchange Officer,
Crop Ecology and Genetic Resources Unit,
Plant Production and Protection Division,
Food and Agriculture Organization of United Nations,
Via delle Terme di Caracalla,
00 100 - ROME
ITALY.

PLANT PRODUCTION	
RD:	14 SEP 1972
REFERRED TO:	Initials
<i>Col. Sgaravath</i>	



Sgaravotto
P. 2/20 P. 115.

FOOD AND AGRICULTURE ORGANIZATION
OF THE UNITED NATIONS
UNITED NATIONS OFFICES
19, 27th AVENUE, PARKWAY
P. O. BOX 1481
ISLAMABAD
PAKISTAN

Ref: D/3/AMP.1

Date: 6 February 1974

Dear Mr. Leon,

Seed Exchange - Requirement of German soyabean varieties
for varietal trials in the North-West
Frontier Province of Pakistan

I have been informed that the Institut für Pflanzenbau und Pflanzenzüchtung at Giessen University and others in the Federal Republic of Germany have developed soyabean varieties which, I have been advised, may be very suitable to the environmental and soil conditions of the North-West Frontier Province of Pakistan. Special mention was made of the varieties of "Caloria" and "Gieso". May I request that a sufficient quantity of the promising high-yielding varieties will be obtained within our Seed Exchange Programme and pouched to us as soon as possible. The varieties received will be given to the Agricultural Research Institute, Peshawar, for inclusion in their soyabean varietal trials.

Thank you very much for your assistance in this matter. I hope, it will be possible to provide us with the seeds required by early April at the latest.

With kind regards,

Yours sincerely,

H. B. L. Corti
UNDP Senior Agricultural Adviser and
FAO Country Representative in Pakistan

Mr. J. Leon
Chief
Crop Ecology and Genetic Resources Unit (AGPE)
Plant Production and Protection Division
FAO - Rome

cc: Mr. T.N. Saraf, DBA, FAO Rome

AGP REGISTRY
10 FEB 1974
J. Leon

CENTRE POUR LE DEVELOPPEMENT DE L'HORTICULTURE

Cambèrène - B. P. 154 - Dakar - Sénégal

Pl. 2/20 Leuzon



P. N. U. D.
PROGRAMME DES NATIONS UNIES
POUR LE DEVELOPPEMENT
PROJET SEN / 71 510

ORGANISATION DES NATIONS UNIES
POUR L'ALIMENTATION ET L'AGRICULTURE

REPUBLIQUE DU SÉNÉGAL
MINISTÈRE
DU DEVELOPPEMENT RURAL

Dakar, March 7, 1974

Ref. DE 0/0 - 824/71/510
N. 28

Dear Mr. Sgaravatti,

Guanajuato

We would be glad if you could obtain for us a sample (50 gr.) of the "Cojumatlan" variety of onion which we understand is cultivated in Celaya, Mexico.

We are also interested in obtaining seed of new hybrids of potatoes which we believe are now being bred in America for tropical conditions. Ordinary "European" varieties of potatoes do well during the cool winter season here but are unsuitable for production after April.

Thanking you.

Yours sincerely,

L.B. Throver
Project Manager

Mr. E. Sgaravatti,
Seed Exchange Officer,
Crop Ecology and Genetic Resources Unit,
Plant Production and Protection Division,
F.A.O.,
Rome

Dr. Leon *L X*
Sgaravatti

BY POUCH

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
 HEADQUARTERS - VIA DELLE TERME DI CARACALLA - ROME - ITALY
 PLANT PRODUCTION AND PROTECTION DIVISION - SEED EXCHANGE SERVICE

CONTENTS OF SEED CONSIGNMENT No. 74/16

24 JANUARY 1974

FAO Seed Accession Number	Species	Cultivars/Varieties or Common/Vernacular Name	Weight of Sample
33.102	<i>Lens esculenta</i>	L. 1 Kémitra (petite verte)	25 gms
33.103	" "	L. 24 Souk et Tléta de Safi (blonde moyenne)	25 gms
33.104	" "	L. 51 Tahala (petite brune)	25 gms
33.105	" "	L. 53 Souk el Yemaa Sahim	25 gms
33.106	" "	L. 56 Hibride INRA	25 gms
	<u>seed supplied by:</u>	Institut National de la Recherche Agronomique D.P. 415 Rabat, MOROCCO	
33.107	<i>Cicer arietinum</i>	Local Improved	120 gms
33.108	" "	Portuguese	75 gms
33.109	" "	Bulgarian	75 gms
33.110	" "	E.L.B.	40 gms
33.111	" "	Californian Sel. K-31	75 gms
33.112	" "	Jericho - Israel	40 gms
33.113	" "	Flowdiv - Bulgaria	35 gms
33.114	" "	Savernij No. 2 - USSR	55 gms
33.115	" "	Local Population - Algeria	40 gms
33.116	" "	Abyssinian	30 gms
33.117	" "	Venezuela	50 gms
33.118	" "	Hungary	20 gms
	<u>seed supplied by:</u>	Agricultural Research Organization The Volcani Center Plant Introduction Service P.O. Bdx 6 Bet Dagan, ISRAEL	
33.119	<i>Cicer arietinum</i>	Sinimalia	200 gms
22878		<u>seed supplied by:</u> UNDP Office P.O. Box 913 Khartoum, SUDAN	

Mr. R.O. Lazaro
 Oficina Regional de la FAO
 Casilla 10095
 Santiago
 CHILE

MODEL 10

November 8, 1973

Mr. J. Marley
Chief, Purchasing and Control Branch, AFSP

E. Sgaravatti
Seed Exchange Officer, AGPE

Despatch of seed parcels

Would you please send by air freight our seed parcels as per list attached.

Expenses involved to be charged against budget code number: 2.9200.223.01.59.

Phytosanitary Certificates enclosed in each parcel.

ES: ab
AGPE-PL 2/20 General
cc: AGP Reg. (2)
→ Chrono
Freeman
Laudi, AFS
Seed Lab.

No.	Shipping order No.	FAO S.C. No.	Country	Address of Conesnee	Weight
1		73/410	JAPAN	Dr. S. Yoshioka Chief, Forage Crop Breeding Laboratory, Hokuriku Agricultural Research Experiment Station, Kani - Inada, <u>TAMABA</u> Higata-ken 943	1.530 Kg.
2		73/411	SPAIN	Mr. H.G. Hitchison, Project Manager, Proyecto de Desarrollo de Pastos y Forrajes, Apartado de Correo 153 <u>HEREDIA, Badajoz</u>	705 Gms.
3		73/416	ENGLAND	Dr. H. Spink , University College of Swansea, Department of Botany and Microbiology, Singleton Park Swansea SA2 8PP <u>WALES</u>	570 "
4		73/440	ROMANIA	Mr. A. Jacques, FAO Plant Breeding and Seed Production, C.P. 62 <u>BUCHAREST</u>	8.- Kg.
5		73/442	JORDAN	Resident Representative of the UNDP in Jordan, P.O. Box 565 <u>AMMAN</u> (Attention: Dr. S.P. Kohli, FAO Agricultural Officer)	687 Gms.
6		73/462	GERMANY	Prof. J. Sosmann, Deutscher Wetterdienst Zentralamt, Frankfurter Strasse 135 <u>605 OFFENBACH-MAIN</u>	7.210 Kg.
7		73/463	NORWAY	Agricultural University of Norway <u>AS St.</u>	7.160 "
8		73/465-A	U.S.S.R.	Dr. A.D. Kleschenko, c/o Hydrometeorological Service of the U.S.S.R. 12 Pavlic Morozov St. <u>MOSCOW</u>	7.240 "
9		73/465-B	do	do	7.260 "

MODEL 11

ORGANISATION DES NATIONS UNIES POUR
L'ALIMENTATION ET L'AGRICULTURE



ORGANIZACION DE LAS NACIONES UNIDAS
PARA LA AGRICULTURA Y LA ALIMENTACION

FOOD AND AGRICULTURE ORGANIZATION
OF THE UNITED NATIONS

Via delle Terme di Caracalla, 00100-ROME

Cables: FOODAGRI ROME

Telex: 61181 FOODAGRI

Telephone: 5797

Ref.

Roma, li

Spett. le
OSSERVATORIO FITOPATOLOGICO
Via Tevere - 00100 R O M A

Richiesta di visita fitosanitaria per il rilascio del relativo certificato

Speditore: FAO, Viale delle Terme di Caracalla, ROMA.

Destinatario: _____

Specie del seme: _____

Peso: _____

Numero dei colli: _____

Mezzo di trasporto: VIA AEREA.

Con osservanza

L'INCARICATO DELLA FAO
Seed Exchange Service



(1970)

 CERTIFICATO FITOPATOLOGICO
 PHYTOSANITARY CERTIFICATE
 CERTIFICADO FITOSANITARIO

Blocco N° 01904

 SERVIZIO PER LA PROTEZIONE DELLE PIANTE
 Plant protection service
 Servicio de protección fitosanitaria

N° 095179

OSSERVATORIO PER LE MALATTIE DELLE PIANTE DI

Roma

Si certifica che le piante, parti di piante o prodotti vegetali sotto descritti, accuratamente esaminati, in tutto o sui campioni rappresentativi. This is to certify that the plants, parts of plants or plant products described below or representative samples of them were thoroughly examined on.

Per la presente si certifica che le piante, parti di piante o prodotti vegetali qui se descrivono a continuación, o muestras representativas de las mismas, fueron minuciosamente examinadas el día (fecha) 12-3-74 (date) (day) (name) Fajard (by name) delegado speciale per le malattie delle piante, sono an authorized officer of the phytosanitary service and were found a functionario autorizado del servicio fitosanitario quien a su juicio, prácticamente inmunes da nemici e da malattie dannosi alle colture, e che la spedizione è giudicata conforme alle norme fitosanitarie attualmente in vigore nel paese importatore, come è specificato nella dichiarazione supplementare di cui appresso. of the importing country both as stated in the additional declaration hereon and otherwise.

vigentes en el país importador que se especifican en las declaraciones adicionales siguientes o en otra parte.

DESCRIZIONE DELLA SPEDIZIONE

 Description of the consignment:
 Descripción del envío:

Cognome, nome e indirizzo dello speditore FAO - Roma
 Name and address of exporter:
 Nombre y dirección del exportador

Cognome, nome e indirizzo del destinatario Mr. Gonzalo Avila - Casilla 128 - Cochabamba - Bolivia
 Name and address of consignee:
 Nombre y dirección del destinatario

Mezzo di trasporto aereo
 Means of conveyance:
 Medio de transporte:

Contenuto della spedizione semi
 Number and description of packages:
 Número y descripción de los bultos:

Numero e natura dei colli 1
 Quantity and name of produce:
 Cantidad y nombre del producto:

Provenienza (su domanda del paese importatore) FAO
 Origin (if required by importing country):
 Origen (si lo exige el país importador)

Luogo d'entrata
 Point of entry:
 Punto de entrada

Nome botanico (su domanda del paese importatore) rari
 Botanical name (if required by importing country):
 Nombre botánico (si lo exige el país importador)

Peso kg 0,120
 Weight:
 Marca dei colli
 Distinguishing marks:
 Marcos distintivos:

DICHIARAZIONE SUPPLEMENTARE

 Additional declaration:
 Declaraciones adicionales:

Sono state osservate le norme fitosanitarie
 Les réclammations phytosanitaires ont été observées
 Die phytosanitären Vorschriften wurden eingehalten
 The phytosanitary regulations have been observed

 Fatto a Roma il 12-3-74
 Made in on

MODEL 12

ES/arc 31.1.1974

ccs: - AGP Reg. 2
- Seed Lab. 1
- Legn
- Chrono

PL 2/20

1 FEB 1974

Dear Dr. O'Brien,

Thank you for your letter of 20 October 1973 which arrived here just a few days ago.

I would suggest to contact the following stations to obtain information and seed samples of:

Adesmia bicolor

- Instituto Botánico Darwiniano, San Isidro, Argentina
- Universidad Católica de Chile, Departamento de Fitotecnia, Facultad de Agronomía, Santiago, Chile.

Lotus angustissimus

- Institut National de la Recherche Agronomique, Station Centrale de Génétique et Amélioration des Plantes, Route de St Ger, Versailles, France.

Lotus corniculatus

- Please see attached list.

Lotus hispidus

- Zentral Institut für Genetik und Kulturpflanzen forschung, Gatersleben, East Germany.

Lotus pedunculatus

- Istituto e Orto Botanico dell'Università, Viale Mattioli, 25, Torino, Italy.

Vicia Sativa Amphicarpa

- I think the Plant Breeding Station in Elvas, Portugal, may be of help.

For information on collections in Israel, please apply to Mrs Jeva Ayalon, Plant Introduction Service, The Volcani Centre, Bet Dagan, Israel 50-200.

Yours faithfully,

E. Sgaravatti
Seed Exchange Officer
Crop Ecology and Genetic Resources Unit
Plant Production and Protection Division

Dr. A.D. O'Brien
Agricultural Research Station
Grafton, N.S.W. 2460
Australia

SOURCES FOR LOTUS CORNICULATUS

INSTITUTES

PORTUGAL

Plant Breeding Station
Elvas

URUGUAY

Centro de Investigaciones Agrícolas "Alberto Boerger"
La Estanzuela, Colonia

U. S. A.

U. S. D. A.
Beltsville, Maryland 20705

Cornell University
Ithaca, N. Y.

U. S. D. A.
ARS Pasture Laboratory
University Park
Pennsylvania

U. K.

Welsh Plant Breeding Station
Aberystwyth

U. S. S. R.

Ruž Gos Komis Sortaispyt
Moscow

PL/seq : 15 February 1974

cc : Sykes
Seed Lab. (2) ✓
Chron.
AGP Reg. (2)

PL 2/20 - Colombia

27 FEB. 1974

Dear Sir,

With reference to your letter dated 17 January 1974, I enclose
... herewith a list of addresses of Seed Merchants of grass seeds.

The main producers and exporters of these seeds are the U.S.A.,
Canada, Australia, New Zealand, Poland, Germany, Denmark and Holland.

The sizes of the bags (jute or cotton) are 50 kg. or 100 lb brutto,
depending on the measuring system adopted from the producing countries.

I trust that this information will be of assistance to you -
please do not hesitate to write to us again should you require
any further help in this connection.

Yours sincerely,

E. Sgaravatti
Seed Exchange Officer
Plant Production and Protection Division

Mr. V.O. Escallon
Technical Sub-Director
PROEXPO 00349
WL - 062
Bogotá, D.E.
COLOMBIA

SOME SEED GROWERS IN THE U.S.A.

ALABAMA

SHOREST FEED AND SEED COMPANY, Inc.
P.O. Box 338
Steele
Alabama
U.S.A.

CALIFORNIA

Dessert Seed Co., Inc.
P.O. Box 187
El Centro
California
U.S.A.

MARYLAND

Grasslyn
P.O. Box 177
College Park
Maryland
U.S.A.

MINNESOTA

Northern Field Seed Company
Winona
Minnesota
U.S.A.

MODEL 13



AGPE:MISC/71/2
20 December 1971

PROVISIONAL LIST OF GENETIC MATERIALS FOR PLANT INTRODUCTION AND EXCHANGE
LISTE PROVISOIRE DE SOUCHES GENETIQUES POUR L'INTRODUCTION ET L'ECHANGE DES PLANTES
LISTA PROVISIONAL DE MATERIALES DE GERMOPLASMA PARA LA INTRODUCCION Y EL INTERCAMBIO DE PLANTAS

CACAO CULTIVARS
CULTIVARS DE CACAO
CULTIVARES DE CACAO

prepared by
établi par
preparado por

Jorge León
and/et/y
Eugenio Sgaravatti

Food and Agriculture Organization of the United Nations. Rome, 1971
Organisation des Nations Unies pour l'Alimentation et l'Agriculture. Rome, 1971
Organización de las Naciones Unidas para la Agricultura y la Alimentación. Roma, 1971

WI/C4089

EXPLANATION/REMARQUE/EXPLICACION

This list of cultivars includes the collections at the following experiment stations:

Cette liste des cultivars du cacao comprend les collections des stations de recherche suivants:

Esta lista incluye los cultivares de cacao que se encuentran en las siguientes estaciones experimentales:

1. BRAZIL, Centro de Pesquisas do Cacau, Caixa Postal 7, Itabuna, Bahia.
2. CAMEROUN, Nkoemvone Research Station, Nkoemvone par Ebolowa.
3. CEYLON, Central Agricultural Research Institute, Gannoruwa, Peradeniya.
4. COLOMBIA, Centro Investigaciones Agropecuarias, Apartado Aéreo 233, Palmira.
5. COSTA RICA, Centro de Investigación y Enseñanza Graduada, Turrialba. (IICA).
6. ECUADOR, Estación Experimental Tropical "Pichilingue", INIAP, Apartado 24, Quevedo, Los Rios.
7. GHANA, Cocoa Research Institute (CSIR), P.O. Box 8, Tafo.
8. GRENADA, Ministry of Agriculture, Lands and Fisheries, Mt. Horne Station, St. Andrew's.
9. IVORY COAST, Institut Français pour le Café et le Cacao (IFCC), B.P. 1827, Abidjan.
10. JAMAICA, Cocoa Industry Board, P.O. Box 68, Kingston, 15.
11. MADAGASCAR, Ambanja Central Research Station, IFCC, Ambanja.
12. NIGERIA, Cocoa Research Institute of Nigeria, Federal Department of Agricultural Research, Moor Plantation, P.M.B. 5244, Ibadan.
13. TRINIDAD, Cocoa Research Unit, Faculty of Agriculture, University of the West Indies, St. Augustine.
14. SURINAME, Agricultural Experiment Station, P.O. Box 160, Paramaribo.
15. U.S.A., Puerto Rico, The Cacao Germplasm Collection, Federal Experiment Station of the USDA, Mayaguez 00745.
16. VENEZUELA, Estación Experimental de Cacaogua, Estado Miranda.

Under NOTES is included, when available, the following information:

- (a) country where the cultivar was selected;
- (b) meaning of the abbreviation;
- (c) synonyms or parental material in the case of hybrids.

Sous le paragraphe NOTES on trouvera les informations suivantes:

- (a) pays où le cultivar a été sélectionné;
- (b) signification des abréviations;
- (c) synonymes et matériel parental dans le cas des hybrides

Bajo NOTAS se incluye, cuando es disponible, la información siguiente:

- (a) país donde fué seleccionado el cultivar;
- (b) significado de la sigla;
- (c) sinónimos o tipos parentales en el caso de híbridos.

ACKNOWLEDGEMENTS/REMERCIEMENTS/AGRADECIMIENTOS

This list was prepared with the cooperation of the following people:

Cette liste a été établie avec la collaboration des personnes suivantes:

Esta lista se preparó gracias a la colaboración de las siguientes personas.

Dr. Paolo de T. Alvim, Itabuna, Brazil.
Dr. Enrique Ampuero, Pichilingue, Ecuador.
Dr. B.G.D. Bartley, Sao Tomé.
Dr. J.L. Creech, Beltsville, U.S.A.
Mr. A.M. Cruickshank, St. Andrews, Grenada.
Mr. D.F. Edwards, Tafo, Ghana.
Mr. L.K. Opeke, Ibadan, Nigeria.
Ing. J. Lanfranchi, Abidjan, Côte d'Ivoire.
Ing. J. Liabeuf, Nkoesvne, Cameroun.
Mr. L.P. de Liesser, Kingston, Jamaica.
Ing. Francisco Ocampo R., Palmira, Colombia.
Dr. R. Reiteg, Paramaribo, Surinam.
Ing. Humberto Reyes E., Caucagua, Venezuela.
Dr. Jorge Soria V., Turrialba, Costa Rica.
Le Directeur, Ambanja Central Research Station, République Malgache.
The Head, Cacao, Coffee and Minor Crops Division, Peradeniya, Ceylon.

REFERENCES/REFERENCIAS/REFERENCIAS

ENRIQUEZ, G.A. & SORIA V.J., Cacao cultivars register. IICA, Turrialba, Costa Rica, 1967 s.p.
U.S. DEPARTMENT OF AGRICULTURE, Cacao Clone Collection AGRS 34.37.4. 1967. 31p mimeographed.

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
ACU85		x					x					x					Nigeria
ALMEIDA													x				Trinidad
AM2		x				x						x					Brazil AM: Hacienda Amalia
AM1-109												x					"
AM1-139												x					"
APA4					x	x									x		Colombia APA: Amazonico Palmira
APA5					x	x									x		
AN27														x			Surinam
AX3-7													x				Trinidad AX: Trinidad hybrids
AX122-2 to 94													x				" (ICS8xSCA12)
B185													x				Ecuador B: Hacienda Bolivar
B231													x				"
BA44						x											" EBT239
C2 Tr886					x	x							x	x			Trinidad C: hybrid code
C4													x	x			" N38
C4P11		x									x		x				"
C11															x		"
C24-28													x				" (ICS1xICS6)
C24-93													x				" (ICS1xICS6)
C25-1 to 250													x				" (ICS1xICS8)
C32-10 to 196													x				" (ICS1xICS6)
C33-9 to 200													x				" (ICS1xSCA12)
C34-3 to 237													x				" (ICS6xSCA12)
C35-37 to 188													x				" (ICS6xSCA12)
C37-21													x				" (ICS60xSCA12)
C37-106													x				" (ICS60xSCA12)
C40												x					"
C60-47													x				" (ICS89xICS45)
C60-112													x				" (ICS89xICS45)
C60-126													x				" (ICS89xICS45)
C71-62 to 120													x				" (ICS98xICS89)
C83-1 to 109													x				" (ICS98)
C90-2 to 56													x				" (ICS44)
C92-9 to 26													x				" (ICS79)
C93-3 to 47													x				" (ICS6xICS55)
C94-8													x				" (ICS55)
C94-25													x				"
C95-24													x				" (ICS7)
C96-63													x				" (ICS88)

CULTIVAR	EXPERIMENT STATIONS																NOTES	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
C97-13															x		Trinidad	(ICS31)
C98-14															x		"	(ICS73)
CACAO HOUSE 1						x											"	EET306
CAM12B							x								x			
CAS1		x			x										x		Brazil	
CAS2		x																
CATONGO		x										x	x	x	x		"	
CBO159															x		Cameroon	CBO:Kumbo
CBO160															x		"	
CBO176															x		"	
CBO177															x		"	
CC1		x													x		Costa Rica CC:Cacao Centre, Turrialba	
CC3		x													x		" "	
CC5		x													x		" "	
CC9		x			x										x		" "	
CC10		x			x										x	x	" "	
CC11															x		" "	
CC17						x									x		" "	
CC18						x											" "	
CC27						x											" "	
CC29						x											" "	
CC30						x									x		" "	
CC33						x											" "	
CC34						x									x		" "	
CC35						x											" "	
CC36						x											" "	
CC37						x									x		" "	
CC38						x									x		" "	
CC39						x									x		" "	
CC40						x									x		" "	
CC41		x				x									x		" "	
CC42						x											" "	
CC43						x											" "	
CC44						x											" "	
CC45		x				x											" "	
CC46						x											" "	
CC47						x											" "	
CC48						x											" "	
CC49						x									x		" "	
CC54						x									x		" "	
CC57						x									x		" "	
CC60						x									x		" "	
CC67		x				x											" "	

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
CC69					x												Costa Rica
CC71																x	" "
CC74					x												" "
CC79					x												" "
CC83					x												" "
CC99					x												" "
CC100					x												" "
CC102					x												" "
CC103					x												" "
CC106					x												" "
CC120					x												" "
CC121					x												" "
CC124					x												" "
CC125					x												" "
CC128					x												" "
CC132					x												" "
CC136					x												" "
CC137					x												" "
CC138					x												" "
CC139					x												" "
CC143					x												" "
CC144					x												" "
CC152					x												" "
CC169					x												" "
CC173					x												" "
CC175					x												" "
CC178					x												" "
CC179					x												" "
CF176										x							Nigeria open pollinated ICS4
CHO18																x	Trinidad CHO: Choroni
CHO24																x	"
CHO28																x	"
CHO31																x	"
CHO41																x	"
CHO42																x	"
CHO44																x	"
CHO45																x	"
CHO163																x	"
CHO174																x	"
CHUAO24						x											Venezuela
CHUAO120						x											
CJ141																x	Ecuador
CL307																x	" CL: Hacienda Clementina
CL1951																x	"

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
CLP161																x	Venezuela CLP: Caño La Palma
CLP170																x	"
GRA32																x	" GRA: Guira
GRA33																x	"
GRA38																x	"
CRIOLO		x														x	"
D1																x	" D: (Ocumare 61xSCA6)
D4																x	" (Ocumare 61xSCA6)
D5																x	" (Ocumare 61xSCA6)
D11																x	" (Ocumare 61xSCA6)
D15																x	" (Ocumare 61xSCA6)
DIAMANTES 800				x													Costa Rica
DR1				x	x					x	x	x					Indonesia DR: Djatti Roenggo
DR2				x	x					x	x	x					"
DR38		x								x	x	x					"
E1 to 270		x				x											Ghana E: Efidausi
E15					x					x							Ecuador
E34					x					x							"
E41					x					x							"
ECNR104																x	Trinidad
EEG8		x															Brazil
EEG9		x															"
EEG13		x															"
EEG14		x															"
EEG25		x			x												"
EEG27		x			x						x						"
EEG29		x			x						x						"
EEG39		x			x						x						"
EEG45		x			x						x						"
EEG50		x			x						x						"
EEG64		x			x						x						"
EEG65		x			x						x						"
EET1						x											Ecuador EET: Estación CH1
EET2						x											" Experimental CH2
EET6						x											" Tropical C2 Tr880
EET7						x											" Pichilingue Pichilingue 15
EET10						x											" Pichilingue 19

CULTIVAR	EXPERIMENT STATIONS																NOTES	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
EET13						x											Ecuador	gja Vinces 69
EET14						x											"	Pichilingue 70
EET15						x											"	Pichilingue 71
EET16						x											"	Pichilingue 72
EET17						x											"	CG12
EET18						x											"	Pichilingue 88
EET19	x				x	x					x	x	x	x			"	Tenguel 15
EET20						x											"	Casa Vinces 1
EET21						x											"	Casa Vinces 2
EET22						x											"	Triunfo 3
EET23						x											"	Triunfo 7
EET24						x											"	Triunfo 11
EET25						x											"	Triunfo 13
EET26						x											"	Triunfo 15
EET27						x											"	Triunfo 18
EET28						x											"	Triunfo 20
EET29						x											"	Triunfo 21
EET30						x											"	Triunfo 22
EET31						x											"	Triunfo 23
EET33						x											"	Triunfo 29
EET34						x											"	Triunfo 30
EET35						x											"	Santa Rosa 2
EET37						x											"	Santa Rosa 6
EET38						x											"	Santa Rosa 11
EET39						x											"	Santa Rosa 12
EET40						x									x		"	Santa Rosa 13
EET41						x											"	Santa Rosa 15
EET42						x											"	
EET43						x											"	Santa Rosa 16
EET44						x											"	Santa Rosa 17
EET45	x					x											"	Santa Rosa 26
EET46						x											"	
EET47						x											"	Santa Rosa 31
EET48	x					x					x		x				"	Santa Rosa 34
EET49						x											"	Santa Rosa 36
EET50						x											"	Santa Rosa 37
EET51						x											"	Santa Rosa 38
EET53	x					x											"	Santa Rosa 42
EET54						x									x		"	Santa Rosa 45
EET55						x											"	San Javier 2
EET58						x											"	San Javier 5
EET59	x					x					x		x				"	San Javier 6
EET60	x					x											"	San Javier 7
EET61						x											"	San Javier 11
EET63						x											"	
EET64						x									x		"	San Javier 13
EET65						x											"	San Javier 20
EET66						x											"	San Javier 21
EET67						x									x		"	San Antonio 1
EET68						x											"	San Antonio 2
EET69						x											"	La Union 1
EET70						x											"	La Union 2
EET71						x											"	Esperanza 1
EET72						x											"	Granja Vinces 8
EET73						x											"	

CULTIVAR	EXPERIMENT STATIONS																NOTES	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
EET74						x											Ecuador	Maria 1
EET75					x	x									x		"	Pretoria 1
EET76					x	x											"	Santa Rosa 7
EET77					x												"	Santa Rosa 8
EET78					x												"	Santa Rosa 9
EET79					x												"	Pichilingue
EET80					x	x									x		"	Santa Rosa 19
EET83					x												"	Porvenir 33
EET84					x												"	Porvenir 34
EET85					x												"	Porvenir 35
EET86					x												"	Chiquinquirá 1
EET87					x												"	Pichilingue
EET88					x												"	Chiquinquirá 2
EET89					x												"	Pajarito 1
EET90					x												"	Eden 2
EET91					x												"	CH3
EET92					x												"	Montoya 8
EET93					x												"	Chorritos 1
EET94		x			x	x									x		"	Tenguel 1
EET98					x												"	LG14
EET99					x												"	Santa Rosa 32
EET100					x												"	Sacachispas 214
EET102					x												"	Granja Vinces 2
EET105					x												"	Mt22
EET107					x												"	Tenguel 36
EET112					x												"	Tenguel 3
EET113					x												"	San Juan 11
EET114					x												"	Bejuca 2
EET115					x												"	Granja Vinces 3
EET117					x												"	Tenguel 7
EET118					x												"	Santa Rosa 7
EET119					x												"	Santa Rosa 4
EET120					x												"	Porvenir 27
EET121					x												"	Granja Vinces 14
EET122					x												"	Cascay 1
EET123					x												"	Pirinao 2
EET124					x												"	Tenguel 2
EET125					x												"	Triunfo 4
EET126					x												"	Triunfo 6
EET129					x										x		"	Triunfo 10
EET130					x												"	Triunfo 12
EET131					x												"	Triunfo 16
EET134					x										x		"	Pajarito 2
EET135					x												"	Triunfo 28
EET136					x												"	Triunfo 31
EET137					x												"	Triunfo 33
EET138					x												"	Pichilingue
EET140					x												"	Triunfo 36
EET141					x												"	Santa Lucia 1
EET142					x												"	Jesús Maria 1
EET143					x												"	Jesús Maria 3
EET145					x												"	Vuelta Larga 9
EET146					x												"	Las guayas 1
EET147					x												"	Sarce 1
EET150					x												"	San Antonio 1

CULTIVAR	EXPERIMENT STATIONS																NOTES	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
EET153						x											Ecuador	San Francisco 3
EET154						x											"	San Vicente 3
EET155						x											"	San Vicente 5
EET157						x											"	Colon 1
EET158						x											"	Teresita 2
EET160						x											"	Tintal 3
EET161						x											"	Curiquingue 1
EET162						x	x					x	x				"	Curiquingue 2
EET163						x											"	Las Flores
EET164						x	x									x	"	San Carlos 1
EET165						x											"	San Carlos 2
EET167						x											"	Eloisa 1
EET168						x											"	Cordero 1
EET171						x											"	San José 2
EET173						x											"	Santa Clara 1
EET174						x											"	Mascota 1
EET175						x											"	Mascota 2
EET176						x											"	Mascota 3
EET177						x											"	Banon 1
EET178						x											"	Mestiza 1
EET179						x											"	El Angel 1
EET180						x											"	La Loma 2
EET181						x											"	La Loma 3
EET182						x											"	La Fuca 1
EET183						x	x										"	Naranjal 1
EET184						x											"	San Juan P.1
EET187						x											"	Santa Teresita 53
EET188						x											"	El Porvenir 54
EET189						x											"	El Porvenir 55
EET191						x											"	La Regina 57
EET193						x											"	Quinta Ceresa 59
EET194						x											"	Medio Mundo 70
EET199						x											"	Gria Experimental 1
EET200						x											"	La Maria 120
EET201						x											"	La Maria 121
EET202						x											"	Las Mercedes 114
EET203						x											"	Las Mercedes 113
EET204						x											"	Las Mercedes 116
EET205						x											"	Juana Deoro 117
EET206						x											"	Juana Deoro 118
EET207						x											"	La Costancia 1
EET208						x											"	Santa Rita 1
EET210						x											"	El Vergel 200
EET211						x											"	El Vergel 201
EET212						x											"	El Vergel 203
EET216						x											"	Tenguel 26
EET218						x											"	Tenguel 24
EET219						x											"	Maria Teresa 5
EET220						x											"	Tenguel 5
EET221						x											"	Tenguel 4
EET222						x											"	Pajarito 4
EET224						x											"	Tenguel 12
EET225						x											"	Tenguel 14
EET226						x											"	Granja Vincas 6
EET227						x											"	Tenguel 28

CULTIVAR	EXPERIMENT STATIONS																NOTES		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
EET228	x				x	x										x	Ecuador	Tenguel 54	
EET229						x												"	Santo Domingo 1
EET230						x												"	Pichilingue CH2
EET231						x												"	Maria Teresa 18
EET233						x												"	Hiler 1
EET234						x												"	San Marcos 76
EET235						x												"	San Minguel 22
EET236						x										x		"	Porvenir 9
EET237						x	x									x		"	Tenguel 22
EET238						x	x									x		"	Isla Bejuca-1
EET241						x												"	
EET242						x												"	
EET245						x												"	
EET247						x												"	
EET248						x												"	Hiler 2
EET249						x												"	(Colombia)
EET250						x												"	
EET251						x												"	
EET252						x												"	
EET253						x												"	(Venezuela) Las Fuentes 1
EET254						x												"	
EET255						x												"	
EET256						x												"	
EET258						x												"	
EET259						x												"	
EET260						x												"	
EET261						x												"	Hiler 3
EET263						x												"	(Brazil)
EET266						x												"	Hiler 5
EET267						x												"	(Colombia)
EET268						x												"	
EET269						x												"	
EET270						x												"	
EET271						x												"	
EET272						x												"	
EET273						x												"	
EET283						x												"	
EET284						x												"	Tenguel 17
EET301						x												"	Pichilingue
EET304						x												"	Pichilingue 1
EET305						x												"	Granja Vinces 20
EET308						x												"	Chinguirá 2
EET314						x						x						"	Clementina 15
EET318						x												"	Granja Vinces 7
EET319						x												"	Granja Vinces 17
EET321						x												"	Granja Vinces 18
EET329						x												"	Quinta Ceres 614
EET330						x												"	C.G.5
EET331						x												"	C.G.42
EET332						x												"	Casa 7
EET333						x						x	x	x	x			"	Silecia Archi.1
EET334						x						x	x		x			"	Silecia Archi.5
EET335						x												"	(Colombia)
EET336						x												"	
EET337						x												"	

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
EET338					x												Ecuador
EET341					x												"
EET347					x												"
EET349					x												"
EET352					x												"
EET353					x	x								x			"
EET357					x												"
EET359					x												"
EET360					x												Pichilingue 7013
EET361					x												Pichilingue 7017
EET362					x												Pichilingue 7128
EET363					x												Pichilingue 7142
EET364					x												Pichilingue 7200
EET365					x												Pichilingue 7582
EET366					x												Pichilingue 7730
EET367					x												Pichilingue 7733
EET368					x												Pichilingue 7783
EET369					x												Pichilingue 7789
EET370					x												Pichilingue 7794
EET371					x												Pichilingue 7862
EET372					x												Pichilingue 7866
EET373					x												SCA6xEET6
EET374					x	x											SCA6xEET22
EET375					x	x											EET62xSCA6
EET376					x	x											EET62xSCA6
EET377		x			x	x								x			EET156xSCA6
EET378		x			x	x								x			EET156xSCA6
EET379					x												EET156xSCA6
EET380					x												EET156xSCA6
EET381					x												EET156xSCA9
EET382					x												EET156xSCA9
EET383					x												SCA12xEET48
EET384					x												SCA12xEET48
EET385					x												SCA12xEET48
EET386					x												SCA12xEET48
EET387					x												GGxEET110
EET389					x												EET238xSCA12
EET390		x			x	x											EET238xSCA12
EET391					x	x											EET238xSCA12
EET392		x			x	x											EET332xSCA6
EET393					x												EET250xSCA6
EET394					x												EET250xSCA6
EET395					x												Silecia 8
EET396					x												Pichilingue 7241
EET397		x			x	x											Pichilingue 7438
EET398					x												Pichilingue 7805
EET399		x			x	x	x										Pichilingue 7811
EET400		x			x	x	x										Pichilingue 7818
EET401					x	x											Pichilingue 7321
EET402					x												Pichilingue 7322
EET403					x												Pichilingue 7364
EET404					x												Pichilingue 7419
EET405					x												"
EET406					x												"
EET407					x												"

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
EET408						x											Ecuador
EET409						x											"
EQ_SCA6												x					"
G8					x	x					x	x	x				Indonesia G: Getas
GA11	x				x									x			Haiti GA: Grande Anse Bay
GA57														x			"
GC7						x								x			Indonesia
GC29						x											"
GS1	x						x										Grenada GS: Grenada selection
GS5												x					"
GS7					x		x							x			"
GS10												x					"
GS17	x				x		x					x		x			"
GS19												x					"
GS29	x	x		x	x		x	x	x	x		x	x	x			"
GS32							x					x					"
GS36	x	x		x	x		x	x	x			x	x	x			"
GS42							x								x		"
GS46							x					x		x			"
GS48							x										"
GS50	x				x		x					x		x			"
GS67							x										"
GS71						x						x					"
GS77							x										"
GS78						x		x				x					"
GS79							x										"
GT1														x			Surinam
GT2														x			"
GT3														x			"
GTW	x													x			Trinidad
GW1	x																
HAA2															x		Venezuela (IMC67xPA30)
HAA3															x		"
HAA4															x		"
HAA5															x		"
HAA6															x		"
HAA8															x		"

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
ICS1	x	x	x		x	x	x	x	x	x			x	x	x	Trinidad ICS: Imperial EET274	
ICS4													x			" College	
ICS6	x	x	x		x	x	x	x	x			x	x	x		" selection SO ICS6-EET275	
ICS7							x					x				"	
ICS8	x		x		x	x	x	x	x			x	x	x		" open pollinated Trinitario EET227	
ICS9	x						x					x				" open pollinated Trinitario Criollo	
ICS11													x			" open pollinated Trinitario	
ICS16	x	x	x	x	x		x	x				x				"	
ICS19												x				"	
ICS22												x	x			"	
ICS25							x									"	
ICS29							x						x			"	
ICS32							x		x			x	x			"	
ICS36												x				"	
ICS38												x				"	
ICS39	x	x			x		x		x	x		x	x	x		"	
ICS40	x	x	x		x		x	x	x	x		x	x	x		"	
ICS43		x			x					x		x		x		"	
ICS44					x							x	x	x		"	
ICS45			x		x		x					x	x	x	x	"	
ICS46		x			x			x					x			"	
ICS47	x				x								x			"	
ICS48						x										" EET302	
ICS49												x				"	
ICS53					x			x					x			"	
ICS55												x	x			"	
ICS60	x	x	x		x		x	x	x			x	x	x	x	"	
ICS61		x										x				"	
ICS62												x				"	
ICS65														x		"	
ICS68			x													"	
ICS70												x				"	
ICS73												x				"	
ICS75		x											x	x	x	"	
ICS80												x				"	
ICS84	x	x	x		x	x						x	x	x		"	
ICS85												x				"	
ICS87												x				"	
ICS88												x				"	
ICS89	x	x	x		x		x	x	x	x		x	x	x		" EET328	
ICS91					x							x	x	x		"	
ICS93												x				"	
ICS95	x	x	x		x	x	x	x	x	x		x	x	x		" EET311	
ICS98		x	x		x		x	x	x			x	x	x		"	
ICS100	x	x			x	x		x				x	x	x	x	" EET312	
ICS111												x	x			" ICS1xICS6	
ICS296							x									"	
ICS650							x									"	
ICS654							x									"	
ICS667							x									"	
ICS676							x									"	
IFM1 to 43												x				" Criollo type	
IFM201 to 231												x				"	

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
IMC2												x					
IMC3						x						x					(Peru)
IMC5						x						x					
IMC6												x					
IMC10												x			x		
IMC11												x					
IMC13												x					
IMC14												x					
IMC16												x					
IMC18												x					
IMC20												x					
IMC22												x					
IMC23												x					
IMC27						x						x					
IMC31						x						x					
IMC33												x					
IMC36												x					
IMC38						x						x					EET 325
IMC39												x					
IMC40						x						x					EET 326
IMC41												x					
IMC42						x						x					
IMC44												x					
IMC45												x					
IMC47												x	x				
IMC48												x					
IMC49												x					
IMC51												x					
IMC53						x						x			x		
IMC54												x					
IMC55												x					
IMC56												x					
IMC57								x				x					
IMC58												x					
IMC60			x	x		x	x	x				x		x	x		
IMC61												x					
IMC63												x					
IMC65												x					
IMC66												x					
IMC67		x	x	x		x	x	x	x			x	x	x	x		EET 116
IMC68												x					
IMC71												x					
IMC76						x	x					x			x		
IMC77												x					
IMC78												x					
IMC83												x					
IMC85												x					
IMC89												x					EET 328
IMC94												x					
IMC96												x					
IMC97												x					
IMC98												x					
IMC103												x					
IMC104												x					
IMC105												x					

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
IMQ107												x					
IQUITOS 67				x													Peru
JA79												x					Ecuador JA: Hacienda Javilla
JA422												x					"
JA546												x					"
JACA					x												Cameroon
JAVA 19-60				x													
LAFI 7		x			x	x					x	x	x				Samoa
LARANJA					x												Brazil
LQ164																x	Venezuela LC: La Concepcion
LQ165																x	"
LM 169			x														LM: La Marquita
LP1												x					LP: La Paz
LP3												x					
LP5												x					
LP58												x			x		
LP63																x	
LP519												x					
LZ2					x												Ecuador LZ: Limoncilla
M1																x	Venezuela M: Miscellaneous 77xSCA6
M2												x	x				" selection Ocumare
M4		x			x	x											"
M8												x	x				"
M9					x								x				"
M78												x					"
M83													x				"
M89														x			"
M109															x		"
M120					x										x		"
M121															x		"
M137															x		"
M173															x		"
M252															x		"

CULTIVAR	EXPERIMENT STATIONS																NOTES		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
M253																x	Venezuela		
MARACUJA					x														
MATINA 2-14																x	Costa Rica		
MM47																	x	Venezuela MM: Morena Muro	
MM50																	x	"	
MM177																	x	"	
MO81																x	Peru MO: Morona		
MO90																x	"		
MO123																x	"		
MONASTERIO 65						x											x	Ecuador	
MOQ122																	x	" MOQ: Moquique	
MOQ216																	x	"	
MOQ413																	x	"	
MOQ417																	x	"	
MOQ663																	x	"	
MXC67																	x	Mexico MXC: Mexico	
Na31							x										x	Peru Na: Nanay	
Na32			x	x			x										x	x	"
Na33			x	x			x										x	x	"
Na34				x			x	x									x	x	"
Na173							x												"
Na254																	x		"
Na277																	x		"
Na312			x																"
Na338			x																"
Na387																	x		"
NTCA1																	x	Trinidad NTCA: Trinitario local hybrid	
NTCA2																	x	" open pollinated ICS1	
NTCA3																	x	" open pollinated ICS4	
NTCA4																	x	" Trinitario from Costa Rica	
NTCA5																	x	" Amazon (PA7xIMC47)	
NTCA6																	x	" Amazon (Na32xIMC60)	
NTCA7																	x	" Amazon (IMC76xNa32)	
NTCA9																	x	" Amazon	
NTCA10																	x	" Amazon from Surinam	
NTCA11																	x	" open pollinated Scavinia 12	
NTCA12																	x	" open pollinated IMC53	

CULTIVAR	EXPERIMENT STATIONS														NOTES			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	
NTCA13											x						Trinidad	open pollinated trinitario
NTCA14											x						"	open pollinated PA103
NTCA15											x						"	(PA7xIMC47)
NTCA16											x						"	(IMC6OxNa34)
NTCA17											x						"	PA35xPA7
NTCA18											x						"	Amazon Scavina 12
NTCA19											x						"	Pound's LZ2
NTCA20											x						"	open pollinated ICS80
NTCA21											x						"	open pollinated ICS93
NTCA22											x						"	PA35xPA7
NTCA23											x						"	open pollinated PA35xNa32
NTCA24											x						"	open pollinated PA35xNa32
NTCA25											x						"	open pollinated PA35xNa32
NTCA26											x						"	open pollinated NA32xPA7
NTCA27											x						"	open pollinated IMC6OxNa32
NTCA28											x						"	open pollinated IMC6OxNa32
NTCA29											x						"	open pollinated Na32xPA7
NTCA30											x						"	open pollinated Na32xPA7
NTCA31											x						"	Trinitario x local
NTCA32											x						"	open pollinated Amazon
NTCA33											x						"	open pollinated Amazon
NTCA34											x						"	open pollinated Amazon
NTCA35											x						"	open pollinated Amazon
NTCA36											x						"	open pollinated Amazon
NTCA37											x						"	open pollinated Amazon
NTCA38											x						"	CF175-ICS4
NTCA39											x						"	Trinitario x local
NTCA40											x						"	Criollo from Kumbo, Cameroon
NTCA41											x						"	Trinitario ICS1
NTCA42											x						"	Trinitario ICS1
NTCA43											x						"	Trinitario ICS1
OC60																x	Venezuela OC: Ocumare de la Costa	
OC61				x												x	"	"
OC63				x												x	"	"
OC66																x	"	"
OC67																x	"	"
OC73																x	"	"
OC77																x	"	"
ORIENTE 96																	x	Ecuador
7P				x				x			x	x	x	x			Peru	P: Peru
8P				x												x	"	"
10P				x												x	"	"
11P																x	"	"
12P				x							x	x				x	"	"
13P				x												x	"	"
14P																	x	"
18P												x	x				"	"
19P				x												x	"	"
20P				x													"	"

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
22P	x													x	x		Peru
23P					x										x		"
32P														x			"
43P					x									x			"
117P					x												"
PA1															x		Venezuela PA: Playa Alta
PA2															x		"
PA3						x									x		"
PA4															x		"
PA5															x		"
Pa4													x	x			Peru PA: Parinary
Pa5														x			PA: Peruvian Amazonico
Pa7			x	x			x										"
Pa13	x				x				x					x			"
Pa15	x				x									x			"
Pa16	x				x									x			"
Pa30	x								x				x		x		"
Pa32													x	x			"
Pa35		x	x			x							x	x			"
Pa39									x					x			"
Pa44														x			"
Pa46														x			"
Pa51													x				"
Pa81	x				x	x			x					x			"
Pa101														x			"
Pa120													x		x		"
Pa121	x				x				x				x	x	x		"
Pa148															x		"
Pa150	x				x				x	x			x	x	x		"
Pa169	x				x				x				x	x	x		"
Pa195													x	x			"
Pa218									x								"
Pa285	x																"
Pa303													x		x		"
FEN158															x		Venezuela FEN: Peniche
PENTAGONA 1	x																Costa Rica
F1 14														x			Venezuela hybrid
F1 18														x			" hybrid
F1 27														x			" hybrid
F1 271419														x			" hybrid
F1 271420														x			" hybrid
F1 273369														x			" hybrid
PIMIENTA														x			Brazil

CULTIVAR	EXPERIMENT STATIONS																NOTES	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
PORVENIR 7					x	x							x				Mexico	EET62
PORVENIR 10					x	x											"	EET96
POS1															x		Surinam	
POS2															x		"	
POS3															x		"	
POS4															x		"	
POS5															x		"	
POS6															x		"	
POS7															x		"	
POS8															x		"	
POS9															x		"	
POS10															x		"	
POS11															x		"	
POS12															x		"	
POS13															x		"	
POS14															x		"	
POS15															x		"	
POS16															x		"	
POS17															x		"	
POS18															x		"	
POS19															x		"	
POS20															x		"	
POS21															x		"	
POS22															x		"	
POS23															x		"	
POS24															x		"	
POS25															x		"	
POS26															x		"	
POS27															x		"	
POS28															x		"	
POS29															x		"	
POS30															x		"	
POS31															x		"	
POS32															x		"	
POS33															x		"	
POS34															x		"	
POS35															x		"	
POS36															x		"	
POS37															x		"	
POS38															x		"	
POS39															x		"	
POS40															x		"	
POS41															x		"	
POS42															x		"	
POS43															x		"	
POS44															x		"	
POS45															x		"	
POS46															x		"	
POS47															x		"	
POS48															x		"	
POS49															x		"	
POS50															x		"	
POS51															x		"	

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
POS52															x		Surinam
POS53															x		"
POS54															x		"
POS55															x		"
POS56															x		"
POS57															x		"
POS58															x		"
POS59															x		"
POS60															x		"
POS61															x		"
POS62															x		"
POS63															x		"
POS64															x		"
POS65															x		"
POS66															x		"
POS67															x		"
POS68															x		"
POS69															x		"
POS70															x		"
POS71															x		"
POS72															x		"
POS73															x		"
POS74															x		"
POS75															x		"
POS76															x		"
POS77															x		"
POS78															x		"
POS79															x		"
POS80															x		"
POS81															x		"
POS82															x		"
POS83															x		"
POTO 87						x											Costa Rica
FOUND 7		x			x										x		Peru
FOUND 11		x			x					x					x		"
FOUND 12		x			x										x		"
FOUND 19					x												"
FOUND 20					x										x		"
FOUND LZ						x											"
PQTO 73																x	Venezuela PQTO: Panaquirito
PQTO 75																x	"
PQTO 87																x	"
PY 21																x	Surinam
2R		x			x										x	x	Mexico R: Rosario selection
6R					x										x		" R: La Ridja

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
8R					x											x	Mexico
9R	x				x				x							x x	"
10R	x				x											x	"
13R					x											x	"
15R					x											x	"
17R																x x	"
19R					x											x	"
21R					x											x x	"
23R		x							x							x	"
24R					x											x	"
30R		x			x											x	"
34R																x	"
39R	x								x							x x	"
41R	x				x											x	"
43R	x				x												"
44R	x								x							x x	"
48R	x								x							x x	"
52R	x				x											x x	"
56R					x				x							x x	"
63R					x				x							x	"
68R					x											x	"
71R					x											x	"
75R					x				x							x	"
76R					x											x	"
78R					x											x	"
88R					x											x	"
100R					x											x x	"
101R		x							x							x x	"
105R		x			x				x							x x	"
113R		x														x	"
116R					x				x							x x	"
117R		x			x											x x	"
REDAMEL 1-22																x	Trinidad
REDAMEL 1-27																x	"
REDAMEL 1-30																x	"
REDAMEL 1-31																x	"
R9																x	Surinam
SAN JENARO 2		x			x x											x	Ecuador EST156
SANTA CLARA 3					x												"
SANTA ROSA 34					x												"
SC5		x			x x											x	Colombia SC: Selection Colombia
SC6		x			x x											x x x	" EST11
SC8					x												"

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
SC9				x													Colombia
SC10				x												x	"
SC12				x													" SC: Santa Cruz
SC13				x	x												"
SC20				x													"
SC24				x	x												"
SC49				x	x												"
SC51				x	x												"
SC55	x			x													"
SCA3																x	Ecuador SCA: Scavinia
SCA6	x	x		x	x	x	x	x	x							x	" EET111
SCA7																x	"
SCA8																x	"
SCA9	x				x	x		x								x	"
SCA10																x	"
SCA11																x	"
SCA12	x	x		x	x		x									x	" EET110
SCA17																x	"
SCA19																x	"
SCA23																x	"
SCA24																x	"
SCA27																x	"
S Cr2					x												Ecuador S Cr: Santa Cruz
S Cr4					x												"
S Cr5					x												"
S Gu3	x															x	Guatemala
S Gu4					x											x	"
S Gu26	x				x											x	"
S Gu50	x				x											x	"
S Gu54					x											x	"
S Gu60					x											x	"
S Gu63					x											x	"
S Gu69	x				x											x	"
S Gu71	x				x											x	"
S Gu82					x												"
S Gu84					x												"
S Gu85																x	"
S Gu89					x											x	"
SIA407					x												Colombia
SIAL008	x				x	x										x	Brazil SIAL: Seleçao Instituto Agronomico
SIAL42	x				x											x	" Leste
SIAL44	x				x											x	"
SIAL56					x											x	"
SIAL070	x				x	x											"
SIAL88	x				x	x										x	"

CULTIVAR	EXPERIMENT STATIONS															NOTES	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16
SIAL93	x				x	x									x	x	Brazil
SIAL98	x				x										x		"
SIAL105	x																"
SIAL163	x				x	x									x		"
SIAL164	x																"
SIAL169	x					x											"
SIAL244	x																"
SIAL325	x				x	x									x	x	"
SIAL339					x												"
SIAL357	x																"
SIAL407					x										x		"
SIAL433						x											"
SIAL577	x																"
SIAL580	x																"
SIAL581	x																"
SIAL638	x																"
SIC1	x				x										x	x	"
SIC2	x				x										x		"
SIC3															x		"
SIC4	x																"
SIC5	x																"
SIC6						x									x		"
SIC7						x									x		"
SIC17	x																"
SIC19	x																"
SIC20	x																"
SIC21	x																"
SIC22	x																"
SIC23	x																"
SIC24	x																"
SIC28						x						x					"
SIC72															x		"
SIC228						x											"
SIC250	x					x	x										"
SIC283	x																"
SIC301	x																"
SIC328	x						x										"
SIC329	x																"
SIC433	x						x										"
SIC439	x						x	x									"
SIC543	x																"
SIC628	x																"
SIC644	x																"
SIC647	x																"
SIC662	x																"
SIC680	x																"
SIC765	x																"
SIC801	x																"
SIC802	x				x	x									x		"
SIC806					x	x											"
SIC812	x														x		"
SIC813						x	x								x		"
SIC823						x	x								x		"

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
SIC831	x															x	Brazil
SIC842	x																"
SIC848	x																"
SIC864	x				x	x											"
SIC872	x																"
SIC876	x																"
SIC891	x																"
SJ27												x					Ecuador SJ: San Juan
SL6	x														x		Brazil Sao Thomé
SM2	x				x	x						x	x				" Sao Thomé
SM3												x					"
SNK5	x																Cameroon SNK: Station de N'Koemvone
SNK6	x																"
SNK7	x																"
SNK8	x																"
SNK10	x																"
SNK11	x																"
SNK12	x				x							x	x				"
SNK13	x																"
SNK14	x																"
SNK15	x																"
SNK16	x																"
SNK18	x																"
SNK19	x																"
SNK27	x																"
SNK28	x																"
SNK29	x																"
SNK30	x																"
SNK32	x																"
SNK33	x																"
SNK37	x																"
SNK39	x																"
SNK42	x																"
SNK44	x																"
SNK46	x				x												"
SNK48	x																"
SNK51	x																"
SNK52	x																"
SNK64	x																"
SNK67	x																"
SNK69	x																"
SNK74	x																"
SNK75	x																"
SNK103	x																"
SNK109	x																"
SNK110	x																"
SNK111	x																"

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
SNK131	x																Cameroon
SNK136	x																"
SNK178	x																"
SNK181	x																"
SNK194	x																"
SNK195	x																"
SNK203	x																"
SNK209	x																"
SNK213	x																"
SNK217	x																"
SNK223	x																"
SNK225	x																"
SNK239	x																"
SNK267	x																"
SNK269	x																"
SNK277	x																"
SNK279	x																"
SNK297	x																"
SNK304	x																"
SNK332	x																"
SNK343	x																"
SNK344	x																"
SNK348	x																"
SNK372	x																"
SNK376	x																"
SNK403	x																"
SNK404	x																"
SNK413	x																"
SNK415	x																"
SNK416	x																"
SNK422	x																"
SNK429	x																"
SNK450	x																"
SNK452	x																"
SNK456	x																"
SNK459	x																"
SNK460	x																"
SNK461	x																"
SNK462	x																"
SNK467	x																"
SNK473	x																"
SNK476	x																"
SNK477	x																"
SNK478	x																"
SNK479	x																"
SNK480	x																"
SNK481	x																"
SNK485	x																"
SNK486	x																"
SNK488	x																"
SNK489	x																"
SNK490	x																"
SNK492	x																"
SNK493	x																"
SNK494	x																"

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
SNK496		x															Cameroon
SP1													x				Surinam
SPA4		x		x	x										x		Colombia SPA: Selection Palmira
SPA5		x		x											x		"
SPA7		x													x		"
SPA9		x		x											x		"
SPA10		x		x											x		"
SPA11		x		x													"
SPA12		x		x													"
SPA17		x		x													"
STAHSL															x		Trinidad
STI100						x											Costa Rica
TENGUEL							x										Ecuador
TENGUEL 25		x				x	x								x		" EET103
TENGUEL 33		x					x								x		" EET95
TSA 565					x	x				x		x	x				Paru TSA: Trinidad selected Amazon
TSA644		x			x					x		x	x				" hybrid Cacao Board
TSA654		x			x							x	x				" SCA6xIMC67
TSA656		x															"
TSAN812							x								x		Trinidad TSAN: Trinidad selection
TSH516		x													x		" TSH: Trinidad selected hybrid
TSH539															x	x	"
TSH548															x	x	"
TSH565		x				x									x	x	" SCA6xIMC67
TSH602															x	x	"
TSH606															x	x	"
TSH608															x	x	"
TSH644							x								x	x	"
TSH774		x													x		"
TSH792						x	x								x	x	" TSAN792
TSH796															x	x	"
TSH812															x	x	"
TSH858															x	x	"
TSH865															x	x	"
TSH866															x	x	"
TSH908															x	x	"
TSH919															x	x	"
TSH920															x	x	"
TSH924															x	x	"

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
TSH975												x	x				Trinidad
TSH979												x	x				"
TSH1104												x	x				"
TSH1105												x	x				"
Type 15							x										Amazon
Type 18							x										Amazon
Type 41							x										Amelonado
Type 52							x										Criollo
Type 194							x										Criollo
Type 195							x										Criollo
UF4					x												Costa Rica UF: United Fruit Co.
UF10	x				x								x				" "
UF11					x							x					" "
UF12	x				x							x	x				" "
UF20	x				x												" "
UF29	x		x									x	x				" "
UF36					x								x				" "
UF38					x								x				" "
UF93					x												" "
UF122					x								x				" "
UF168	x				x							x					" "
UF191					x								x				" "
UF210	x																" "
UF221	x				x		x	x				x	x	x			" "
UF223					x												" "
UF242	x				x								x				" "
UF273					x								x				" "
UF295	x				x												" "
UF296					x								x				EST282
UF601					x								x				" "
UF613	x	x	x	x	x								x	x			EST4
UF650	x		x	x	x		x	x					x	x			EST3, EST279
UF652					x									x			" "
UF654	x				x								x	x			EST278
UF666					x												" "
UF667	x				x	x	x	x	x				x	x	x		EST281, EST313
UF668	x				x		x						x	x			" "
UF672	x				x									x			" "
UF676	x				x	x	x							x			EST280
UF677					x	x							x	x	x		EST9
UF700					x												" "
UF703					x									x			" "
UF704					x									x			" "
UF705					x												" "
UF706					x												" "
UF707					x									x			" "
UF708					x									x			" "
UF709					x												" "
UF710					x									x			" "
UF711					x									x			" "
UF712					x									x			" "

CULTIVAR	EXPERIMENT STATIONS																NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
UF713					x											x	Costa Rica
UF714					x											x	" "
UF715					x											x	" "
UF716					x											x	" "
UF717					x											x	" "
UPA134		x					x										
UPA138		x					x										
UPA143		x					x										
UPA337		x					x										
VENEZUELA												x					Venezuela
WA1							x										Ghana WA: Wageningen
WA2							x										"
WA40						x	x						x				"
WA48						x	x						x				"
WA57						x	x						x				"
WAE2							x										" WAE: WACRI hybrid Amelonado Amazon
WAE3							x										"
WAE4							x										"
WAE5							x										"
WAE11							x										"
WB2							x										" WB: WACRI local Trinitario
WB3							x										"
WBE4							x										" WBE: WACRI hybrid Trinitario
WBE6							x										" Amazon
WE2							x										" WE: WACRI Amazon Selected
WE3							x										"
WE4							x										"
WE5							x										"
WEA3							x										" WEA: WACRI hybrid Amazon Amelonado
WEB1							x										" WEB: WACRI hybrid Amazon
WEB3							x										" Trinitario

U.S.A. LIST OF SEED GROWERS

ALABAMA

AUTAUGA CRIMSON CLOVER ASSOCIATION
Originators and Growers
PRATTVILLE
Alabama

SEGREST FEED AND SEED COMPANY, Inc.
P.O. Box 338
SLOCUMB
Alabama

ARIZONA

ADVANCE SEED COMPANY
P.O. Box 6157
PHOENIX
Arizona

VALLEY FEED AND SEED Co.
P.O. Box 1110
PHOENIX
Arizona

CALIFORNIA

DESSERT SEED Co., Inc.
P.O. Box 187
EL CENTRO
California

FERRY-MORSE SEED Co.
P.O. Box 100
MOUNTAIN VIEW
California

RAMSEY SEED COMPANY
Wholesale Field Seeds
California Bank Building
1155 E. 14th St.
SAN LEANDRO
California

SEED RESEARCH SPECIALISTS, Inc.
P.O. Box 3091
MODESTO
California

COLORADO

THE BARTELDES SEED COMPANY
P.O. Box 9025
3770 East 40th Avenue
DENVER 16
Colorado

COLORADO (Cont'd)

LONGMONT SEED Co.
3 South Bowen St.
LONGMONT
Colorado

WESTERN SEED Co.
1425 15th Street
DENVER
Colorado

CONNECTICUT

ASGROW SEED COMPANY INTERNATIONAL
MILFORD
Connecticut

FLORIDA

FULTON-COLE SEED COMPANY
ALTURAS
Florida

KILGORE SEED COMPANY
Division of Asgrow Seed Company
PLANT CITY
Florida

(N.B.: Enquire or order from:
Asgrow Seed Co. International
P.O. Drawer 72, Milford,
Connecticut).

SIMPSON NURSERY COMPANY
Nurserymen and Seed Growers
MONTICELLO
Florida

ILLINOIS

THE ALBERT DICKINSON COMPANY
CHICAGO
Illinois

ILLINOIS SEED PRODUCERS ASSOCIATION
107 N. Fifth St.
CHAMPAIGN
Illinois

MOEWS SEED COMPANY
GRANVILLE
Illinois

ILLINOIS (Cont'd)

NOBLE BROTHERS
Wholesale Field Seeds and Soy Beans
GIBSON CITY
Illinois

VAUGHAN'S SEED COMPANY
10 W. Randolph St.
CHICAGO 1
Illinois

IOWA

DUBUQUE SEED COMPANY, Inc.
Wholesale Seeds
169-171 Iowa Street,
P.O. Box 457
DUBUQUE
Iowa

EARLY MAY SEED Co.
SHENANDOAH
Iowa

UNITED HYBRID GROWERS ASSOCIATION
SHENANDOAH
Iowa

KANSAS

DOWD SEED COMPANY
1624 East Fulton
Garden City
Kansas

FRONTIER HYBRID, Inc.
Scott City
Kansas

KENTUCKY

F.W. RICKARD SEEDS, Inc.
WINCHESTER
Kentucky

YOPP SEED Co.
318-320 South Second Street
PADUCAH
Kentucky

LOUISIANA

ALEXANDRIA SEED Co. Inc.
Wholesalers
2022 3rd Street
ALEXANDRIA
Louisiana

KALMBACH-BURCKETT Co. Inc.
Seed Department
SHREVEPORT
Louisiana

REUTER SEED Co. Inc.
NEW ORLEANS
LA. 70119

STECKLER SEED Co.
Seed Growers and Merchants
NEW ORLEANS 3
Louisiana

MARYLAND

GRASSLYN
P.O. Box 177
COLLEGE PARK
Maryland

WM. G. SCARLETT and Co.
Seeds
608-632 President Street
BALTIMORE 2
Maryland

THE BELT SEED COMPANY
BALTIMORE 2
Maryland

MASSACHUSETTS

ROSS BROS. Co.
Seeds
187 Commercial Street
WORCESTER 8
Massachusetts

MICHIGAN

FERRY-MORSE SEED Co.
DETROIT
Michigan

MINNESOTA

NORTHERN FIELD SEED COMPANY
WINONA
Minnesota

NORTHRUP KING and Co.
Seedsmen
MINNEAPOLIS
Minnesota

PETERSON SEED COMPANY
512 W. 78th Street
MINNEAPOLIS 23
Minnesota

SELDOM-WATTS SEED Co.
Wholesale Seed Merchants
St. Paul 7
Minnesota

MISSOURI

CORNELI SEED COMPANY
Breeders and Growers
SAINT LOUIS 2
Missouri

ED. F. MANGELSDORF and BRO., Inc.
EMBRO SEED Co.
P.O. Box 327
SAINT LOUIS 3
Missouri

PEPPARD SEED Co.
1101-31 West Eight St.
KANSAS CITY 7
Missouri

RUDY-PATRICK SEED COMPANY
1212 West 8th St.
KANSAS CITY 1
Missouri

MONTANA

MONTANA SEED COMPANY
525 East Curtiss
P.O. Box 507
BOZEMAN
Montana

NEBRASKA

THE ARROW SEED Co.
Wholesale Field and Grass Seeds
Box 155
BROKEN BOW
Nebraska

MILLER SEED COMPANY
P.O. Box 1823
1540 Cornhusker Highway
LINCOLN
Nebraska

TEKSEED HYBRID COMPANY
TEKAMAH
Nebraska

NEW-MEXICO

NEW-MEXICO SEEDS, Inc.
Box 149, Rt.4
TUCUMCARI
New-Mexico

NEW-YORK

CHAMPLAIN SEED GROWER'S COOPERATIVE, Inc.
WESTPORT
New York

THE STANDARD SEED Co.
Wholesale Field Seed Merchants
560 Fulton Street
P.O. Box 366
BUFFALO 5
New York

VAUGHAN'S SEED COMPANY
85 White Street
NEW YORK 13,
N.Y.

NORTH CAROLINA

McNAIR SEED COMPANY
LAURINBURG
North Carolina

OKLAHOMA

JOHNSTON SEED COMPANY
P.O. Box 1392
ENID
Oklahoma

OREGON

HOPKINS SEED COMPANY
IMBLER
Oregon

JENKS-WHITE SEED Co.
261 State St.,
P.O. Box 267
SALEM
Oregon

PENNSYLVANIA

ROBERT BUIST COMPANY
Seedsmen
48. Front St.
PHILADELPHIA 5,
Pennsylvania

W. ATLEE BURPEE Co.
Seed and Bulb Growers
PHILADELPHIA 32
Pennsylvania

SEABOARD SEED COMPANY
Field and Grass Seeds
701 South Front Street
PHILADELPHIA 47
Pennsylvania

SHELL'S SEED HOUSE
Walter S. Schell, Inc.
Tenth and Market Sts.
HARRISBURG
Pennsylvania

SOUTH DAKOTA

BOBBER SEEDS, Inc.
P.O. Box 751
RAPID CITY
South Dakota

THE SEXAUER Co.
Seedsmen
BROOKINGS
South Dakota

TEXAS

DOUGLAS W. KING COMPANY
Pasture Grass Specialists
P.O. Box 527
SAN ANTONIO 6
Texas

PAYMASTER SEED FARMS
P.O. Box 1632
PLAINVIEW
Texas

RILEY YIELDMASTER SEED CORPORATION
DIMIT
Texas

VIRGINIA

WBTSEX SEED COMPANY
HARRISONBURG
Virginia

T.W. WOOD and SONS
Seedsmen
RICHMOND
Virginia

WASHINGTON

SPOKANE SEED COMPANY
Growers and Processors of Seed
East 8015 Alki
P.O. Box Parkwater 7
SPOKANE 6
Washington

PROVISIONAL CATALOGUE OF GENETIC MATERIALS FOR INTRODUCTION AND EXCHANGE

CATALOGUE PROVISOIRE DE SOUCHES GÉNÉTIQUES POUR L'INTRODUCTION ET L'ÉCHANGE DES PLANTES

CATÁLOGO PROVISIONAL DE MATERIALES DE GERMOPLASMA PARA LA INTRODUCCIÓN Y EL INTERCAMBIO DE PLANTAS



TROPICAL PASTURES :
grasses and legumes

PÂTURAGES TROPICAUX :
graminées et légumineuses

PASTOS TROPICALES :
gramíneas y leguminosas

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE

ORGANIZACIÓN DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACIÓN

Digitized by the Hunt Institute for Botanical Documentation