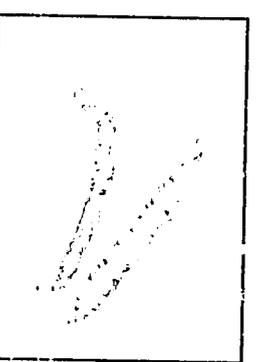




# 1.1 FOOD LEGUMES

ARACHIS, CAJANUS, CICER, LENS,  
LUPINUS, PHASEOLUS, PISUM,  
PSOPHOCARPUS, VICIA  
and VIGNA

E. Bettencourt  
J. Konopka  
A.B. Damania



## IBPGR DIRECTORIES OF GERMLASM COLLECTIONS

1. I Food Legumes (except Soyabean)<sup>1/</sup>
1. II Soyabean<sup>1/</sup>
2. Root and Tuber Crops (Aroids, Cassava, Potato, Sweet Potato, Yams and Others). 2nd edition, 1986.
3. I Cereals: Wheat (1980)<sup>2/</sup>
3. II Cereals: Maize (1980)<sup>2/</sup>
3. III Cereals: Rice (1980)<sup>2/</sup>
3. IV Cereals: Sorghum and Millets (1981)<sup>2/</sup>
3. V Cereals: Barley (1982)<sup>2/</sup>
4. Vegetables (1982)<sup>2/</sup>
5. I Industrial Crops (Cacao, Coconut, Piper, Sugarcane and Tea) (1981)
5. II Industrial Crops (Beet, Coffee, Cotton, Oil Palm and Rubber) (1989)
6. I Tropical and Sub-Tropical Fruits and Tree Nuts (1984)
6. II Temperate Fruits and Tree Nuts (1989)
7. Forages (Grasses, Legumes, etc.) (1984)

<sup>1/</sup> The first, general, Food Legumes Directory was published in 1980 and is now out of print. It has been revised and split into two

<sup>2/</sup> Out of print and being revised; to be published in 1989-90

Other IBPGR publications of relevance to the crops covered in this Directory:

Descriptors for Bambara Groundnut (1987)

Descriptors for Chickpea (1985)

Descriptors for Cowpea (1983)

Descriptors for Faba Bean (1985)

Descriptors for Groundnut (1985) (Revised)

Descriptors for Lentil (1985)

Descriptors for Lupins (1981)

Descriptors for *Phaseolus acutifolius* (1985)

Descriptors for Pigeonpea (1981)

Descriptors for *Vigna aconitifolia* and *V. trilobata* (1985)

Descriptors for *Vigna mungo* and *V. radiata* (1985) (Revised)

Descriptors for *Vigna umbellata* and *V. angularis* (1985)

Descriptors for Winged Bean (1982)

Catalog of *Arachis* Germplasm Collections in South America (1984)

Systematic and Ecogeographic Studies on Crop Gene-pools: 4. *Vigna* species of Africa (in preparation)

IBPGR publications covering aspects of *in vitro* work relevant to genebanks include:

Simpson M.J.A. and Withers, L.A. 1986. Characterization of Plant Genetic Resources Using Isozyme Electrophoresis: A Guide to the Literature. International Board for Plant Genetic Resources, Rome

Scowcroft, W.R. 1984. Genetic Variability in Tissue Culture: Impact on Conservation and Utilization. International Board for Plant Genetic Resources, Rome

Withers, L.A. 1980. Tissue Culture Storage for Genetic Conservation. International Board for Plant Genetic Resources, Rome

Withers, L.A. 1982. Institutes Working on Tissue Culture for Genetic Conservation. International Board for Plant Genetic Resources, Rome

For information on coverage of and access to the IBPGR In Vitro database consult:

Wheclans, K. and Withers, L.A. 1984. The IBPGR International Database on In Vitro Conservation. FAO/IBPGR Plant Genetic Resources Newsletter, 60: 33-38

DIRECTORY OF GERMPLASM COLLECTIONS

1.1  
**FOOD  
LEGUMES**

*ARACHIS, CAJANUS, CICER, LENS,  
LUPINUS, PHASEOLUS, PISUM,  
PSOPHOCARPUS, VICIA  
and VIGNA*

*E. Bettencourt  
J. Konopka  
A.B. Damania*

IBPGR  
ROME, 1989

The International Board for Plant Genetic Resources (IBPGR) is an autonomous international scientific organization under the aegis of the Consultative Group on International Agricultural Research (CGIAR). IBPGR was established by the CGIAR in 1974. The basic function of IBPGR is to promote and coordinate an international network of genetic resources centres to further the collection, conservation, documentation, evaluation and use of plant germplasm and thereby contribute to raising the standard of living and welfare of people throughout the world. Financial support for the core programme is provided by the Governments of Australia, Austria, Belgium, Canada, China, Denmark, France, FRG, India, Italy, Japan, the Netherlands, Norway, Spain, Sweden, Switzerland, the UK and the USA as well as the United Nations Environment Programme and the World Bank

**Citation:**

IBPGR. (1989). *Directory of Crop Germplasm Collections. 1. I. Food Legumes. Arachis, Cajanus, Cicer, Lens, Lupinus, Phaseolus, Pisum, Psophocarpus, Vicia and Vigna.* Bettencourt, E., Konopka, J. and Damania, A. B. International Board for Plant Genetic Resources, Rome

ISBN 92-9043-133-4

IBPGR Headquarters  
Via delle Sette Chiese 142  
00145 Rome  
Italy

## FOREWORD TO THE SECOND EDITION

This directory replaces the first edition published in 1980. The format differs from the first edition in several respects. Most obvious is the use of a standard set of headings for each entry, with each being included even where no information was available to IBPGR. It is hoped that there will be feedback to IBPGR from the users to fill in these gaps. Individual readers may also wish to treat their directory as a 'working copy' by filling in the information as it becomes available to them.

In those cases where it has not been possible to verify all the taxonomic names used, they have been included as cited by curators. In some cases where a name has been used that is generally regarded as no longer valid for that species, it has been retained as being the name still used by curators and, hence, to identify accessions in collections.

IBPGR wishes to acknowledge the International Lupin Association for its input to the section concerning lupin germplasm collections.

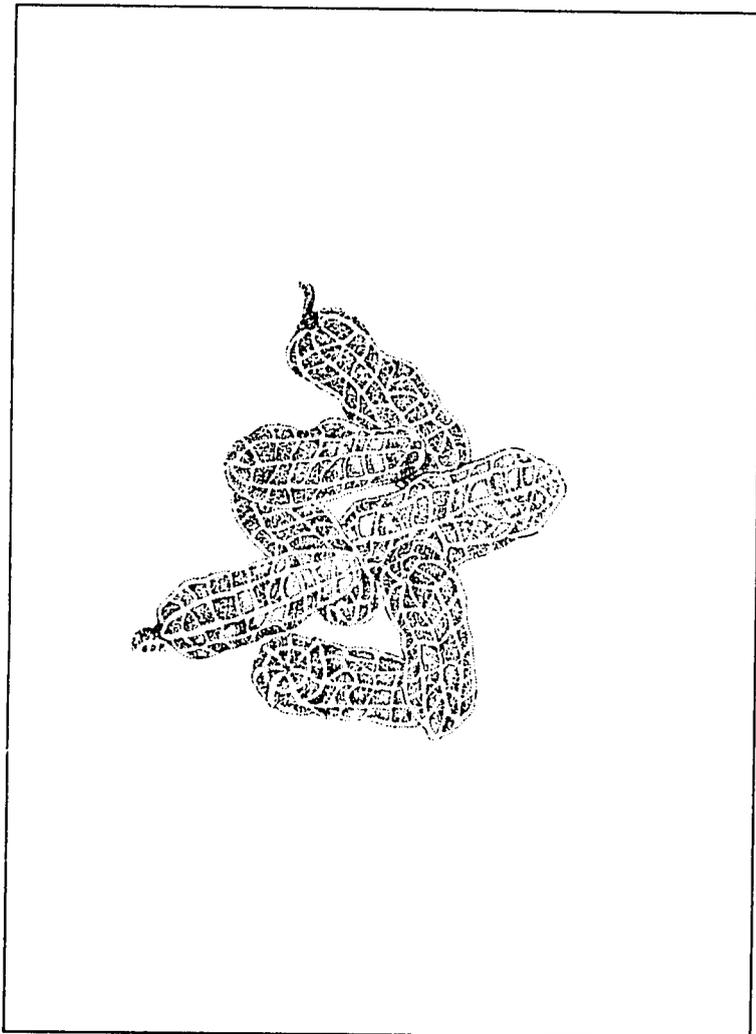
It is the hope of IBPGR that this directory will prove useful, and that it will act as a catalyst in stimulating interest in the conservation and use of the genetic resources of food legumes.

*J.T. Williams*  
Director  
IBPGR

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*Arachis*



ARGENTINA

ARACHIS

Estación Experimental Regional Agropecuaria (EAA)  
Instituto Nacional de Tecnología Agropecuaria (INTA)  
B.P. 5988, Manfredi, Córdoba

Telephone:  
Telex:  
Cable:

Curator/person in charge: J. R. Pietrarelli

Details of collection: Arachis hypogaea, over 2200 accessions as follows: 1960 populations from Argentina (135), Bolivia (685), Brazil (331), Paraguay (481), Peru (230), other countries (98); 55 cultivars from Argentina (12), Brazil (3), other countries (40); 203 improved lines from Argentina (25), other countries (178)

Arachis spp., 17 wild species from Argentina, Bolivia, Brazil and Paraguay

Maintenance of collection: As seeds: short-term seed storage at ambient temperatures, in pods in coarse netted cloth bags. This is an active collection at present but will be duplicated at INTA in Pergamino as part of the IBPGR designated base collection for South American Arachis cultivated species

Duplication of collection: Partially duplicated at Texas A & M University, USA and Centro Nacional de Recursos Genéticos (CENARGEN), Brazil

Availability: Freely available

Quarantine: Exchange of germplasm must adhere to quarantine regulations

Evaluation: 420 accessions have been evaluated for 16 descriptors; 71 accessions for 14 descriptors and 729 accessions for 9 descriptors

Documentation: Partial and computerized. North Star Horizon (CP/M operating system) is used. Print-outs available from INTA, Pergamino. E. Frustos is in charge of documentation

ARGENTINA

Instituto Nacional de Tecnología  
Agropecuaria (INTA)  
Casilla de Correo 31  
2700 Pergamino

Telephone: (0477) 220 57 / 8  
Telex: 17518 INTA AR  
Cable: INTA EXPERIM Pergamino

Curator/person in charge: H. Sosa

Details of collection: Arachis hypogaea, 78 accessions from Ghana (40), Malawi (33), and Somalia (5). This material was collected by missions organized by the IBPGR

Maintenance of collection: As seeds: long-term seed storage at -18°C. Seeds moisture content reduced to 5% to 7%, in hermetically sealed cans. The collection from Manfredi will be moved to Pergamino as soon as the storage and other facilities become available

IBPGR designated base centre for South American cultivated Arachis germplasm

Duplication of collection: Duplicated at International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India

Availability: Freely available

Quarantine: Exchange of germplasm must adhere to quarantine regulations

Evaluation: In progress using IBPGR descriptor list

Documentation: Partial and computerized. Print-outs are available. E. Frustos is in charge of documentation

ARGENTINAARACHIS

Instituto Botanico del Nordeste  
Corrientes

Telephone:  
Telex:  
Cable:

Curator/person in charge: A. Krapovickas

Details of collection: Arachis spp., wild as follows:  
A. correntina, 2  
A. duranensis, 7  
A. monticola, 5  
Other unidentified Arachis species, 18

Maintenance of collection: As seeds and plants

Duplication of collection: CENARGEN, Brazil and Texas A&M University, USA

Availability: Available if sufficient seed present for distribution

Quarantine: Exchange of germplasm must adhere to quarantine regulations

Evaluation: In progress

Documentation: Partial

AUSTRALIA

Division of Plant Industry  
Commonwealth Scientific & Industrial Research  
Organization (CSIRO)  
G.P.O. Box 1600  
Canberra City, ACT 2601

Telephone: (062) 46 49 11  
Telex: 62351 PICAN  
Cable: PLANTIND CANBERRA

Curator/person in charge: R. Pullen

Details of collection: Arachis hypogaea, 51

Maintenance of collection: As seeds: medium-term seed storage at 2°C

Duplication of collection: Not duplicated

Availability: Available in limited quantity, for research purposes only

Quarantine: Imported material must pass through quarantine

Evaluation: No evaluation data is available

Documentation: Partial and manual

BANGLADESH

Bangladesh Agricultural Research Institute (BARI)  
G.P.O. Box 2235  
Joydebpur, Dhaka

Telephone: 391270 / 390241 / 390231  
Telex:  
Cable: RESAGRI

Curator/person in charge: M. H. Mondal

Details of collection: Arachis hypogaea, 225 landraces, selections and cultivars from Australia (5), Bangladesh (2), China (10), India (158), Japan (2), Nigeria (2), Pakistan (4), Philippines (27), Sudan (10), Sri Lanka (1), Uganda (1) and USA (3)

BANGLADESH (cont.)

ARACHIS

Maintenance of collection: As seeds: long-term seed storage at -10°C, in deep-freezer, with no RH control

Duplication of collection: No information

Availability: Freely available

Quarantine: Quarantine regulations to be followed by all parties in any exchange of germplasm

Evaluation: In progress in batches

Documentation: Manual. Computerization is due to commence

BRAZIL

Centro Nacional de Recursos Genéticos (CENARGEN) Telephone: 272 42 03 / 272 02 53  
Empresa Brasileira de Pesquisas Agropecuárias (EMBRAPA) Telex: (061) 1622 Brasília  
C.P. 10.2372, 70.770 Brasília D.F. Cable:

Curator/person in charge: J. Silva

Details of collection: Arachis hypogaea, 1300 accessions from Argentina, Brazil, Bolivia and Paraguay (curator of Arachis collection: José F. M. Valls)  
247 accessions are maintained as a special collection of plants at Instituto Agronomico de Campinas (IAC)  
179 samples collected in 1984 from central Brazil and Mato Grosso do Sul and in 1985 from Maranhao, Pioni:

A. burkartii  
A. benthamii  
A. dardanoi  
A. diogeni  
A. glabrata  
A. guaranítica  
A. helodes  
A. lutescens  
A. oleroi  
A. paraguariensis  
A. pintoii  
A. prostrata  
A. pusilla  
A. sylvestris  
A. tuberosa

Rhizobium samples (27) were also obtained whenever available

Maintenance of collection: As seeds: long-term seed storage at -18°C and short-term seed storage at 15°C. Plants of wild species maintained in nursery

IBPGR designated base centre for wild perennial species of Arachis germplasm

Duplication of collection: Partially at Instituto Botanico del Nordeste, Corrientes, Argentina and Texas A&M University, USA

Availability: Freely available. Requests for germplasm should be sent to Chief, CENARGEN

Quarantine: No information

Evaluation: In progress on wild material

Documentation: Computerized list of passport and collection site data are available. For further information see Valls, F.M. José (1983) Collection of Arachis germplasm in Brazil. FAO/IBPGR Pl. Genet. Resources Newsl. 53: 9-14

COLOMBIA

ARACHIS

Instituto Colombiano Agropecuario (ICA)  
 Centro Experimental - Palmira  
 Apartado Aéreo 233  
 Palmira Valle

Telephone: 281 70  
 Telex:  
 Cable: ICA

Curator/person in charge: G. Bastidas

Details of collection: Arachis hypogaea, 81 accessions from ICRISAT, India and 68 varieties from Colombia, Mexico, USSR, and Venezuela

Maintenance of collection: As seeds: short-term seed storage at 10°C and 60% RH, in plastic containers

Duplication of collection: Partially duplicated at ICRISAT, India

Availability: Freely available

Quarantine: Restrictions for imports

Evaluation: In progress

Documentation: Partial and manual

CUBA

Instituto de Investigaciones Fundamentales  
 en Agricultura Tropical (INIFAT)  
 Alejandro de Humbolt  
 Santiago de las Vegas  
 La Habana

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: R. Martinez Viera

Details of collection: Arachis hypogaea, 273

Maintenance of collection: Short-term seed storage at ambient temperatures (cold store under construction)

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: In progress

Documentation: Computerized for passport data (32 descriptors), conservation (13 descriptors) and variable numbers of evaluation and characterization measurements

ETHIOPIA

Plant Genetic Resources Centre (PGRC)  
 Institute of Horticultural Research  
 P.O. Box 30726  
 Addis Ababa

Telephone: 18 03 81  
 Telex: 21361 GTZ ET  
 Cable: GENE BANK, Addis Ababa

Curator/person in charge: M. Worede

Details of collection: Arachis hypogaea, 16

ETHIOPIA (cont.)

ARACHIS

- Maintenance of collection: As seeds: long-term seed storage at -10°C and medium-term seed storage at 4°C and 30% to 40% RH in hermetically sealed aluminium laminated foil bags
- Duplication of collection: Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG
- Availability: Freely available
- Quarantine: Material must go through quarantine
- Evaluation: No information
- Documentation: Computerized and in progress using HP 125 microcomputer. HP 3000 computer with database management system "MINISIS" belonging to ILCA is also being utilized

GHANA

Plant Genetic Resources Unit  
Crops Research Institute  
P.O. Box 7  
Bunso

Telephone:  
Telex:  
Cable:

- Curator/person in charge: S. O. Bennett-Lartey
- Details of collection: Arachis hypogaea, 25 landraces from Ghana and 76 from ICRISAT  
6 wild Arachis species from ICRISAT
- Maintenance of collection: As seeds: long-term seed storage in deep-freezers, in aluminium foil containers
- Duplication of collection: Duplicated at University of Ghana, Legon
- Availability: Freely available
- Quarantine: Phytosanitary certificate required
- Evaluation: Evaluated according to IBPGR descriptor list
- Documentation: Manual. Passport and characterization data available

GREECE

Cotton and Industrial Plants Research Institute  
Sindos  
574 00 Thessaloniki

Telephone: (031) 79 94 44  
Telex:  
Cable:

- Curator/person in charge: F. Xanthopoulos
- Details of collection: Arachis hypogaea: 11 landraces from Peloponnesus and Macedonia, Greece; 4 commercial cultivars from USA; 30 breeders' lines from India, Republic of South Africa and USA
- Maintenance of collection: As seeds: in cold store and as single plants in nurseries
- Duplication of collection: At USDA, Texas, USA
- Availability: Freely available on exchange basis
- Quarantine: Phytosanitary certificate needed for import
- Evaluation: All accessions have been evaluated for most characters according IBPGR descriptor list
- Documentation: Complete and manual

**HUNGARY**

**ARACHIS**

Research Centre for Agrobotany  
Institute for Plant Production  
and Qualification (IPPQ)  
H-2766 Tápiószele

Telephone: Tápiószele 41  
Telex: 226981 AGBOT H  
Cable:

Curator/person in charge: I. Karsai / A. L. Kiss / A. Szucs

Details of collection: Arachis hypogaea, 260

Maintenance of collection: As seeds: long-term seed storage at -20°C with no RH control, in airtight glass jars.  
Medium-term seed storage at 0° to 4°C

Duplication of collection: No information

Availability: Freely available provided sufficient seed is available

Quarantine: Phytosanitary certificate required

Evaluation: Partial, in progress

Documentation: Partial and manual. Computerization in progress

**INDIA**

Genetic Resources Unit  
International Crops Research Institute  
for the Semi-Arid Tropics (ICRISAT)  
Patancheru P.O.  
Andhra Pradesh 502 324

Telephone: Hyderabad 22 40 16  
Telex: 953 152203 ICRI IN  
Cable: CRISAT, Hyderabad

Curator/person in charge: M. H. Mengesha

Details of collection: Arachis hypogaea, over 11,000 accessions from Angola (1), Argentina (385), Australia (53), Barbados (4), Belgium (4), Belize (27), Benin (14), Bolivia (233), Botswana (1), Brazil (447), Bulgaria (4), Burkina Faso (61), Burma (18), Cameroon (6), Central African Republic (2), Chad (15), Chile (12), China (203), Colombia (1), Comoros (1), Congo (6), Costa Rica (1), Côte d'Ivoire (80), Cuba (37), Cyprus (6), Ecuador (3), Egypt (16), Equatorial Guinea (13), Fiji (2), Gambia (32), Ghana (53), Greece (4), Guinea (22), Honduras (4), Hungary (2), India (2708), Indonesia (135), Iran (10), Israel (80), Jamaica (4), Japan (46), Democratic Kampuchea (1), Kenya (42), Republic of Korea (3), Liberia (12), Libyan Arab Jamahiriya (1), Madagascar (47), Malawi (146), Malaysia (54), Mali (31), Martinique (6), Mauritius (26), Mexico (9), Morocco (21), Mozambique (147), Niger (21), Nigeria (338), Pakistan (1), Paraguay (181), Peru (308), Philippines (29), Portugal (6), Puerto Rico (21), Rwanda (1), Senegal (254), Sierra Leone (22), Somalia (9), Republic of South Africa (138), Spain (4), Sri Lanka (22), Sudan (197), Swaziland (8), Syria (1), Taiwan (48), Tanzania (375), Thailand (6), Togo (11), Trinidad and Tobago (5), Turkey (7), Uganda (165), UK (16), Uruguay (38), USA (1799), USSR (64), Venezuela (17), Vietnam, Democratic Republic of (4), Yemen (1), Zaire (108), Zambia (240) Zimbabwe (499) and of unknown origin (1369)

Maintenance of collection: As seeds and single plants: medium-term seed storage at 4°C and 30% RH, in sealed plastic containers. Also as clonally replicated plants for rhizomatous wild species

IBPGR designated base centre for cultivated Arachis germplasm

Duplication of collection: North Carolina State University, Raleigh, USA. Southern Region Plant Introduction Station, Experiment, Georgia, USA

Availability: Freely available

INDIA (cont.)

ARACHIS

**Qua.antine:** Seeds sent to ICRISAT should be accompanied by a phytosanitary certificate from the country of origin and an import permit. The import permit from the Indian plant quarantine authorities can be arranged through ICRISAT provided the following details are sent, viz. nature of seeds, number of samples, weight of seeds and name of the consignor. Seeds must be despatched only after receipt of orange and green colour tags with the import permit number on them. The following regulations also apply for importation: (1). Seeds should be harvested from disease-free plants, be physiologically mature and dry. Small, shrunken and damaged seeds should not be sent. (2). Seeds should be harvested from fields free of diseases, rusts and scabs including Puccinia arachidis and Sphaceloma arachidis. This should be stated clearly on the phytosanitary certificate. Donated plants should be inspected regularly and must be declared free from viral diseases such as groundnut mottle, groundnut stunt and marginal chlorosis. All groundnut seeds must be decorticated before despatch. (3). Sample size should be restricted to 100 seeds. (4). Consignments of germplasm originating from North and South America will have to be grown at an intermediate post-entry quarantine station in a non groundnut growing country and only healthy seedlings or cuttings can be imported. (5). Advance notice of despatch should be sent to: Project Director, Central Plant Protection Training Institute (CPPTI), Rajendranagar, Hyderabad 500 030, Chief Plant Quarantine Officer B. K. Varma, and the Director of Research, ICRISAT

**Evaluation:** Completed for most of the accessions, as per IBPGR descriptor list

**Documentation:** Passport data have been completely computerized. Evaluation data are being computerized

INDIA

National Research Centre for Groundnut  
Indian Council for Agricultural Research (ICAR)  
Timbawadi  
Junagadh 362 015  
Gujerat

Telephone:  
Telex:  
Cable: GNUTSEARCH Junagadh

**Curator/person in charge:** N. R. Bhagat

**Details of collection:** Arachis hypogaea, 6299 accessions  
Arachis spp., 10 accessions

**Maintenance of collection:** As seeds

**Duplication of collection:** Some accessions are maintained by National Bureau of Plant Genetic Resources (NBPGR) at Regional Station, Trichur

**Availability:** No information

**Quarantine:** Imported seeds should be accompanied by a phytosanitary certificate from the country of origin and an import permit. Applications for import permit should be addressed to: Plant Protection Adviser to the Government of India, Directorate of Plant Protection, Quarantine and Storage, N.H. IV, Faridabad 121 001, India. The following regulations also apply for importation: (1). Seeds should be harvested from disease-free plants, be physiologically mature and dry. Small, shrunken and damaged seeds should not be sent. (2). Seeds should be harvested from fields free of diseases, rusts and scabs including Puccinia arachidis and Sphaceloma arachidis. This should be stated clearly on the phytosanitary certificate. Donor plants should be inspected regularly and must be declared free from viral diseases such as groundnut mottle, groundnut stunt and marginal chlorosis. All groundnut seeds must be decorticated before despatch. (3). Sample size should be restricted to 100 seeds. (4). Consignments of germplasm originating from North and South America will have to be grown at an intermediate

ARACHIS

Quarantine (cont.) post-entry quarantine station in a non groundnut growing country and only healthy seedlings or cuttings can be imported. For further details see The Plants, Fruits and Seeds (Regulation of Import into India) Order, 1984 (No. 8-19/81-PP-1) available from the Ministry of Agriculture, Government of India, Department of Agriculture and Cooperation, "Krishi Bhavan", New Delhi 110 001, India

Evaluation: Evaluation is in progress for morpho-agronomic characters and oil producing traits

Documentation: Manual

INDONESIA

Bogor Research Institute for Food Crops (BORIF)  
Jalan Cimanggu Kecil, 2  
Bogor

Telephone: 288 20 / 279 75  
Telex:  
Cable: BALITTAN BOGOR

Curator/person in charge: I. Manwan

Details of collection: Arachis hypogaea, 1730 accessions mainly old varieties, advanced and breeding lines

Maintenance of collection: As seeds: medium-term seed storage at 5°C, in plastic containers or tins

Duplication of collection. Some accessions at ICRISAT, Patancheru, India; 486 samples at Bogor Research Institute for Food Crops (BORIF); 69 samples at Malang Research Institute for Food Crops (MARIF)

Availability: Freely available

Quarantine: No known restrictions

Evaluation: In progress for agronomic traits

Documentation: Manual and partial

INDONESIA

Department of Agronomy  
Faculty of Agriculture  
Gadjah Mada University  
Jl. Sekip  
P.O. Box 1  
Yogyakarta

Telephone:  
Telex:  
Cable:

Curator/person in charge: Soebekti

Details of collection: Arachis hypogaea, 155 landraces and commercial cultivars mainly from Indonesia

Maintenance of collection: As seeds: in cold store

Duplication of collection: Research Institute for Food Crops, Bogor and Sukamandi

Availability: Restriction on personal requests

Quarantine: No information

Evaluation: All accessions have been evaluated

Documentation: Manual

ISRAEL

ARACHIS

Israel Gene Bank for Agricultural Crops  
Volcani Centre  
P.O. Box 6  
50-250 Bet-Dagan

Telephone: (03) 98 04 58  
Telex: 341118 BXTV IL  
Cable:

Curator/person in charge: M. Zur

Details of collection: Arachis hypogaea, 200 commercial cultivars and breeders' lines from Argentina, Republic of South Africa, USA and Zimbabwe

Maintenance of collection: As seeds: long-term seed storage at -10°C, in aluminium containers

Duplication of collection: No information

Availability: Freely available

Quarantine: Phytosanitary certificate essential for import

Evaluation: Most of the material has been evaluated

Documentation: Partial and computerized

MALAYSIA

Malaysian Agriculture Research and  
Development Institute (MARDI)  
Serdang, Selangor

Telephone:  
Telex:  
Cable:

Curator/person in charge: S. H. Anang

Details of collection: Arachis hypogaea, 273 primitive cultivars from Malaysia

Maintenance of collection: As seeds: medium-term seed storage at 0 to 10°C at MARDI's Bambang Lima Station, walk-in cabinet

Duplication of collection: Some samples duplicated at ICRISAT, India

Availability: Freely available

Quarantine: No known restrictions

Evaluation: Characterization has been carried out using IBPGR and ICRISAT descriptor lists modified for local priorities

Documentation: Complete and manual. Computerization in progress

MOROCCO

Station Centrale des Plantes Fourragères  
Institut National de la Recherche Agronomique (INRA)  
P.O. Box 415  
Rabat

Telephone:  
Telex: 31702 DRA M  
Cable:

Curator/person in charge: B. Sakr

Details of collection: Arachis hypogaea, 159 accessions as follows: 95 varieties from Cuba, Côte d'Ivoire, Libya, Senegal and Spain; 8 selections donated by INRA, France; and 56 accessions from ICRISAT, India

ARACHIS

Maintenance of collection: As seeds: no special seed storage at present but deep-freezers with IBPGR assistance will be operational in the the near future

Duplication of collection: Some accessions duplicated at ICRISAT, India

Availability: Available in limited quantity

Quarantine: No known restrictions

Evaluation: In progress for agronomical and phenological characters

Documentation: Partial and manual

PAPUA NEW GUINEA

Department of Primary Industry  
Crop Research Division  
P.O. Box 417  
Konedobu

Telephone:  
Telex: AGRIC PNG NE 22143  
Cable: AGRIC KONEDOBU PNG

Curator/person in charge: F. M. Dori

Details of collection: Arachis hypogaea, 145 cultivars

Maintenance of collection: As seeds: medium-term seed storage at 4° to 6°C and 30% to 40% RH, in airtight glass jars

Duplication of collection: Federal Experimental Station, Mayaguez, Puerto Rico; Kingaroy Research Station, Queensland, Australia and ICRISAT, Hyderabad, India

Availability: Freely available for experimental purposes only

Quarantine: Import permit is required. Samples should be treated as per regulations and be accompanied by a phytosanitary certificate. For export seeds are treated and accompanied by a phytosanitary certificate

Evaluation: Evaluation has been carried out on all accessions

Documentation: Complete and manual

PERU

Universidad Nacional Agraria (UNA)  
Apartado 456  
La Molina  
Lima

Telephone: (35) 203 50  
Telex:  
Cable: UNIGRARIA La Molina

Curator/person in charge: M. S. G. del Carpio R.

Details of collection: Arachis hypogaea, 100 landraces collected in Peru-Selva

Maintenance of collection: As seeds: short-term seed storage at 10°C and 50% RH

Duplication of collection: This collection is partially duplicated at some of the Institutes working on groundnuts in the Andean Zone

Availability: Freely available

PERU (cont.)

ARACHIS

Quarantine: No information  
 Evaluation: Evaluation has been carried out on morpho-agronomic characters  
 Documentation: Manual and partial

PHILIPPINES

National Plant Genetic Resources Laboratory (NPGRL) Telephone: (3585) 25 67  
 Institute of Plant Breeding (IPB) Telex: 2435 UPLB PU  
 College of Agriculture Cable: NPGRL IPB UPLB Laguna  
 University of the Philippines at Los Baños (UPLB)  
 College, Laguna 3720

Curator/person in charge: N. C. Altoveros

Details of collection: Arachis hypogaea, 753 landraces and primitive cultivars from Argentina, Australia, Belgium, Bolivia, Brazil, Burkina Faso, Cameroon, China, Cuba, Egypt, Ethiopia, Ghana, India, Indonesia, Israel, Jamaica, Japan, Mexico, Nigeria, Paraguay, Peru, Philippines, Puerto Rico, Senegal, Sierra Leone, Republic of South Africa, Switzerland, Taiwan, Uganda, Uruguay, USA, Venezuela, West Africa and Zimbabwe. Some of the accessions have been donated by ICRISAT, IITA, USDA and Institute for Agricultural Research, Indonesia

Maintenance of collection: As seeds: long-term seed storage at -20°C, medium-term seed storage at 4° to 5°C and 60% RH. Active collection at 0°C, in airtight glass containers and tin cans. Seed moisture content below 6%

Duplication of collection: No information

Availability: Freely available

Quarantine: Phytosanitary certificate and import permit are required

Evaluation: Partial

Documentation: Manual and partial. Passport data are available

SENEGAL

Institut Senegalais de Recherches Agricoles (ISRA) Telephone: Bambeý 84350  
 Centre National de Recherches Agronomiques (CNRA) Telex:  
 Boîte Postal 51 Cable:  
 Bambeý

Curator/person in charge: M. Sonko

Details of collection: Arachis hypogaea, 900

Maintenance of collection: As single plants

Duplication of collection: Partially at ICRISAT, India

Availability: Available in limited quantity

Quarantine: Phytosanitary certificate required

Evaluation: The collection has been evaluated for length of cycle, pods and pellicule. British classification (Bunting) used and other local descriptors used at Bambeý

ARACHIS

Documentation: Manual and complete. IBPGR descriptor list have been used for evaluation and documentation

TOGO

Direction de la Recherche Agronomique (DRA) Telephone: 21 00 43  
Boite Postale 2318 Telex:  
Cacavelli Cable:  
Lomé

Curator/person in charge: T. B. Djaneve

Details of collection: Arachis hypogaea, 49 primitive cultivars and 8 improved varieties

Maintenance of collection: As seeds: medium-term seed storage at 5° to 10°C and 90% RH, in plastic or aluminium bags

Duplication of collection: Institut de Recherche Agronomique Tropicale et des Cultures Vivrières (IRAT)

Availability: Available on exchange basis and to researchers

Quarantine: Service de la Protection des Vegetaux is in charge of all seed material imported or exported

Evaluation: In progress

Documentation: Manual and complete for passport and collection data for primitive cultivars. Documentation in progress for improved varieties from IRAT

UGANDA

Department of Agriculture Telephone:  
Serere Research Station Telex:  
P.O. Soroti Cable:

Curator/person in charge: C. M. Busolo-Bulafu

Details of collection: Arachis hypogaea, 900 landraces, cultivars and wild relatives from many countries,

Maintenance of collection: As seeds. Active collection

Duplication of collection: No information

Availability: Available

Quarantine: No known restrictions

Evaluation: Partial

Documentation: Manual

UNION OF THE SOVIET SOCIALIST REPUBLICS

N. I. Vavilov All-Union Scientific Research Institute Telephone: (314) 22 34 / 48 48  
of Plant Industry (VIR) Telex:  
42-44, Herzen Street Cable:  
190000 Leningrad

Curator/person in charge: V. I. Krivchenko

UNION OF THE SOVIET SOCIALIST REPUBLICS (cont.)

ARACHIS

Details of collection: Arachis hypogaea, 17 accessions from Argentina, Brazil, Cameroon India, Iraq and Sudan. There are many more accessions of Arachis species (including wild types) in this collection but only the above are listed in the Institute's Delectus Seminum 1982-85

Maintenance of collection: As seeds: long-term seed storage at -10°C, in sealed cans and medium-term seed storage at 4° to 5°C and 30% RH

Duplication of collection: No information

Availability: No information

Quarantine: Imported material must go through quarantine

Evaluation: No information

Documentation: Manual/partially computerized and complete. A Delectus Seminum is periodically published listing samples available for exchange

UNITED STATES OF AMERICA

|  |   |
|--|---|
| National Seed Storage Laboratory (NSSL)<br>Colorado State University<br>Fort Collins, Colorado 80523 | Telephone: (303) 484 04 02<br>Telex: CSU 910-930-9008<br>Cable: |
|--|---|

Curator/person in charge: S. Eberhart

Details of collection: Arachis hypogaea, 4229 accessions from Argentina, Australia, Belgium, Brazil, Bolivia, Cameroon, Canada, Chile, China, Colombia, Costa Rica, Cuba, Ecuador, Egypt, El Salvador, Ethiopia, Haiti, Honduras, Hungary, India, Indonesia, Iran, Israel, Italy, Jamaica, Japan, Liberia, Libya, Malawi, Mexico, Morocco, Niger, Nigeria, Pakistan, Paraguay, Peru, Philippines, Portugal, Puerto Rico, Senegal, Republic of South Africa, Spain, Sudan, Surinam, Thailand, Turkey, Uganda, USA, USSR, Uruguay, Venezuela and Vietnam

A. stenosperma, 2 donated by USDA, Georgia

A. villosulcarpa, 1 donated by USDA, Georgia

Maintenance of collection: As seeds: long-term seed storage at -14°C, uncontrolled humidity, in hermetically sealed packets. Short-term seed storage at 5°C

Duplication of collection: Some accessions are duplicated at USDA, in Georgia, Oklahoma and Virginia; Wilson City Groundnut Co., Texas; New Mexico Crop Improvement Association; Agricultural Experiment Stations in Florida, North Carolina, Oklahoma and Texas, USA

Availability: Only if not available from other sources

Evaluation: Responsibility for evaluation of all NSSL accessions lies with the USDA Regional Plant Introduction Stations who have active collections of the same material

Documentation: Print-outs are available. Ms. L. Sonnen, is in charge of accessions

UNITED STATES OF AMERICA

|   |  |
|---|--|
| Regional Plant Introduction Station (USDA/ARS)<br>Experiment, Georgia 30312 | Telephone: (404) 228 72 55<br>Telex:<br>Cable: |
|---|--|

Curator/person in charge: R. Pittman

ARACHIS

Details of collection: Arachis hypogaea, total 5912 accessions from Africa (13), Argentina (441), Asia (1), Australia (51), Belgium (5), Bolivia (361), Brazil (446), Cameroon (2), Guyana (5), Bulgaria (1), Burkina Faso (28), Canada (2), Chad (1), Chile (1), China (192), Colombia (12), Congo (3), Costa Rica (3), Côte d'Ivoire (9), Cuba (73), Dahomey (3), East Africa (2), East Indies (1), Ecuador (15), Egypt (4), El Salvador (1), Ethiopia (3), Fiji Islands (1), France (5), Ghana (7), Greece (4), Guinea (3), Haiti (3), Honduras (6), Hungary (12), India (450), Indonesia (7), Iran (3), Israel (448), Italy (4), Jamaica (12), Japan (101), Java (1), Kenya (8), Korea (4), Liberia (3), Libya (6), Madagascar (17), Malawi (109), Malaysia (6), Mexico (45), Morocco (13), Mozambique (82), Niger (1), Nigeria (384), Pakistan (24), Paraguay (155), Peru (170), Philippines (20), Portugal (30), Puerto Rico (2), Senegal (176), Sierra Leone (4), Republic of South Africa (193), Spain (11), Sudan (27), Surinam (4), Swaziland (1), Taiwan, (70), Tanzania (22), Thailand (45), Turkey (4), Uganda (40), Uruguay (57), USA (17), USSR (12), Venezuela (33), Vietnam (24), West Africa (5), West Indies (3), Zaire (14), Zambia (1) and Zimbabwe (1308)

A. batizogaea, 1 accession from Argentina

A. benthamii, 1 accession from Argentina and 1 from Brazil

A. burkartii, 1 accession from Uruguay

A. diogeni, 1 accession from Argentina and 3 accessions from Brazil

A. duranensis, 1 accession from Argentina

A. glabrata, 7 accessions from Argentina, 15 accession from Brazil and 1 accession from Paraguay

A. helodes, 9 accessions from Brazil

A. lutescens, 1 accession from Brazil

A. martii, 1 accession from Brazil

A. monticola, 5 accessions from Argentina and 1 accession from Brazil

A. paraguariensis, 2 accessions from Argentina and 1 accession from Brazil

A. pintoii, 1 accession from Argentina

A. pusilla, 3 accessions from Argentina

A. repens, 1 accession from Brazil

A. rigonii, 1 accession from Argentina and 1 from Bolivia

A. tuberosa, 2 accessions from Brazil

A. villosa, 15 accessions from Argentina (11), Brazil (1), Uruguay (3)

A. villosulicarpa, 9 accessions from Argentina (1), Brazil (7) and India (1)

Arachis spp. (unidentified), 239 from Argentina (33), Bolivia (71), Brazil (103), Paraguay (24) and USA (8)

Maintenance of collection: As seeds; medium-term seed storage at 4°C and 40% RH

Duplication of collection: NSSL, Fort Collins, USA; Texas A & M University, USA and ICRISAT, India

Availability: Available in limited quantity for research purposes only

Quarantine: Imports subject to United States Department of Agriculture - Animal and Plant Health Inspection Service (USDA-APHIS) inspections

Evaluation: Evaluation has been carried out by Arachis breeder: at the State Agricultural Experiment Stations and USDA-ARS plant scientists.

Documentation: Partial and computerized. Print-outs are available. For further information see Hammons, R.O. (1982) Disease resistant groundnut released. FAO/IBPGR Pl. Genet. Resources Newsl. 51: 12-13

UNITED STATES OF AMERICA

North Carolina State University  
Raleigh, North Carolina 27695

Telephone: (919) 737 32 81  
Telex: 9100000740NCP UQ  
Cable:

Curator/person in charge: H.T. Stalker (Arachis spp.) / J.C. Wynne (A. hypogaea)

UNITED STATES OF AMERICA (cont.)

ARACHIS

- Details of collection: Arachis hypogaea, 3524 total accessions, including from Argentina (132), Australia (3), Bolivia (54), Brazil (303), PR China (20), Costa Rica (2), Ecuador (1), Ghana (9), India (41), Iran (9), Israel (7), Italy (2), Japan (18), Liberia (2), Malaysia (8), Mexico (6), Paraguay (266), Peru (219), Philippines (1), Puerto Rico (1), Senegal (4), Sierra Leone (1), Rep. of South Africa (128), Spain (2), Sudan (16), Taiwan (1), Tanzania (23), Thailand (42), Turkey (3), Uruguay (33), USA (breeding lines and mutants) (1590), USSR (1), Zaire (15) and Zimbabwe (561)  
Arachis spp., 264 accessions from Argentina (42), Brazil (127), Bolivia (46), Paraguay (48) and Uruguay (1)
- Maintenance of collection: A. hypogaea: 250 seeds maintained in freezers and regenerated at ca. 10 year cycle  
Arachis spp.: as plants, seeds in freezers and propagated annually
- Duplication of collection: ICRISAT, Hyderabad, India; USDA Plant Introduction Station, Georgia; USDA, Stillwater, Oklahoma and Texas A&M University, Texas, USA
- Availability: Available in limited quantity and for research purposes only
- Quarantine: Export/import of material through quarantine procedures only
- Evaluation: In progress with emphasis on cytogenetic and morphological characteristics, seed storage proteins and disease resistance
- Documentation: A. hypogaea: Catalogue available. See Ressler, P.M. et al., 1980. Catalogue of cultivated peanut seeds available at the Peanut Research Laboratory North Carolina State University. Dep. of Crop Sciences, N. C. State Univ. Res. Rept. N° 75  
Arachis spp.: Computerized and complete for passport data

UNITED STATES OF AMERICA

|   |            |                 |
|---|------------|-----------------|
| Plant Science & Water Conservation Laboratory | Telephone: | (405) 624 41 24 |
| Southern Plains Area                          | Telex:     |                 |
| USDA-ARS                                      | Cable:     |                 |
| 1301 N. Western Street                        | Telefax:   | (405) 372 13 98 |
| Stillwater, Oklahoma 74075                    |            |                 |

Curator/person in charge: D.J. Banks

- Details of collection: Arachis batizocoi, 2 accessions from Bolivia  
A. batizocoi, 1 accession from Argentina  
A. benthamii, 1 accession from Brazil  
A. burkartii, 1 accession from Uruguay  
A. diogeni, 2 accessions from Brazil  
A. duranensis, numerous accessions from Argentina and Bolivia  
A. glabrata, numerous accessions from Brazil, Paraguay and Uruguay  
A. guaranitica, 1 accession from Paraguay  
A. hagenbeckii, numerous accessions from Argentina, Brazil and Paraguay  
A. helodes, 2 accessions from Brazil  
A. lutescens, 1 accession from Brazil  
A. macrocarpa, 1 accession from Brazil  
A. monticola, 1 accession from Argentina  
A. paraguayensis, numerous accessions from Paraguay  
A. pintoi, 1 accession from Brazil  
A. pusilla, 1 accession from Brazil  
A. regonii, 1 accession from Bolivia  
A. repens, 2 accessions from Brazil  
A. tuberosa, 1 accession from Brazil  
A. villosa, 2 accessions from Argentina  
A. villosulcarpa, 1 accession from Brazil

ARACHIS

Maintenance of collection: Potted, vegetative (clonal) materials of various wild species are maintained under greenhouse conditions (approx. 20° C night, 28° C day temp.)

Duplication of collection: In greenhouse at Stephenville, Texas. Selected duplicates are maintained in the field at Weslaco, Texas and Brooksville, Florida. Some duplicates at Experiment, Georgia

Availability: Available in limited quantity from Experiment, Georgia, USA

Quarantine: Import seeds must go through the USDA Plant Inspection Station

Evaluation: Under continuous, but limited investigation

Documentation: Passport data available (for material collected since 1976)

UNITED STATES OF AMERICA

Texas A & M University  
College Station, Texas 77843

Telephone: (409) 845 21 51  
Telex:  
Cable:

Curator/person in charge: N.P. Clarke / C.E. Simpson

Details of collection: Arachis spp., total 1667 accessions including Arachis hypogaea

|             | <u>Number of collections</u> |             |
|-------------|------------------------------|-------------|
|             | <u>Cultivated</u>            | <u>Wild</u> |
| Argentina   | 22                           | 37          |
| Bolivia     | 367                          | 76          |
| Brazil      | 340                          | 173         |
| Ecuador     | 53                           | -           |
| Paraguay    | 483                          | 21          |
| <u>Peru</u> | <u>95</u>                    | <u>-</u>    |
| Total       | 1360                         | 307         |

Wild species:

A. batizocoi  
A. burkartii  
A. cardenasii  
A. correntina  
A. diogeni  
A. glabrata  
A. helodes  
A. hypogaea  
A. marginata  
A. lutescens  
A. monticola  
A. prostrata  
A. pusilla  
A. sylvestris

Other Arachis spp.

This collection was assembled by an IBPGR funded project involving 17 expeditions to South American countries. Duplicate samples have been left with the national programmes of each country listed

Maintenance of collection: No information

Duplication of collection: ICRISAT, India and USDA Plant Introduction Station, Experiment, Georgia, USA

UNITED STATES OF AMERICA (cont.)

ARACHIS

|                |  |
|----------------|--|
| Availability:  | Freely available from ICRISAT, India where the South American collection of 252 samples of wild <u>Arachis</u> spp. and 667 accessions of primitive landraces are duplicated or USDA Plant Introduction Station, Experiment, Georgia, USA  |
| Quarantine:    | Export/import of material through quarantine procedures only   |
| Evaluation:    | In progress  |
| Documentation: | Computerized and complete for passport data. Catalogue of passport data of this collection are available. See C.E. Simpson and D.L. Higgins . 1984. <u>Catalogue of Arachis germplasm collections in South America, 1976-1983</u> . The Texas A&M University, USA and IBPGR, Rome; and C.E. Simpson, E.R. Howard, D.L. Higgins and G.D. Thomas 1986. <u>Catalogue of Minimum Descriptors of Arachis hypogaea L. Germplasm Collections From South America, 1977-82</u> . The Texas A&M University, USA and Report of missions in South America (AGPG:IBPGR/85/79) |

VENEZUELA

Centro Nacional de Investigaciones  
Agropecuarias (CFNIAP)  
Apartado 4653  
Maracay 2101

Telephone:  
Telex: 2101 Maracay  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | B. P. Mazzani  |
| Details of collection:     | <u>Arachis hypogaea</u> , 587 cultivars from Africa (35), America (477), Asia (18), Australia (4), Europe (46) and 7 of unknown origin |
| Maintenance of collection: | As seeds: short-term seed storage at 7° to 10°C, ambient RH, in plastic containers of 0.5kg capacity                                   |
| Duplication of collection: | No information   |
| Availability:              | Available  |
| Quarantine:                | No known restrictions  |
| Evaluation:                | Evaluated in 1985-86 for 48 characters as per IBPGR descriptor list  |
| Documentation:             | Computerized using dBase III+  |

*Cajanus, Cicer and Lens*



AFGHANISTAN

CAJANUS, CICER & LENS

Crop Germplasm Unit  
Crop Improvement Division  
Plant Research and Soil Science Department  
Durul Aman Agriculture Research Station  
Ministry of Agriculture, Kabul

Telephone:  
Telex:  
Cable:

Curator/person in charge: M. A. Rashid

Details of collection: Cicer arietinum, 312 accessions

Maintenance of collection: As seeds: medium-term seed storage at 2°C and 35 to 40% RH

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

AUSTRALIA

Division of Plant Industry  
Commonwealth Scientific & Industrial Research  
Organization (CSIRO)  
G.P.O. Box 1600  
Canberra City, T 2601

Telephone: (062) 46 49 11  
Telex: 62351 PICAN  
Cable: PLANTIND CANBERRA

Curator/person in charge: R. Pullen

Details of collection: Cicer arietinum, 31 accessions  
Lens culinaris, 17 accessions

Maintenance of collection: As seeds: medium-term seed storage at 2°C

Duplication of collection: Not duplicated

Availability: Available in limited quantity for research purposes only

Quarantine: Imported material must pass through quarantine

Evaluation: No evaluation data is available

Documentation: Partial and manual

AUSTRALIA

Australian Temperate Field Crops Collection  
Victorian Crops Research Institute  
Private Bag 260  
Horsham, Victoria 3400

Telephone: (053) 82 31 41 / 82 20 63  
Telex: 55880 AA CRIHOR  
Cable:

Curator/person in charge: A. McIntyre

Details of collection: Cicer arietinum  
Lens culinaris

CAJANUS, CICER & LENS

|                            |   |
|----------------------------|---|
| Maintenance of collection: | As seeds of populations. Long-term seed storage at -18°C and short-term seed storage at 2°C |
| Duplication of collection: | No information  |
| Availability:              | Freely available  |
| Quarantine:                | No information  |
| Evaluation:                | No information  |
| Documentation:             | Computerized  |

NB. This is a new facility and the collections are in the process of being assembled

BANGLADESH

Bangladesh Agricultural Research Institute (BARI)  
G.P.O. Box 2235  
Joydebpur, Gazipur  
Dhaka

Telephone: 391270 / 390241 / 390231  
Telex:  
Cable: RESAGRI

Curator/person in charge: M. H. Mondal

Details of collection:

Cajanus cajan, 14 cultivars from India and USA

Cicer arietinum, 666 cultivars and breeders lines from Ethiopia, India, Pakistan and USA

Lens culinaris, 798 landraces, cultivars and breeders' lines from Bangladesh (210), Chile (1), Egypt (27), Ethiopia (77), India (382), Nepal (2), Pakistan (40), Sweden (1), Turkey (3), USSR (1), Yemen (1) and unidentified (53)

|                            |  |
|----------------------------|--|
| Maintenance of collection: | As seeds: long-term seed storage at -10°C, in deep-freezers  |
| Duplication of collection: | No information   |
| Availability:              | Freely available   |
| Quarantine:                | Bangladesh quarantine regulations must be followed   |
| Evaluation:                | In progress; in batches. Observations on the following characters are recorded: polymorphism for seed colour, seed shape, stem colour, flower colour, pod shape, and pod colour. Although observations on several quantitative characters have been recorded, the collections have been grouped according to sample means for pod length, number of pods/plant, seeds/pod, shelling percentage, 100-seed weight, seed yield/plant, and root efficiency. The material has been screened for resistance to diseases like foot rot ( <u>Sclerotium</u> spp.) and false rust |
| Documentation:             | Manual. Computerization is due to commence   |

BULGARIA

Institute of Plant Introduction and  
Genetic Resources "K. Malkov"  
District of Plovdiv, BG-4122 Sadovo

Telephone: 22 21 / 22 51 / 22 52  
Telex: 44444 ZOS BG  
Cable:

Curator/person in charge: A. Katsarov

BULGARIA (cont.)

CAJANUS, CICER & LENS

|                            |  |
|----------------------------|--|
| Details of collection:     | <u>Cicer arietinum</u> , 7 landraces<br><u>Lens culinaris</u> , 4 landraces                                |
| Maintenance of collection: | As seeds: long-term seed storage at -18°C, in glass containers. Short-term seed storage at 10°C and 50% RH |
| Duplication of collection: | No information   |
| Quarantine:                | No information   |
| Evaluation:                | No information   |
| Documentation:             | No information   |

CANADA

Crop Science Department  
University of Saskatchewan  
Saskatoon, Saskatchewan S7N 0W0.

Telephone:  
Telex:  
Cable:

|                            |   |
|----------------------------|---|
| Curator/person in charge:  | A. E. Slinkard  |
| Details of collection:     | <u>Lens ervoides</u> , 46 accessions from Israel (21), Turkey (16) and USSR (9)<br><u>L. nigricans</u> , 65 accessions from France (55) and Turkey (10)<br><u>L. orientalis</u> , 107 accessions from Cyprus (15), Israel (10), Iran (23), Turkey (54) and USSR (5)<br><u>Lens</u> spp., 218 wild |
| Maintenance of collection: | As seeds: in cold store   |
| Duplication of collection: | Duplicated at ICRISAT, India and ICARDA, Syria  |
| Availability:              | Freely available  |
| Quarantine:                | Imported material must adhere to Canadian quarantine regulations  |
| Evaluation:                | In progress   |
| Documentation:             | Computerized and partial. For further information see Sindhu, J. S. and Slinkard, A. E. (1983) Collecting lentils in Syria. FAO/IBPGR Pl. Genet. Resources Newsl. 55: 24-25   |

COLOMBIA

Centro Experimental Palmira  
Instituto Colombiano Agropecuario (ICA)  
Apartado Aéreo 233, Palmira Valle

Telephone: 281 70  
Telex:  
Cable: ICA

|                            |   |
|----------------------------|---|
| Curator/person in charge:  | G. Bastidas   |
| Details of collection:     | <u>Cajanus cajan</u> , 40 breeders' lines from IITA, Nigeria<br><u>Cicer arietinum</u> , 40 varieties from diverse countries<br><u>Lens culinaris</u> , 100 accessions from diverse sources |
| Maintenance of collection: | As seeds: short-term seed storage at 10° to 15°C and 60% to 75% RH, in plastic containers   |

CAJANUS, CICER & LENS

Duplication of collection: No information

Availability: Freely available

Quarantine: Import restrictions. Material may be imported with phytosanitary certificate and only if free from common mosaic virus

Evaluation: In progress

Documentation: Partial and manual

CYPRUS

Agricultural Research Institute (ARI)  
P.O. Box 2016  
Athalassa, Nicosia

Telephone: (02) 40 34 31  
Telex: 4660 MINAGRI  
Cable: ARI NICOSIA

Curator/person in charge: A. Della

Details of collection: Cicer arietinum, 28 primitive cultivars from Cyprus  
Lens culinaris, 19 primitive cultivars from Cyprus

Maintenance of collection. As seeds: medium-term seed storage at 4°C and 50% RH

Duplication of collection: Germplasm Institute, Bari, Italy and ICARDA, Aleppo, Syria

Availability: Freely available in limited quantity

Quarantine: Phytosanitary certificate is essential

Evaluation: Evaluation is due to commence

Documentation: Complete and computerized for passport and collection data. Partially complete for evaluation data

CZECHOSLOVAKIA

SLOVOSIVO  
Research Institute of Plant Production  
Bratislavská cesta, 122  
921 68 Piestany

Telephone: (838) 223 11  
Telex:  
Cable:

Curator/person in charge: M. Uzik

Details of collection: Lens culinaris, 148 landraces and commercial cultivars from 25 countries

Maintenance of collection: As seeds: short-term seed storage at ambient temperatures (active collection)

Duplication of collection: No information

Availability: Freely available  
Requests for material should be addressed to:  
Head, Department of Genetic Resources, Research Institute for Crop Production,  
16106 Praha 6-Ruzyne 507. Person in charge: I. Bares

Quarantine: No known restrictions

CZECHOSLOVAKIA (cont.)

CAJANUS, CICER & LENS

Evaluation: No information

Documentation: Partial and manual. Index Seminum is available. Other details in research reports edited by Research Institute of Plant Production, Department of Genetic Resources

ECUADOR

Instituto Nacional de Investigaciones  
Agropecuarias (INIAP)  
Estacion Experimental Santa Catalina  
Km. 18, Panamericana Sur  
Apartado 340  
Santa Catalina

Telephone: 317-035 or 317-115  
Telex: 2532 INIAP ED  
Cable:

Curator/person in charge: J. Acuna

Details of collection: Lens culinaris, 25 local landraces and 75 from other countries

Maintenance of collection: No information

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

ECUADOR

Instituto de Ciencias Naturales  
Universidad Central  
Apartado 633  
Quito

Telephone: 523-710  
Telex:  
Cable:

Curator/person in charge: A. Ortega

Details of collection: Lens culinaris, 295 commercial cultivars and improved lines from Ecuador, FRG, Hungary, Mexico, Spain and USSR

Maintenance of collection: As seeds: medium-term seed storage at 0° to 5°C, in plastic bags and aluminium foil containers

Duplication of collection: No information

Availability: Freely available in limited quantity

Quarantine: No known restrictions

Evaluation: Botanical and morphological data only

Documentation: Partial and manual. Computerization in progress

**ETHIOPIA**

**CAJANUS, CICE 3 & LENS**

Plant Genetic Resources Centre (PGRC)  
Institute of Agricultural Research  
P.O. Box 30726  
Addis Ababa

Telephone: 18 03 81  
Telex: 21361 GTZ ET  
Cable: GENEBANK, Addis Ababa

Curator/person in charge: M. Worede

Details of collection: Cajanus cajan, 24 primitive landraces from Ethiopia collected by PGRC

Cicer arietinum, 521 landraces from Ethiopia and 162 other accessions

Lens culinaris, 234 landraces from Ethiopia and 134 other accessions

Maintenance of collection: As seeds: long-term storage at -10°C with seeds dried to 4% to 7% moisture content. Medium-term seed storage at 4°C and 30% to 40% RH, in hermetically sealed aluminium foil bags. For more details see Krauss, A. (1983) ILCA Newsl. 4: 9-12

Duplication of collection: Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG

Availability: Freely available

Quarantine: Material must go through quarantine

Evaluation: In progress using IBPGR descriptor lists. For details see Engels, J.M.M. (1985) FAO/IBPGR Pl. Genet. Resources Newsl. 61: 13-18

Documentation: Computerized and in progress using HP 125 microcomputer. HP 3000 computer with database management system "MINISIS" belonging to ILCA is also being utilized. In future inter computer link-ups will be installed. For further information on collections see PGRC/E.ILCA Germplasm Newsl. 8, April 1985

**FEDERAL REPUBLIC OF GERMANY**

Institut für Pflanzenbau und Pflanzenzüchtung (FAL)  
Bundesallee, 50  
D-3300 Braunschweig

Telephone: (0531) 59 66 00 / 01  
Cable:  
Telex: LANDFORSCHUNG, Völktenrode

Curator/person in charge: M. Dambroth

Details of collection: Cicer arietinum: 26 accessions of unspecified type from Egypt (26), Italy (1), India (19), Iran (3), Morocco (1) and Spain (1); 71 population from Iran; and 17 wild types from Tunisia

Lens culinaris: 44 populations from Iran; 3 cultivars from France (2) and Spain (1); 32 other accessions from FRG(2), Spain (1), Tunisia (5) and Yemen (24)

Maintenance of collection: As seeds: long-term seed storage at -10°C and 4% to 8% moisture content, in airtight tins

Duplication of collection: Partially duplicated at PGRC, Addis Ababa, Ethiopia

Availability: Freely available in limited quantity

Quarantine: No known restrictions

Evaluation: Partial evaluation has been done

FEDERAL REPUBLIC OF GERMANY (cont.)

CAJANUS, CICER & LENS

Documentation: Computerized on Siemens AG7541. Print-outs and other information are available from L. Seidewitz, Institut für Pflanzenbau und Pflanzenzüchtung, Bundesallee 50, D-3300 Braunschweig, FRG

GERMAN DEMOCRATIC REPUBLIC

Zentralinstitut für Genetik und  
Kulturpflanzenforschung (ZIGüK)  
Corrensstrasse, 3  
DDR-4325 Gatersleben

Telephone: Gatersleben 50  
Telex: 42558 KUPFGA DDR  
Cable:

Curator/person in charge: Ch. Lehmann

Details of collection: Cicer arietinum, 21 accessions

Lens culinaris, 222 landraces and commercial cultivars from Mediterranean countries and Europe

Maintenance of collection: As seeds: long-term seed storage at -10°C, in sealed glass jars. Medium-term seed storage at 0°C and 30% RH

Duplication of collection: Partially duplicated at VIR, Leningrad, USSR

Availability: Available

Quarantine: No known restrictions

Evaluation: No information

Documentation: Complete and manual. Computerization in progress. Index Seminum is available

GHANA

Plant Introduction and Exploration Section  
Crops Research Institute  
P.O. Box 7  
Bunso

Telephone:  
Telex:  
Cable:

Curator/person in charge: S. O. Bennett-Lartey

Details of collection: Cajanus cajan, 154 landraces from Ghana

Maintenance of collection: As seeds: long-term seed storage at -24°C, in aluminium foil containers

Duplication of collection: University of Ghana, Legon, Accra

Availability: Freely available

Quarantine: Phytosanitary certificate required

Evaluation: Samples evaluated according to IBPGR descriptor lists

Documentation: Manual. Passport and characterization data are available

GREECE

CAJANUS, CICER & LENS

Fodder Crops and Pastures Institute  
Ministry of Agriculture  
Larissa

Telephone: (041) 23 97 11  
Telex:  
Cable:

Curator/person in charge:

L. Stylopoulos

Details of collection:

Cicer arietinum, 27 landraces and 418 old cultivars from Greece

Lens culinaris, 25 landraces and 253 cultivars

L. ervoides, wild

L. nigricans, wild

L. orientalis, wild

Maintenance of collection:

As seeds: long-term seed storage at -15° to -18°C, in airtight tin cans

Duplication of collection:

Partially duplicated at Greek Gene Bank, Thessaloniki

Availability:

Freely available to institutions on request or exchange basis

Quarantine:

Imported material must adhere to Greek quarantine regulations

Evaluation:

In progress

Documentation:

Computerized and partial

GREECE

Greek Gene Bank  
North Greek Agricultural Research Centre  
P.O. Box 105 14  
541 10 Thessaloniki

Telephone: (031) 47 15 44  
Telex:  
Cable:

Curator/person in charge:

A. Zamanis

Details of collection:

Cicer arietinum, 165

Lens culinaris, 117

All accessions are landraces collected in Greece

Maintenance of collection:

As seeds: long-term seed storage at -20°C, in airtight metal cans. Medium-term seed storage at 2°C and 30% RH, in aluminium foil packets

Duplication of collection:

No information

Availability:

Freely available on exchange basis

Quarantine:

A phytosanitary certificate is necessary for import and export

Evaluation:

Evaluation is being carried out using IBPGR descriptor lists

Documentation:

Complete and computerized on Apple II

HUNGARY

CAJANUS, CICER & LENS

Research Centre for Agrobotany  
Institute for Plant Production  
and Qualification (IPPQ)  
H-2766 Tápíószele

Telephone: Tápíószele 41  
Telex: 226981 AGBOT H  
Cable:

Curator/person in charge: A. L. Kiss / A. Szucs / I. Karsai

Details of collection: Cicer arietinum, 471 accessions

Lens culinaris, 547 accessions

Maintenance of collection: As seeds: long-term seed storage at -20°C with no RH control, in airtight jars.  
Medium-term seed storage at 0° to 4°C

Duplication of collection: No information

Availability: Freely available in limited quantity

Quarantine: Phytosanitary certificate required

Evaluation: Partial and in progress

Documentation: Partial and manual. Computerization in progress. Index Seminum is available on request

INDIA

Genetic Resources Unit  
International Crops Research Institute  
for the Semi-Arid Tropics (ICRISAT)  
Patancheru P.O.  
Andhra Pradesh 502 324

Telephone: Hyderabad 22 40 16  
Telex: 0152-203 or 0155-366  
Cable: ICRISAT, Hyderabad

Curator/person in charge: M. H. Mengesha

Details of collection: Cajanus cajan, total 10818 accessions from 48 countries but emphasis on India and East Africa. Collection includes primitive and spontaneous cultivars, landraces, commercial cultivars, breeders' lines etc. and also wild and spontaneous forms (46 species) belonging to 6 genera of sub-tribe Cajaninae mostly from Australia and India. Major donor institutes: APAU, Hyderabad; JNKVV, Jabalpur, India; IARI, New Delhi, India; Department of Primary Industries, Australia

Cicer arietinum, total 14361 accessions including 47 wild Cicer spp. Collection covers spontaneous mutants, landraces, commercial cultivars and genetic stocks from many countries. Major donor institutes: PAU, Ludhiana, India; HAU, Hissar, India; IARI, New Delhi, India; CSAUAT, Beirut, Lebanon; INIA, Spain; Chile and Mexico

Maintenance of collection: As seeds: medium-term seed storage at 4°C and 35% RH, in plastic containers

IBPGR designated base centre for Cajanus and C. arietinum germplasm

Duplication of collection: ICARDA, Aleppo, Syria and USDA, USA

Availability: Freely available in limited quantity (preferably limited to 100 seeds)

CAJANUS, CICER & LENS

- Quarantine:** Seeds sent to ICRISAT should be accompanied by a phytosanitary certificate from the country of origin and an import permit. The import permit from the Indian plant quarantine authorities can be arranged through ICRISAT provided the following details are sent, viz. nature of seeds, number of samples, weight of seeds and name of the consignor. Seeds must be despatched only after receipt of orange and green colour tags with the import permit number on them. The following regulations also apply for importation: imported seeds should be free from Ascochyta blight and this must be clearly stated on the phytosanitary certificate. No other restrictions for Cajanus germplasm. Advance notice of despatch should be sent to: Project Director, Central Plant Protection Training Institute (CPPTI), Rajendranagar, Hyderabad 500 030, Chief Plant Quarantine Officer B. K. Vanna, and the Director of Research, ICRISAT
- Evaluation:** In progress for 23 morpho-agronomic characters for Cicer and 45 characters for Cajanus
- Documentation:** Computerized but not yet complete for Cicer. Documentation on Cajanus collection partially computerized for 7 passport descriptors and 27 other morpho-agronomic characters. DEC VAX 11/780 computer (VMS system) is used. J. W. Estes is in charge of documentation. For further information see van der Maesen, L.J.G. (1979) Wild pigeonpea in Africa. FAO/IBPGR Pl. Genet. Resources Newsl. 40: 8-10. van der Maesen, L.J.G. and Pundir, R.P.S. (1984) Availability and use of wild Cicer germplasm. FAO/IBPGR Pl. Genet. Resources Newsl. 57: 19-24

INDIA

Indian Agricultural Research Institute (IARI)  
National Bureau of Plant Genetic Resources (NBPGR)  
Pusa Complex  
New Delhi 110 012

Telephone:  
Telex:  
Cable: GERMPLASM New Delhi

- Curator/person in charge:** R. G. Rana
- Details of collection:** Cajanus cajan, 537 accessions maintained at Regional Station, Akola  
Lens culinaris, 292 landraces and primitive cultivars mostly from India
- Maintenance of collection:** As seeds: long-term seed storage at -18°C, in aluminium foil packets
- Duplication of collection:** 336 accessions of Lens are duplicated at NBPGR Regional Station, Simla. 240 accessions of Cajanus are also duplicated at Regional Station, Trichur
- Availability:** Freely available
- Quarantine:** Imported germplasm should be accompanied by a phytosanitary certificate and an import permit. Applications for import permit should be addressed to: Plant Protection Adviser to the Government of India, Directorate of Plant Protection, Quarantine and Storage, N.H. IV, Faridabad 121 001, India
- Evaluation:** In progress for morpho-agronomic characters at various Regional Stations of NBPGR
- Documentation:** Manually operated data sheets. Progressively being computerized. Burroughs Corp. computer model B-4771 used (MCP 6.4 system). For further information on exploration and collections refer to Mehra, K.L. and Arora, R.K. (1982) Plant Genetic Resources of India, available from NBPGR

INDIA

CAJANUS, CICER & LENS

|   |  |
|---|--|
| Genetics Department<br>Indian Agricultural Research Institute (IARI)<br>Pusa Complex<br>New Delhi 110 012 | Telephone: 58 14 93<br>Telex:<br>Cable: KRISHIPUSA New Delhi   |
| Curator/person in charge:   | The Director   |
| Details of collection:  | <u>Cajanus cajan</u> , 1500 accessions<br><u>Cicer arietinum</u> , 2000 accessions<br><u>Lens culinaris</u> , 900 accessions<br>All accessions mainly landraces and primitive cultivars from India   |
| Maintenance of collection:  | As seeds: short-term seed storage at 10° to 12°C, in paper packets   |
| Duplication of collection:  | At NBPGR, New Delhi and other Regional Stations  |
| Availability:   | Freely available. Requests should be addressed to ICAR, Krishi Bhavan, Rajendra Prasad Road, New Delhi   |
| Quarantine:   | Imported germplasm should be accompanied by a phytosanitary certificate and an import permit. Applications for import permit should be addressed to: Plant Protection Adviser to the Government of India, Directorate of Plant Protection, Quarantine and Storage, N.H. IV, Faridabad 121 001, India |
| Evaluation:   | Evaluation is in progress for morpho-agronomic and resistance to pests and diseases  |
| Documentation:  | Manual   |
| <u>INDONESIA</u>  |  |
| National Biological Institute<br>P.O. Box 110<br>Bogor  | Telephone: (0251) 210 39<br>Telex:<br>Cable: DIRBIONAS Bogor   |
| Curator/person in charge:   | S. Sastrapradja  |
| Details of collection:  | <u>Cajanus cajan</u> , 200 accessions from several countries   |
| Maintenance of collection:  | As seeds: long-term seed storage at -18°C, in deep-freezers. Medium-term seed storage at 5°C and 50% RH. S. E. Pratignyo is in charge of storage   |
| Duplication of collection:  | No information   |
| Availability:   | Freely available   |
| Quarantine:   | No known restrictions  |
| Evaluation:   | In progress using IBPGR descriptor list  |
| Documentation:  | Manual. Computerization is due to commence   |

IRANCAJANUS, CICER & LENS

Seed and Plant Improvement Institute (SPII)  
Ministry of Agriculture and Rural Development  
Mard-Abad  
Karaj

Telephone:  
Telex:  
Cable:

- Curator/person in charge: Parviz Vojdani
- Details of collection: Cicer arietinum, 256 accessions  
Lens culinaris, 58 accessions
- Maintenance of collection: As seeds: long-term seed storage at -20°C, in airtight metal cans of about 500g capacity
- Duplication of collection: ICRISAT, Hyderabad, India for some samples. Other duplicates held at agricultural colleges of the Tehran University under warehouse conditions at present
- Availability: Freely available in limited quantity
- Quarantine: Import and export of seeds must adhere to Iranian quarantine rules
- Evaluation: Preliminary evaluation has been carried out on most of the samples. More detailed evaluation in progress
- Documentation: Partial and manual at present but computerization is due to commence with IBPGR's assistance

IRAQ

Genetic Resources Unit  
Ministry of Agriculture and Agrarian Reform  
Abu Ghraib  
Baghdad

Telephone:  
Telex:  
Cable:

- Curator/person in charge: A. T. Shiarif
- Details of collection: Cicer arietinum, 22 local landraces from Iraq
- Maintenance of collection: As seeds: medium-term seed storage at 5°C and 35% RH, in airtight metal cans
- Duplication of collection: No information
- Availability: Freely available
- Quarantine: No known restrictions
- Evaluation: No information
- Documentation: Partial and manual

ISRAEL

Israel Gene Bank for Agricultural Crops  
Volcani Centre  
P.O. Box 6  
50-250 Bet-Dagan

Telephone: (03) 98 04 58  
Telex: 341118 BXTV IL  
Cable:

- Curator/person in charge: M. Zur

ISRAEL (cont.)

CAJANUS, CICER & LENS

|                            |  |
|----------------------------|--|
| Details of collection:     | <u>Cajanus cajan</u> , 10 primitive cultivars from India, Côte d'Ivoire and Pakistan<br><br><u>Lens culinaris</u> , 250 landraces and commercial cultivars from Afghanistan, Greece, Italy, Jordan, Lebanon, Poland, Turkey and Yugoslavia |
| Maintenance of collection: | As seeds: long-term seed storage at -10°C, in aluminium containers   |
| Duplication of collection: | No information   |
| Availability:              | Freely available   |
| Quarantine:                | Phytosanitary certificate essential for import   |
| Evaluation:                | Most of the material has been evaluated  |
| Documentation:             | Partial and computerized   |

ISRAEL

Department of Field and Vegetables Crops  
Faculty of Agriculture  
Hebrew University of Jerusalem  
P.O. Box 12  
76100 Rehovot

Telephone: (08) 48 12 51  
Telex: 361931 HUAGR IL  
Cable:

|                            |   |
|----------------------------|---|
| Curator/person in charge:  | A. Dovrat   |
| Details of collection:     | <u>Lens culinaris</u> , 50 wild/weedy   |
| Maintenance of collection: | Short-term seed storage at ambient temperatures   |
| Duplication of collection: | No information  |
| Availability:              | No information  |
| Quarantine:                | No information  |
| Evaluation:                | Disease resistance, shelf life, linkage maps, yield, insect resistance, physiological genetics of stress conditions |
| Documentation:             | No information  |

ITALY

Istituto del Germoplasma  
Consiglio Nazionale delle Ricerche (CNR)  
Via G. Amendola 165/A  
I-70126 Bari

Telephone: (080) 58 34 63 / 58 34 00  
Telex: 810565 CNR/BA I  
Cable:

|                            |   |
|----------------------------|---|
| Curator/person in charge:  | P. Perrino  |
| Details of collection:     | <u>Cicer arietinum</u> , 231 accessions including 150 collected in Algeria and collections from other North African regions<br><br><u>Lens culinaris</u> , 255 accessions |
| Maintenance of collection: | As seeds: long-term seed storage at -10°C, in airtight metal cans with silica gel. Medium-term seed storage at 0°C and 40% RH, in aluminium foil containers               |

CAJANUS, CICER & LENS

Duplication of collection: Nordic Gene Bank, Alnarp, Sweden and at Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG. Algerian material also duplicated at Institut de Développement de Grandes Cultures, Algeria

Availability: Freely available

Quarantine: No known restrictions

Evaluation: Nearly all accessions were multiplied at Valenzano (near Bari) in 1984 as the quantity of seed had become low because of distribution and loss of viability

Documentation: Computerized and partial. IBM S/I (with EDX system) is used. Print-outs are available. G. Scippa is in charge of documentation

ITALY

Istituto di Agronomia Generale e  
Coltivazioni Erbacee  
Via Valdisavoia, 5, I-95123 Catania

Telephone: (95) 35 14 20 / 35 13 61  
Telex:  
Cable:

Curator/person in charge: S. Foti

Details of collection: Cicer arietinum, 40 landraces  
Lens culinaris, 15 landraces

Maintenance of collection: Cold store

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: Seed storage and evaluation of biological variability

Documentation: No information

ITALY

Istituto Sperimentale per l'Orticoltura  
Via Cavallegeri, 25  
I-84098 Pontecagnano (Salerno)

Telephone: (089) 38 12 52 / 38 12 93  
Telex:  
Cable:

Curator/person in charge: A. Ferraro

Details of collection: Cicer arietinum, 200 old cultivars

Maintenance of collection: Room with controlled temperature

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: Crop biology, physiology and protection. Genetics breeding, agronomical techniques of widespread horticultural species

Documentation: No information

ITALY

CAJANUS, CICER & LENS

Unità Agrobiotecnologie  
Ente Nazionale Energia Atomica (ENEA)  
P.O. Box 2400  
CRE Casaccia  
I-00100 Rome A.D.

Telephone: (06) 694 81  
Telex: 613296 ENEACA I  
Cable: CASACCIA ENEA

Curator/person in charge: F. Saccardo

Details of collection: Cicer arietinum, 200 accessions

Maintenance of collection: As seeds: long-term seed storage at -20°C and medium-term seed storage at 0°C

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: Disease resistance, short stature, quality, suitability for mechanical harvest and stress resistance

Documentation: No information

MEXICO

Unidad de Recursos Genéticos  
Instituto Nacional de Investigaciones Agrícolas (INIA)  
Insurgentes Sur 694, Col. del Valle  
Codigo Postal 03100  
Apartado Postal 6-882 y 6-883  
Mexico 6 D.F.

Telephone: 687 74 01  
Telex:  
Cable:

Curator/person in charge: F. Cardenas

Details of collection: Cicer arietinum 500 cultivars  
Lens culinaris, 200 cultivars  
All material collected in Mexico

Maintenance of collection: As seeds of populations: long-term seed storage at -2°C and 30% RH, in glass jars

Duplication of collection: Some accessions in CIAT, Cali, Colombia

Availability: Restrictions on exchange of commercial cultivars

Quarantine: No known restrictions

Evaluation: Nearly 70% of the accessions have been evaluated

Documentation: Partially computerized

MEXICO

Centro de Investigaciones Agrícolas del Bajío  
Instituto Nacional de Investigaciones Agrícolas (INIA)  
Apartado Postal 112  
Celaya, Gto

Telephone:  
Telex: 122231 CIUIME  
Cable:

Curator/person in charge: S. M. Hernandez

CAJANUS, CICER & LENS

|                            |  |
|----------------------------|--|
| Details of collection:     | <u>Cicer arietinum</u> , 299 local landraces<br><u>Lens culinaris</u> , 199 local landraces        |
| Maintenance of collection: | As seeds: medium-term seed storage at 0° to 5°C, in glass jars containing about 3000 to 5000 seeds |
| Duplication of collection: | No information   |
| Availability:              | Requests should be addressed to the Director, INIA   |
| Evaluation:                | Evaluation in progress   |
| Documentation:             | Computerization in progress  |

MOROCCO

Station Centrale des Plantes Fourragères  
Institut National de la Recherche Agronomique (INRA)  
P.O. Box 415  
Rabat

Telephone:  
Telex: 31702 DRA M  
Cable:

Curator/person in charge: B. Sakr

|                        |  |
|------------------------|--|
| Details of collection: | <u>Cajanus cajan</u> , 35 accessions donated by ICRISAT<br><u>Cicer arietinum</u> , total 294 accessions: from Afghanistan (1), Algeria (2), Egypt (3), Germany (7), India (13), Italy (5), Mexico (1), Morocco (15), Romania (1), Spain (1), Turkey (2), USA (18) and USSR (9); crossings (7), mutations (8) and donated by FAO (2); selected variants from local entries (83)<br><u>Lens culinaris</u> , total 175 accessions from Afghanistan (7), Bulgaria (4), Chile (2), Columbia, (1) Denmark (1), FRG (4), France (2), Greece (7), Hungary (7), Italy (1), Morocco (78), Poland (1), Romania (3), Spain (2), Tunisia (5), USSR (9) and Yugoslavia (2); crossings (21); selected variants from local entries (18) |
|------------------------|--|

|                            |  |
|----------------------------|--|
| Maintenance of collection: | As seeds: no special storage provided at present but deep-freezers with IBPGR assistance to be installed                 |
| Duplication of collection: | Some accessions of <u>Cajanus</u> , <u>Cicer</u> and <u>Lens</u> duplicated at ICARDA, Aleppo, Syria and at ACSAD, Syria |
| Quarantine:                | No known restrictions  |
| Evaluation:                | Evaluated for agronomical and phenological characters  |
| Documentation:             | Partial and manual   |

NIGERIA

International Institute of Tropical Agriculture (IITA)  
Oyo Road  
P.M.B. 5320  
Ibadan

Telephone: 41 32 44  
Telex: 31417 TROPIB NG  
Cable: TROPFOUND Ikeja

Curator/person in charge: N. Q. Ng

|                        |                                      |
|------------------------|--------------------------------------|
| Details of collection: | <u>Cajanus cajan</u> , 10 accessions |
|------------------------|--------------------------------------|

NIGERIA (cont.)

CAJANUS, CICER & LENS

|                            |   |
|----------------------------|---|
| Maintenance of collection: | As seeds: long-term seed storage at -20°C, in aluminium cans. Short-term seed storage at 18°C (in future at 5°C) and 20% to 25% RH, in plastic jars |
| Duplication of collection: | No information  |
| Availability:              | Freely available  |
| Quarantine:                | Imported material must adhere to Nigerian quarantine regulations  |
| Documentation:             | No information  |

PAKISTAN

|   |                                |  |
|---|--------------------------------|--|
| Genetic Resources Laboratory<br>National Agricultural Research Centre (NARC)<br>Pakistan Agricultural Research Council (PARC)<br>P.O. National Health Laboratories<br>Islamabad | Telephone:<br>Telex:<br>Cable: | 5604 PARK PK<br>AGRESCOUNCIL ISLAMABAD<br>PAKISTAN |
|---|--------------------------------|--|

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | Rashid Anwar   |
| Details of collection:     | <u>Cicer arietinum</u> , 2584 accessions<br><br><u>Lens culinaris</u> , 640 accessions<br>Collection includes material collected from different geographical/ecological regions of Pakistan                                |
| Maintenance of collection: | As seeds: long-term seed storage at -1°C and 45% RH, in tin cans and aluminium foil bags   |
| Duplication of collection: | No information   |
| Availability:              | Freely available in limited quantity   |
| Quarantine:                | Phytosanitary certificate essential. Small number of samples only  |
| Evaluation:                | In progress  |
| Documentation:             | Complete typing computerized on Apple II plus microcomputers. For further information see Ahmad, Z. <u>et al.</u> (1982) Collecting chickpea and lentils in Pakistan. <u>FAO/IBPGR Pl. Genet. Resources Newsl.</u> 52: 2-4 |

PHILIPPINES

|   |                                |                                    |
|---|--------------------------------|------------------------------------|
| National Plant Genetic Resources Laboratory (NPGRL)<br>Institute of Plant Breeding (IPB)<br>College of Agriculture<br>University of the Philippines at Los Baños (UPLB)<br>College, Laguna 3720 | Telephone:<br>Telex:<br>Cable: | 22 98<br><br>NPGRL IPB UPLB Laguna |
|---|--------------------------------|------------------------------------|

Curator/person in charge: N. C. Altoveros

Details of collection:

Cajanus cajan, 433 accessions from Australia, Indonesia, Nigeria and Philippines

Cicer arietinum, 404 accessions from Afghanistan, Cyprus, Ethiopia, Greece, India, Iran, Israel, Italy, Mexico, Morocco, Pakistan, Portugal, Spain, Turkey, USA, USSR and Yugoslavia  
Material includes local landraces and primitive cultivars

CAJANUS, CICER & LENS

|                            |  |
|----------------------------|--|
| Maintenance of collection: | As seeds: long-term seed storage at -20°C (45m <sup>3</sup> ), medium-term seed storage at 4° to 5°C and 60% RH, active collection at 0°C, in airtight glass containers and tin cans. Seed moisture content below 6% |
| Duplication of collection: | No information   |
| Availability:              | Freely available   |
| Quarantine:                | Phytosanitary certificate and import permit required   |
| Evaluation:                | In progress. Agronomic and physiological studies have been initiated   |
| Documentation:             | Partial and computerized. IBM 370 model 135 (OS/VS1 system is used). Passport data are available. N. G. Mamicpic is in charge of documentation   |

POLAND

Pisum Gene Bank  
Plant Breeding Station  
Wiatrowo  
62-100 Wagrowiec

Telephone: Wagrowiec 210 01  
Telex:  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | A. Czerwinska  |
| Details of collection:     | <u>Lens culinaris</u> , 216 accessions from Afghanistan, Australia, Bulgaria, Chile, Greece, Guatemala, Egypt, GDR, Hungary, France, Iran, Italy, Mexico, Morocco, Pakistan, Peru, Syria, Spain, Turkey, USSR and Yugoslavia |
| Maintenance of collection: | As seeds: of single plants and populations in long-term seed storage at -10°C, in deep-freezers  |
| Duplication of collection: | National Department of Plant Genetic Resources at the Plant Breeding and Acclimatization Institute (IHAR), Radzikow  |
| Availability:              | Freely available   |
| Quarantine:                | No restrictions for export but imported material must have phytosanitary certificate   |
| Evaluation:                | Taxonomic classification, 40 metrical values, description of genotype/accession as per Pisum Genetics Association rules, photo documentation, literature, and linkage studies of new genes has been done                     |
| Documentation:             | Partial and computerized at the Information Centre, National Department of Plant Genetic Resources, Plant Breeding and Acclimatization Institute (IHAR), Radzikow  |

PORTUGAL

Núcleo de Melhoramento de Milho (NUMI)  
Instituto Nacional de Investigação Agrária (INIA)  
Quinta dos Peões - Gualtar  
P-4700 Braga

Telephone: (53) 245 51  
Telex: 737 28  
Cable: 33506 NUMIP

|                           |   |
|---------------------------|---|
| Curator/person in charge: | R. M. Farias  |
| Details of collection:    | <u>Cicer arietinum</u> , 34 landraces from Portugal |

PORTUGAL (cont.)

CAJANUS, CICER & LENS

Maintenance of collection: As seeds: long-term seed storage at -18°C. Medium-term seed storage at 0°C and -2°C and 45% RH

Duplication of collection: Istituto del Germoplasma, Bari, Italy

Availability: Freely available in limited quantity

Quarantine: No restrictions for export but imported material must have phytosanitary certificate

Evaluation: None

Documentation: Computerized using IBM/PC

PORTUGAL

Estação Nacional de Melhoramento de Plantas  
 Instituto Nacional de Investigaçao Agrária (INIA)  
 P-7351 Elvas Codex

Telephone: (068) 628 44/628 47  
 Telex: 40189 ENMP P  
 Cable: .  
 Telefax: (068) 692 95

Curator/person in charge: M. Barradas

Details of collection: Cicer arietinum, 202 accessions  
Lens culinaris, 25 accessions  
 All from Portugal

Maintenance of collection: As seeds: short-term seed storage at ambient temperatures

Duplication of collection: Not duplicated

Availability: Freely available in limited quantity

Quarantine: No restrictions for export, imported material must have phytosanitary cert.

Evaluation: None

Documentation: Manual

PORTUGAL

Secção de Genética  
 Estação Agronómica Nacional  
 Instituto Nacional de Investigaçao Agrária (INIA)  
 P-2780 Oeiras

Telephone: (1) 443 04 42  
 Telex: 63698 EAN P  
 Cable:

Curator/person in charge: M. Mota

Details of collection: Cicer arietinum, 112 landraces from Portugal (95) and Spain (17)  
Lens culinaris, 15 landraces from Portugal (3) and Spain (12)

Maintenance of collection: As seeds: long-term seed storage at -18°C, in deep-freezers

Duplication of collection: Banco de Germoplasma, INIA, Spain

Availability: Freely available in limited quantity

Quarantine: No restrictions for export; imported material must have phytosanitary cert.

CAJANUS, CICER & LENS

Evaluation: None  
 Documentation: Passport data computerized using Apple II microcomputer. Print-outs available

SENEGAL

Maraîchage et Amélioration des Légumes  
 Centre pour le Développement de l'Horticulture  
 Institut Sénégalais de Recherches Agricoles (ISRA)  
 Boite Postal 154  
 Dakar

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: Ndiaga Cisse  
 Details of collection: Cajanus indicus, 7 cultivars from Cape Verde and 22 accessions from India  
Cicer arietinum, 10 cultivars from India  
 Maintenance of collection: As seeds: of populations in short-term seed storage at 10°C (active collection)  
 Duplication of collection: IITA, Ibadan, Nigeria and ICRISAT, Hyderabad, India  
 Availability: Freely available  
 Quarantine: No known restrictions  
 Evaluation: The collection has been evaluated for morphological, physiological and yield characters and resistance to bruchides  
 Documentation: Manual and partial

SPAIN

Banco de Germoplasma  
 Instituto Nacional de Investigaciones Agrárias (INIA)  
 Finca "El Encin"  
 P.O. Box 127  
 Alcala de Henares, Madrid

Telephone: (1) 889 69 69 / 70  
 Telex: 48989 INIA E  
 Cable:

Curator/person in charge: The Director  
 Details of collection: Cicer arietinum, 170 landraces from Portugal (76), Spain (77) and USSR (17)  
Lens culinaris, 128 landraces from Greece (6), Portugal (4) and Spain (118);  
 and 109 accessions from FRG (1), GDR (108)  
 Maintenance of collection: As seeds: long-term seed storage at -18°C, medium-term seed storage at -4°C.  
 Seed moisture content of 5% to 7%, in glass vial containers  
 Duplication of collection: Gatersleben, GDR; Istituto del Germoplasma, Bari, Italy; Cuzco, Peru and Oeiras, Portugal  
 Availability: Freely available on exchange basis  
 Quarantine: No known restrictions  
 Evaluation: Partial morpho-agronomic evaluation

SPAIN (cont.)

CAJANUS, CICER & LENS

Documentation: Computerized for passport data. In progress for evaluation data. For further information see Alaman Castro, M.C. *et al.* (1983) La recogida de germoplasma por el nordeste de España. FAO/IBPGR Pl. Genet. Resources Newsl. 53: 41-43

SPAIN

Centro de Investigación y Desarrollo  
Agrario de Córdoba (DGIEA)  
Junta de Andalucía  
P.O. Box 240  
Córdoba

Telephone: (57) 29 38 33  
Telex: 76686 INIA E  
Cable:

Curator/person in charge: J. F. Martínez

Details of collection: Cicer arietinum, 2184 landraces

Maintenance of collection: Room with controlled temperature

Duplication of collection: No information

Availability: Freely available

Quarantine: No information

Evaluation: Disease resistance and protein quality

Documentation: No information

SYRIA

International Centre for Agricultural  
Research in the Dry Areas (ICARDA)  
P.O. Box 5466  
Aleppo

Telephone: 50465 or 21750 or 52113  
Telex: 331206 SY or 331208 SY  
Cable: ICARDA, Aleppo

Curator/person in charge: J. Valkaum

Details of collection: Cicer arietinum, 5585 landraces, cultivars, and breeding lines from Afghanistan (868), Algeria (19), Bulgaria (14), Chile (337), Colombia (2), Cyprus (35), Czechoslovakia (6), Ecuador (1), Egypt (50), Ethiopia (29), France (3), Greece (12), India (243), Iran (1231), Iraq (30), Italy (23), Jordan (128), Lebanon (26), Malawi (1), Mexico (73), Morocco (88), Nepal (2), Pakistan (24), Palestine (33), Peru (4), Portugal (14), Spain (319), Sudan (7), Syria (1148), Tunisia (245), Turkey (367), USA (44), USSR (58), Yugoslavia (2) and unknown origin (79)  
ICARDA inherited 30 samples of seven wild Cicer spp. from the ALAD programme in Lebanon: C. bijugum, C. cuneatum, C. judaicum, C. montbretii, C. pinnatifidum, C. reticulatum, and C. yamashitae. They were screened for resistance to Ascochyta blight and three species were found to be highly resistant, viz. C. pinnatifidum, C. montbretii and C. judaicum

Lens culinaris, 6086 landraces, cultivars and breeding material from Afghanistan (127), Albania (2), Algeria (14), Argentina (6), Austria (1), Bangladesh (36), Belgium (2), Bulgaria (23), Canada (2), Chile (538), China (1), Colombia (8), Costa Rica (2), Cyprus (28), Czechoslovakia (21), Egypt (90), Ethiopia (378), FRG (3), France (8), GDR (23), Greece (107), Guatemala (2)

CAJANUS, CICER & LENS

- Details of collection: (cont.) Hungary (27), India (1905), Iran (915), Iraq (24), Italy (11), Japan (1), Jordan (319), Lebanon (76), Libya (1), Mexico (45), Morocco (30), Nepal (12), Netherlands (1), Norway (1), Pakistan (42), Palestine (1), Peru (3), Poland (5), Portugal (4), Romania (1), Somalia (2), Spain (192), Sudan (3), Syria (454), Tunisia (11), Turkey (339), UK (1), USA (20), USSR (102), Uruguay (1), North Yemen (37), Yugoslavia (27) and unknown (51)  
Lens ervoides  
L. nigricans  
L. orientalis  
Lens spp., 107 wild
- Maintenance of collection: As seed populations: medium-term seed storage at 4° to 6°C and 12% to 14% RH (293 m<sup>-3</sup>), in cotton bags
- Duplication of collection: Cicer germplasm duplicated at ICRISAT, Hyderabad, India. Lens germplasm duplicated at IARI, New Delhi, India and WRPIS, Pullman, Washington, USA
- Availability: Freely available
- Quarantine: No known restrictions but phytosanitary certificate required
- Evaluation: Evaluation has been carried out for the following characters: Cicer arietinum (Kabuli chickpea): flowering and floral characteristics: days to 50% flowering, flowering duration, flower colour, days to maturity; plant height; canopy width; branching: primary branches per plant, secondary branches per plant, tertiary branches/plant; growth habit; leaf size; pod characters: pods/plant, number of seeds/pod, pod dehiscence; yield: biological yield, seed yield, harvest index; seed characteristics: 100-seed weight, seed colour and shape, seed surface roughness, protein content; susceptibility to cold at low, medium and high altitude; susceptibility to frost at seedling stage and at pre-flowering stage; susceptibility to iron deficiency and ascochyta blight. For further information see Singh K.B. and Malhotra R.S. (1984) Collection and evaluation of chickpea genetic resources. In Genetic Resources and Their exploitation - chickpea, faba beans and lentils (Eds. J.R. Witcombe and W. Erskine) Martinus Nijhoff / Dr. W. Junk Publishers
- Lens culinaris (Lentils): Phenological characters: time to flowering and maturity; plant height, height of the lowest pod; yield characters: biological, seed and straw yield, harvest index; seed characters: 100-seed weight, number of seeds/pod, ground colour of testa, pattern on testa and colour, cotyledon colour and protein content; susceptibility to cold; susceptibility to Orobanche crenata and other pests and diseases. For further information see Solli M. and Erskine W. Genetic resources of lentils. In Genetic resources and their exploitation - chickpea, faba beans and lentils (Eds. J.R., Witcombe and W. Erskine) Martinus Nijhoff / Dr. W. Junk Publishers
- Documentation: Complete and computerized on VAX 11/750 for passport and evaluation data. Kabuli Chickpea Catalogue by Singh, K.B., Malhotra, R.S. & Witcombe, J.R. and Lentil Germplasm Catalogue by Erskine, W. & Witcombe, J.R. available from ICARDA for detailed information on collection

SYRIA

CAJANUS, CICER & LENS

Genetic Resources Unit (GRU)  
Agriculture Research Directorate  
P.O. Box 113  
Douma, Damascus

Telephone: 75 04 01  
Telex:  
Cable:

Curator/person in charge: K. S. Obari

Details of collection: Cicer arietinum, 56 landraces and commercial cultivars from Syria

Lens culinaris, 112 landraces and commercial cultivars from Syria and some donated by FAO

Maintenance of collection: As seed populations: medium-term seed storage at 4°C and 80% RH, in airtight metal cans of 600g capacity

Duplication of collection: ICRIAT, Hyderabad, India

Availability: Only some samples are available

Quarantine: Phytosanitary certificate required for import of seeds

Evaluation: No evaluation work has been done

Documentation: Complete and manual

TURKEY

Plant Genetic Resources Research Institute  
Aegean Agricultural Research Institute (AARI)  
P.O. Box 9  
35661 Menemen - Izmir

Telephone: (542) 115 52  
Telex: 51293 AARI TR  
Cable:  
Telefax: (542) 12792

Curator/person in charge: A. E. Firat

Details of collection: Cicer anatolicum, 2 accessions  
C. arietinum, 17 botanical species, 464 landraces and primitive cultivars.  
Wild Cicer spp.:  
C. bijugum, 1 accession  
C. echinospermum, 1 accession  
C. reticulatum, 2 accessions  
Cicer spp., 7 unidentified species

Lens culinaris, 266 landraces  
Material from different regions and localities of Turkey, collected by AARI and other missions

Maintenance of collection: As seeds: long-term seed storage at -15°C, in airtight tin cans. Medium-term seed storage at 0°C. Pre-storage treatment includes reduction of moisture content to 6% to 8% before storage in polyethylene covered tin cans. RH is not controlled in the cold store. Size of containers: 170cm<sup>3</sup> in volume for long-term seed storage and 430cm<sup>3</sup> for medium-term seed storage

Duplication of collection: Some accessions are held at CIAT, Cali, Colombia and at the Department of Applied Biology, University of Cambridge, UK

Availability: Freely available. Accessions which need multiplication and regeneration are not available for exchange

Quarantine: All restrictions for import mentioned in the order of Government published in State paper of 18.10.1976 No. 15738 must be observed:

CAJANUS, CICER & LENS

- Quarantine: (cont.) "Diseases, pests and plants the importation of which is prohibited into the country" Turkish Republic Ministry of Food, Agriculture and Animal Husbandry
- Evaluation: Own descriptor lists used for evaluation. Characterization and/or evaluation studies for certain diseases are being carried out on part of the Lens culinaris and Cicer arietinum. Some accessions have been evaluated for resistance to ascochyta blight. Refer to the following: Acikgöz, N. (1982) Studies on determination of sources and inheritance of resistance to ascochyta blight of chickpea Ascochyta rabiei (Pass.) Labr. Ph.D. Thesis, Aegean University, Turkey
- Documentation: The documentation system at ARARI is partly computerized on IBM US-4341 (MTR 3.20 program). The data base with the most important descriptors has already been created for the 1970-80s collections and an Index Seminum has been issued

UGANDA

- Department of Agriculture  
Serere Research Station  
P.O. Soroti
- Telephone:  
Telex:  
Cable:
- Curator/person in charge: T. E. Eneetai-Areke
- Details of collection: Cajanus cajan, 200 landraces and commercial cultivars from eastern and northern regions of Uganda
- Maintenance of collection: As seeds; short-term seed storage at ambient temperatures, in 0.5kg capacity paper bags
- Duplication of collection: No information
- Availability: Freely available
- Quarantine: Phytosanitary certificate and import permit essential
- Evaluation: Evaluated for diseases and pest resistance, high grain yield potential, suitability of use as spinach, early maturity period and determinate growth
- Documentation: Manual and partial

UNION OF THE SOVIET SOCIALIST REPUBLICS

- N. I. Vavilov All-Union Scientific Research Institute  
of Plant Industry (VIR)  
42-44, Herzen Street  
190000 Leningrad
- Telephone: (314) 22 34 / 48 48  
Telex:  
Cable:
- Curator/person in charge: V. I. Krivchenko
- Details of collection: Cicer arietinum subsp. asiaticum var. turcestanicum, 2 accessions from USSR  
C. arietinum subsp. asiaticum var. turcestanico-eborinum, 2 accessions from USSR  
C. arietinum subsp. euroasiaticum var. bohemico-carneum, 1 accession from USSR  
C. arietinum subsp. euroasiaticum var. bohemico-vaccinum, 1 accession from Bulgaria

UNION OF THE SOVIET SOCIALIST REPUBLICS (cont.)

CAJANUS, CICER & LENS

Details of collection: (cont.)

Cicer arietinum subsp. euroasiaticum var. transcaucasicum-brunneoviolaceum, 2 accessions from USSR  
C. arietinum subsp. euroasiaticum var. transcaucasicum-carneum, 7 accessions from USSR  
C. arietinum subsp. euroasiaticum var. transcaucasicum-rubescens, 1 accession from USSR  
C. arietinum subsp. euroasiaticum var. turcicum-carneum, 5 accessions from USSR  
C. arietinum subsp. euroasiaticum var. turcicum-nigrum, 3 accessions from Bulgaria, Peru and Spain  
C. arietinum subsp. mediterraneum var. hispanicum-flavescens, 2 accessions from Spain  
C. arietinum subsp. orientale var. abyssinicum-brunneum, 4 accessions from Ethiopia, Kenya and India

Lens culinaris subsp. macrosperma var. atrovirens, 1 from Italy  
L. culinaris subsp. macrosperma var. erythrocarpa, 1 from Turkey  
L. culinaris subsp. macrosperma var. glaucosperma, 1 from USSR  
L. culinaris subsp. macrosperma var. iberica, 1 from Tunisia  
L. culinaris subsp. macrosperma var. nummularia, 11 from Argentina, Iraq, Libya, Morocco and USSR  
L. culinaris subsp. macrosperma var. pulmanii, 1  
L. culinaris subsp. microsperma var. abyssinica, 2 from Ethiopia  
L. culinaris subsp. microsperma var. afghanica, 2 from Afghanistan  
L. culinaris subsp. microsperma var. daghestanica, 1 from USSR  
L. culinaris subsp. microsperma var. indica, 1 from India  
L. culinaris subsp. microsperma var. melanosperma, 1 from Afghanistan  
L. culinaris subsp. microsperma var. nigra, 1 from GDR  
L. culinaris subsp. microsperma var. persica, 1 from Iran  
L. culinaris subsp. microsperma var. violascens, 2 from USSR  
L. culinaris subsp. microsperma var. vulgaris, 2 from Bulgaria  
 There are many more accessions of Cicer and Lens species (including wild forms) in this collection but only the above are listed in the Defectus Seminum 1982-85

Maintenance of collection: As seeds: long-term seed storage at -10°C, in sealed cans. Medium-term seed storage at 4° to 5°C, and 30% RH

Duplication of collection: No information

Availability: No information

Quarantine: Imported material must go through quarantine

Evaluation: No information

Documentation: Manual/partially computerized and complete. A Defectus Seminum is periodically published giving list of samples available for exchange

UNITED STATES OF AMERICA

Regional Plant Introduction Station (W-6)  
 Washington State University  
 Pullman, Washington 99164-6402

Telephone: (509) 335 15 02  
 Telex:  
 Cable:

Curator/person in charge: S. M. Dietz

CAJANUS, CICER & LENS

Details of collection: Cicer arietinum, 3396 accessions from 25 countries  
C. bijugum, 3 accessions  
C. chorassanicum, 1 accession  
C. cuneatum  
C. pinnatifidum, 6 accessions  
Lens culinaris, 1422 accessions from 40 countries

Maintenance of collection: As seeds: medium-term seed storage at 4°C and 38% RH

Duplication of collection: NBPGR, New Delhi, India and ICARDA, Aleppo, Syria

Availability: Freely available

Quarantine: Imported material must go through USDA Quarantine Station

Evaluation: Almost complete

Documentation: Computerized and complete. Catalogue available

UNITED STATES OF AMERICA

National Seed Storage Laboratory (NSSL)  
 Colorado State University  
 Fort Collins, Colorado 80523

Telephone: (303) 484 04 02  
 Telex: CSU 910-930-9008  
 Cable:

Curator/person in charge: S. Eberhart

Details of collection: Cicer arietinum, 2031 accessions from Afghanistan, Ethiopia, India, Iran, Israel, Italy, Jordan, Mexico, Morocco, Pakistan, Spain, Sudan, Syria, Tunisia, Turkey, USSR and USA

Lens culinaris, 617 accessions from Afghanistan, Argentina, Algeria, Australia, Belgium, Bulgaria, Chile, Costa Rica, Czechoslovakia, Egypt, Ethiopia, France, Guyana, Germany, Greece, Guatemala, Hungary, India, Iran, Israel, Italy, Jordan, Lebanon, Mexico, Pakistan, Morocco, Peru, Syria, Tunisia, Turkey, USSR, USA and Yugoslavia

Maintenance of collection: As seeds: long-term seed storage at -14°C, uncontrolled humidity, in hermetically sealed packets. Short-term seed storage at 5°C with controlled RH

Duplication of collection: Cicer germplasm partially duplicated at Georgia and Washington P.I. Stations. Lens germplasm partially duplicated at Washington P.I. Station; USDA, Washington, USA and at Saskatchewan, Canada

Availability: Only if not available from other sources

Evaluation: Responsibility for evaluation of all NSSL accessions lies with the USDA Regional Plant Introduction Stations who have active collections of the same material

Documentation: Computerized on UNIVAC 1100/80 (EXEC.8 operating system). Print-outs available. Ms. L. Sonnen is in charge of accessions and their documentation

# *Lupinus and Vicia*



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AFGHANISTAN

LUPINUS & VICIA

Crop Germplasm Unit  
 Crop Improvement Division  
 Plant Research and Soil Science Department  
 Darul Aman Agriculture Research Station  
 Ministry of Agriculture, Kabul

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: M. A. Rashid

Details of collection: Vicia ervilia, 21 landraces  
V. faba, 67 landraces  
 All material was collected in Afghanistan

Maintenance of collection: As seeds: medium-term seed storage at 2°C and 35% to 40% RH

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

AUSTRALIA

Division of Plant Industry  
 Commonwealth Scientific & Industrial Research  
 Organization (CSIRO)  
 G.P.O. Box 1600, Canberra City, ACT 2601

Telephone: (062) 46 49 11  
 Telex: 62351 PICAN  
 Cable: PLANTIND CANBERRA

Curator/person in charge: R. Pullen

Details of collection: Lupinus albus, 21 accessions  
L. angustifolius, 26 accessions  
L. luteus, 26 accessions  
L. mutabilis, 13 accessions

Maintenance of collection: As seeds: medium-term seed storage at 2°C

Duplication of collection: Not duplicated

Availability: Small samples available for research purposes only

Quarantine: Imported material must pass through quarantine

Evaluation: No evaluation data is available

Documentation: Partial and manual

AUSTRALIA

Australian Temperate Field Crops Collection  
 Victorian Crops Research Institute  
 Private Bag 260  
 Horsham, Victoria 3400

Telephone: (053) 82 31 41 / 82 20 63  
 Telex: 55880 AA CRIHOR  
 Cable:

Curator/person in charge: A. McIntyre

Details of collection: Lupinus spp.

LUPINUS & VICIA

|                                |   |
|--------------------------------|---|
| Details of collection: (cont.) | <u>Vicia</u> spp.   |
| Maintenance of collection:     | As seeds of populations. Long-term seed storage at -18°C and short-term seed storage at 2°C |
| Duplication of collection:     | No information  |
| Availability:                  | Freely available  |
| Quarantine:                    | No information  |
| Evaluation:                    | No information  |
| Documentation:                 | Computerized  |

NB. This is a new facility and the collections are in the process of being assembled

AI'STRALIA

|   |  |
|---|--|
| Western Australia Department of Agriculture<br>Baron-Hay Court<br>South Perth, Western Australia 6151 | Telephone: (09) 368 33 33<br>Telex: AA 93304<br>Cable: AGDEP Perth |
|---|--|

Curator/person in charge: W. A. Cowling

Details of collection: Lupinus albus  
L. angustifolius (main species in collection)  
L. atlanticus  
L. cosentinii  
L. digitatus  
L. hispanicus  
L. luteus  
L. micranthus  
L. mutabilis  
L. pilosus  
L. princei  
 More than 1000 accessions collected in the Mediterranean region or donated from institutions in other countries

|                            |   |
|----------------------------|---|
| Maintenance of collection: | As seeds: medium-term seed storage at 4°C, in glass jars. As of 1989, the Australian lupin collection will be held in long-term seed storage at the Temperate Field Crops Genetic Resources Centre, Crops Research Institute, Horsham, Victoria, Australia                          |
| Duplication of collection: | Spain, Republic of South Africa, URSS and other countries   |
| Availability:              | Freely available on exchange basis, if seed quantities permit   |
| Quarantine:                | Incoming seed must be clean and free of insects and send to Quarantine Officer, Department of Agriculture (above address)   |
| Evaluation:                | The early collection (to 1973) has been thoroughly evaluated for morphological and agronomic characters. Recent material is currently undergoing evaluation   |
| Documentation:             | Manual, but in process of computerization on PRIME computer using INFO programming. Published evaluation data on: Gladstones, J.S., and G.B. Crosbie (1979). Lupin wild types introduced into Western Australia to 1973. Tech. Bull. No. 43, Dept. Agriculture of Western Australia |

AUSTRIA

LUPINUS & VICIA

Landwirtschaftlich-chemische  
Bundesversuchsanstalt Linz  
(Agrarbiologische Institut)  
P.O. Box 17  
Wieningerstrasse, 8, A-4025 Linz

Telephone: (0732) 812 61/3  
Telex:  
Cable:

Curator/person in charge: R. Schachl

Details of collection: Vicia spp., 14 old cultivars

Maintenance of collection: As seeds: long-term seed storage at -20°C. Short-term seed storage at 10° to 15°C and seeds with 8% moisture content

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

AUSTRIA

Bundesanstalt für Pflanzenbau  
P.O. Box 64  
Alliiertenstrasse, 1, A-1201 Vienna

Telephone: 24 15 11  
Telex: 35259 BANST A  
Cable:

Curator/person in charge: R. Hron

Details of collection: Vicia faba, 88 old cultivars

Maintenance of collection: As seeds: long-term seed storage at -20°C. Short-term seed storage at 10° to 15°C and seeds with 8% moisture content

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

BOLIVIA

Centro de Investigaciones Fitoecogenéticas  
de Pairumani  
Casilla de Correos 128, Cochabamba

Telephone: 600 83 / 450 08  
Telex:  
Cable:

Curator/person in charge: R. Rios

Details of collection: Lupinus mutabilis, 201 accessions from Cochabamba, La Paz, Sucre and Potosi. Samples collected at the altitude range of 2020 to 3800 m.a.s.l.

Maintenance of collection: Cold room

Duplication of collection: Cuzco, Peru

LUPINUS & VICIA

Availability: Freely available in limited quantity  
 Quarantine: No information  
 Evaluation: Agronomic characters  
 Documentation: No information

BRAZIL

|   |                                    |
|---|------------------------------------|
| Centro Nacional de Recursos Genéticos (CENARGEN)        | Telephone: 2724203/2720253/2742717 |
| Empresa Brasileira de Pesquisas Agropecuárias (EMBRAPA) | Telex: 061-1622 or 273-0100        |
| C.P. 10.2372  | Cable:                             |
| 70.770 Brasília D.F.                                    |                                    |

Curator/person in charge: J. Silva  
 Details of collection: Vicia spp., 150 accessions from Brazil  
 Maintenance of collection: As seeds: long-term seed storage at -18°C, in sealed cans and laminated aluminium foil packets. Seed moisture content of 6% to 7%  
 Duplication of collection: No information  
 Availability: Freely available. Requests for germplasm must be sent to the Chief, CENARGEN  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: Computerized and complete for passport data. IBM 4341 (operating system OS/VS1) is used. Print-outs available. E. A. Morales is in charge of documentation

BRAZIL

|  |           |
|--|-----------|
| Instituto Agronômico do Paraná (IAPAR) | Telephone |
| Rod. Celso Garcia Cid, km 375          | x         |
| 86.100 Londrina, PR                    | Cable:    |

Curator/person in charge: J. R. Alberini / B. Cury  
 Details of collection: Lupinus albus, 12 accessions  
L. angustifolius, 11 accessions  
L. hispanicus, 1 accession  
L. luteus, 10 accessions  
L. mutabilis, 6 accessions  
 From different countries, mostly cultivars  
 Maintenance of collection: Cold storage  
 Duplication of collection: No information  
 Availability: Freely available on exchange basis  
 Quarantine: No information  
 Evaluation: 25 accessions partially evaluated  
 Documentation: Manual. Publication: "Informe da Pesquisa da Cultura do Tremoço"

BULGARIA

LUPINUS & VICIA

Institute of Plant Introduction  
and Genetic Resources "K. Malkov"  
District of Plovdiv  
BG-4122 Sadovo

Telephone: 22 21 / 22 51 / 22 52  
Telex: 44444 ZOS BG  
Cable:

Curator/person in charge: K. D. Kostov

Details of collection: Vicia ervilia, 3 accessions  
V. faba, 99 accessions  
V. melanops, 5 accessions  
V. sativa, 164 accessions  
V. villosa, 25 accessions

Maintenance of collection: As seeds: long-term seed storage at -15°C, seeds dried to 3% to 7% moisture content, in glass jars. Short-term seed storage at 10°C and 50% RH, in paper bags (working collection)

Duplication of collection: No information

Availability: Freely available on exchange basis

Quarantine: No information

Evaluation: Evaluation is in progress using descriptor lists worked out by the COMECON countries. An Index Seminum is issued at regular intervals

Documentation: Computerized and complete. The institute has two Apple II plus microcomputer Print-outs available. I. Lozanov is in charge of documentation. For more information see Kostov, K. and Lozanov, I (1985) National genetic resources programme in Bulgaria. FAO/IBPGR Pl. Genet. Resources Newsl. 62: 28-31

CHILE

Campex  
Casilla de Correos 87  
Temuco

Telephone:  
Telex:  
Cable:

Curator/person in charge: E. von Baer

Details of collection: From South America, International Centres and Republic of South Africa:  
Lupinus albus, 70 accession  
L. angustifolius, 4 accessions  
L. arboreus, 2 accessions  
L. hispanicus, 1 accession  
L. luteus, 4 accessions  
L. microcarpus, 1 accession  
L. mutabilis, 100 accessions  
L. polyphyllus, 1 accession

Maintenance of collection: As seeds: short-term seed storage at ambient temperatures

Duplication of collection: Part in Cuzco, Peru

Availability: No information

Quarantine: No information

Evaluation: Partial

Documentation: Manual

COLOMBIALUPINUS & VICIA

Instituto Colombiano Agropecuario (ICA)  
Tibaitatá  
Apartado Aéreo 151123  
El Dorado  
Bogotá

Telephone:  
Telex:  
Cable:

Curator/person in charge: L. E. Lopez Jaramillo

Details of collection: Lupinus albus, 2 from Australia and 2 from Spain  
L. angustifolius, 3 from Australia and 2 from Spain  
L. luteus, 2 from Spain  
L. mutabilis, 9 from Peru and 5 from Colombia  
Lupinus spp., 8 from Colombia

Maintenance of collection: As seeds: medium-term seed storage at 1°C

Duplication of collection: Not duplicated

Availability: Freely available on exchange basis

Quarantine: Phytosanitary certificate required for seed importation

Evaluation: Work is on-going

Documentation: Passport data processed in Apple IIe microcomputer, dBase-II programme used

COLOMBIA

Centro Experimental Palmira  
Instituto Colombiano Agropecuario (ICA)  
Apartado Aéreo 233  
Palmira Valle

Telephone: 281 70  
Telex:  
Cable: ICA

Curator/person in charge: G. Bastidas

Details of collection: Lupinus spp., 36 accessions from Australia, Bolivia, Ecuador, and Peru  
Vicia faba, 37 accessions from different countries

Maintenance of collection: As seeds: short-term seed storage at 10° to 15°C and 60% to 75% RH, in plastic containers

Duplication of collection: No information

Quarantine: Vicia and Lupinus may be imported with phytosanitary certificate and only if free from common mosaic virus

Evaluation: In progress

Documentation: Partial and manual

CUBA

Instituto de Investigaciones Fundamentales  
en Agricultura Tropical (INIFAT)  
Alejandro de Humbolt  
Calle 1 esq. a2  
Santiago de las Vegas, Habana

Telephone:  
Telex:  
Cable:

Curator/person in charge: R. Martinez Viera

CUBA (cont.)

LUPINUS & VICIA

Details of collection: Vicia faba, 300 landraces from Cuba  
 Maintenance of collection: No information  
 Duplication of collection: No information  
 Availability: No information  
 Quarantine: No information  
 Evaluation: Partial  
 Documentation: Manual

CYPRUS

Agricultural Research Institute (ARI)  
 Ministry of Agriculture and Natural Resources  
 P.O. Box 2016  
 Nicosia

Telephone: (02) 40 34 31  
 Telex: 4660 MINAGRI  
 Cable: ARI NICOSIA

Curator/person in charge: A. Della  
 Details of collection: Vicia ervilia, 15 primitive cultivars  
V. faba, 101 primitive cultivars  
V. sativa, 67 primitive cultivars  
 All material was collected in Cyprus  
 Maintenance of collection: As seeds (populations) in medium-term seed storage at 4°C and 50% RH  
 Duplication of collection: Istituto del Germoplasma, Bari, Italy and ICARDA, Aleppo, Syria  
 Availability: Available in limited quantity  
 Quarantine: Phytosanitary certificate is essential for import  
 Evaluation: V. faba is under evaluation while the rest of the species will be evaluated in the near future  
 Documentation: Complete and computerized for passport and collection data whilst partially complete for characterization data. For further information see Della, A. (1980) Broad bean (Vicia faba) collecting in Cyprus. FAO/IBPGR Pl. Genet. Resources Newsl. 44: 17-19

CZECHOSLOVAKIA

Research and Breeding Institute for  
 Technical Crops and Legumes  
 787 12 Sumperk, Temenice

Telephone: (649) 45 11  
 Telex: 66554 VSUTPL C  
 Cable: VYZKUM, SUMPERK-TEMENICE

Curator/person in charge: A. Pavelkova  
 Details of collection: Vicia faba, 252 landraces and commercial cultivars from 25 countries  
V. pannonica, 16 landraces and commercial cultivars from 5 countries  
V. sativa, 214 landraces and commercial cultivars from 23 countries

LUPINUS & VICIA

|                                |  |
|--------------------------------|--|
| Details of collection: (cont.) | <u>Vicia villosa</u> , 54 landraces and commercial cultivars from 8 countries  |
| Maintenance of collection:     | As seeds: short-term seed storage at 15°C and 40% RH (active collection). Sub-zero storage conditions with low seed moisture content will become operational     |
| Duplication of collection:     | No information   |
| Availability:                  | Freely available through the Head, Department of Genetic Resources, Research Institute for Crop Production, 16106 Praha 6-Ruzyne 507. Person in charge: I. Bares |
| Quarantine:                    | No known restriction   |
| Evaluation:                    | The collection has been evaluated, details are available in research reports edited by Research Institute for Crop Production                                    |
| Documentation:                 | Complete and computerized  |

CZECHOSLOVAKIA

Research and Breeding Institute  
for Fodder Crops  
664 41 Troubsko

Telephone: (5) 32 08 64  
Telex: 62661 VSUP C  
Cable:

|                            |                           |
|----------------------------|---------------------------|
| Curator/person in charge:  | V. Vacek                  |
| Details of collection:     | Viciaceae, 130 wild/weedy |
| Maintenance of collection: | Short-term seed storage   |
| Duplication of collection: | No information            |
| Availability:              | No information            |
| Quarantine:                | No information            |
| Evaluation:                | No information            |
| Documentation:             | No information            |

ECUADOR

instituto Nacional de Investigaciones  
Agropecuarias (INIAP)  
Estación Experimental Santa Catalina  
km 18, Panamericana Sur  
Apartado 340  
Santa Catalina

Telephone: 317-035 or 317-115  
Telex:  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | R. Castillo / J. Acuna ( <u>Lupinus</u> ) / C. Cristobal ( <u>Vicia</u> )  |
| Details of collection:     | <u>Lupinus mutabilis</u> , 63 local landraces and 90 from other countries<br><u>Vicia faba</u> , 90 local landraces and 180 from other countries |
| Maintenance of collection: | No information   |
| Duplication of collection: | No information   |

ECUADOR (cont.)

LUPINUS & VICIA

Availability: No information  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: No information

ECUADOR

Instituto de Ciencias Naturales  
 Universidad Central  
 Apartado 633  
 Quito

Telephone: 523-710  
 Telex:  
 Cable:

Curator/person in charge: A. Ortega

Details of collection: Lupinus mutabilis, c30 local cultivars

Vicia faba, 1650 accessions including 600 local and 900 introduced landraces and cultivars; and 150 other accessions

Maintenance of collection: As seeds: medium-term seed storage at 0° to 5°C, in plastic bags and aluminium foil containers

Duplication of collection: V. faba at INIAP

Availability: Available in limited quantity

Quarantine: No known restrictions

Evaluation: Botanical and morphological data only

Documentation: Partial and manual. Computerization in progress

ETHIOPIA

Plant Genetic Resources Centre (PGRC)  
 Institute of Agricultural Research  
 P.O. Box 30726  
 Addis Ababa

Telephone: 180381  
 Telex:  
 Cable: GENE BANK, Addis Ababa

Curator/person in charge: M. Worede

Details of collection: Lupinus albus var. albus, 21 landraces collected in north-central and north-western part of Ethiopia  
L. mutabilis, 1

Vicia faba, 614 primitive landraces from Ethiopia, collected by PGRC; and 594 other accessions

Maintenance of collection: As seeds: long-term seed storage at -10°C with seeds dried to 4% to 7% moisture content. Medium-term seed storage at 4°C and 30% to 40% RH (active collection), in hermetically sealed aluminium foil bags. For more details see Krauss, A (1983) ILCA Newsl. 4: 9-12

Duplication of collection: Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG

Availability: Freely available

LUPINUS & VICIA

**Evaluation:** In progress using IBPGR descriptor lists. For more details see Engels, J.M.M. (1985) FAO/IBPGR Pl. Genet. Resources Newsl., 61: 13-18

**Documentation:** Computerized. HP 125 microcomputer is used. HP 3000 computer using database management system "MINISIS" belonging to ILCA is also being utilized. In future inter computer link-ups will be installed. For further information on collections see PGRC/E.ILCA Newsl. 8, April 1985

FEDERAL REPUBLIC OF GERMANY

Institut für Pflanzenbau und Pflanzenzüchtung (FAL)  
 Bundesallee, 50  
 D-3300 Braunschweig

Telephone: (0531) 59 66 00 / 01  
 Telex:  
 Cable: LANDFORSCHUNG, Völkeroode

Curator/person in charge: M. Dambroth

Details of collection:

Lupinus albus, total of 96 accessions:

46 landraces and cultivars from Algeria (1), Belgium (1), FRG (13), France (5), Greece (3), Hungary (3), Italy (10), Morocco (2), Spain (1), USA (1), USSR (1), Yugoslavia (1) and unknown (2); 45 breeding lines from Algeria (1), FRG (20), Hungary (1), Italy (18), Portugal (1), Spain (1) and Yugoslavia (1) and unknown (2); 3 populations from Greece (3); 2 wild from Egypt (1) and Morocco (1)

L. angustifolius, total of 370 accessions:

49 wild from Italy (30), Israel (7), Portugal (5), Spain (4), Turkey (2) and unknown (1); 15 landraces from Australia (4), Portugal (6), Poland (1), USA (2) and UK (2); 137 primitive cultivars from Greece (1), Israel (1) and Spain (135); 144 cultivars from Australia (1), Denmark (1), FRG (17), GDR (1), Hungary (1), New Zealand (1), Morocco (44), Poland (3), Portugal (24), Spain (17), Republic of South Africa (3) USA (1), USSR (12) and unknown (18); 25 breeding lines from: FRG (5), Republic of South Africa (1), USA (1), USSR (2), UK (1) and unknown (15);

L. angustifolius var. coeruleus, 1 wild from USSR

L. angustifolius var. leucanthus, 1 cultivar from USSR

L. angustifolius var. roseus, 1 cultivar from USSR

L. aridus, 3 donated by NIAVT

L. atlanticus, 15 from Morocco; 3 wild from Australia (1) and Morocco (2)

L. cosentinii, 27 accessions from Algeria (1), Morocco (20), Portugal (1 wild), Spain (20) and Tunisia (4)

L. elegans, 2 wild from Hungary (1) and USSR (1)

L. hartwegii, 2 cultivars from FRG; 2 wild from Hungary (1) and Poland (1); and 2 other accessions

L. hispanicus, 31 wild from Portugal (11) and Spain (20)

L. hispanicus subsp. bicolor, 33 wild from Portugal (15) and Spain (18)

L. luteus: 55 accessions from FRG (4), Guatemala (1), Hungary (4), Israel (2), Netherlands (10), Portugal (9), Poland (4), Sweden (5), Spain (4), Republic of South Africa (1), USSR (6), Yugoslavia (2) and unknown (3); 44 cultivars from Denmark (1), FRG (17), GDR (1), Hungary (1), Netherlands (4), Poland (11), USSR (5) and unknown (4); 20 landraces from FRG; 34 breeding lines from Italy (1), Israel (1), Netherlands (1), Poland (8), Sweden (1), Republic of South Africa (2) and unknown (20); 48 wild from Israel (3), Morocco (2), Portugal (40) and Spain (3)

L. luteus var. leucosperma, 1 cultivar from USSR

L. luteus var. maculatus, 4 cultivars from USSR

L. luteus var. micranthus, 3 accessions from Israel (2) and Morocco (1)

L. micranthus, 1 accession

FEDERAL REPUBLIC OF GERMANY (cont.)

LUPINUS & VICIA

Details of collection: (cont.)

- Lupinus mutabilis, 604 primitive cultivars, 351 wild from Peru; 46 accessions from Bolivia (1), Czechoslovakia (1), France (2), Peru (38), UK (1) unknown (3)  
L. palaestinus, 4 wild from Israel  
L. perennis, 1 wild from Belgium  
L. pilosus, 6 wild from Israel (5) and Turkey (1)  
L. polyphyllus, 1 cultivar from USSR, 4 landraces from FRG; 15 wild from FRG (12), USA (1) and USSR (2)  
L. polyphyllus var. albiflorus, 1 accession  
L. polyphyllus var. grandiflorus, 1 accession  
L. polyphyllus var. polyphyllus, 1 accession  
L. polyphyllus var. prunophilus, 1 accession  
L. subcarinosus, 2 accessions  
L. succulentus, 6 accessions  
Lupinus spp., 7 from Italy
- Vicia ervilia, 22 populations from Iran and 1 cultivar  
V. faba, 50 cultivars from FRG (4), Hungary (3), Israel (1), Italy (1), Netherlands (2), Spain (1), Sudan (1), UK (4), USSR (11) and unknown (22); 3 breeding lines from Lebanon (1) and Syria (2); 213 landraces from Chile (3), Egypt (208), FRG (2); 8 populations from Iran (3), Morocco (1), Romania (1) and unknown (3); 13 wild from Afghanistan (3), Chile (1), Ethiopia (2), Libya (1) and USSR (6); and 411 other accessions from many sources  
V. faba var. equina, 1 population from Tunisia; 7 cultivars from Egypt (1), Greece (1), Mexico (4) and Tunisia (1)  
V. faba var. major, 1 cultivar from FRG  
V. faba var. faba, 66 accessions from Czechoslovakia (2), FRG (16), Greece (1), Italy (4), Netherlands (2), Poland (2), Romania (12), USSR (8) and unknown (19); 15 cultivars from Czechoslovakia (2), France (2), Netherlands (1), UK (6) and unknown (4); 2 breeding lines from Romania; and 3 populations from Romania (1), USSR (1) and unknown (1)  
V. faba subsp. major, 72 cultivars from Austria (1), Colombia (1), Czechoslovakia (1), Finland (1), FRG (4), France (1), Japan (2), Mexico (7), Netherlands (15), Tunisia (22), UK (14), USSR (2) and unknown (1)  
V. faba var. minuta, 5 cultivars from Czechoslovakia (1), Tunisia (1), UK (1), USSR (1) and unknown (1)  
V. faba subsp. faba var. equina, 4 landraces from Egypt (1), Greece (1), Italy (1) and unknown (1); and 3 cultivars  
V. faba subsp. faba var. faba, 1 cultivar from Italy  
V. faba subsp. minor var. minor, 5 cultivars from Czechoslovakia (1), USSR (1) and unknown (3); and 9 other accessions from Czechoslovakia (1), Greece (2), Italy (1), Poland (1) and unknown (4)  
V. faba subsp. minor var. minuta, 43 cultivars from Australia (2), Czechoslovakia (5), FRG (1), France (6), Netherlands (2), Poland (3), Sweden (2), Tunisia (3), UK (6), Yugoslavia (3) and USSR (10)  
V. narbonensis, 5 breeding lines  
V. pannonica, 6 donated by NIAVT  
V. pannonica subsp. pannonica, 1 cultivar  
V. sativa, 1 landrace from Israel; 15 cultivars from Bulgaria (1), Hungary (1), Poland (2), Sweden (1) and unknown (10); and 44 other accessions from FRG (1), Italy (1), Spain (1), USSR (18) and unknown (23)  
V. sativa var. erythrosperma, 2 from USSR  
V. sativa var. glabra, 1 from USSR  
V. sativa var. melanosperma, 1 from USSR  
V. sativa subsp. sativa, 19 from USSR; and 3 cultivars  
V. sativa subsp. sativa var. sativa, 1 from Greece  
V. villosa, 13 cultivars from FRG and 20 other accessions from Canada (1), FRG (1), Turkey (1), USSR (3) and unknown origin (14)  
V. villosa subsp. microphylla, 1 from Greece  
V. villosa subsp. varia, 1 from France  
V. villosa subsp. villosa var. genuina, 1 from USSR

LUPINUS & VICIA

Maintenance of collection: As seeds: long-term seed storage at -10°C and 4% to 8% seed moisture content, in airtight tins

Duplication of collection: No information

Availability: Freely available in limited quantity

Quarantine: No known restrictions

Evaluation: Partial evaluation has been done

Documentation: Computerized. Passport data and other information available from L. Seidewitz, Institut für Pflanzenbau und Pflanzenzüchtung, Bundesallee 50, D-3300 Braunschweig, FRG

FEDERAL REPUBLIC OF GERMANY

Oberlimpurg Plant Breeding Co.  
Dr. Franck  
D-7170 Schwälbisch Hall

Telephone: (0791) 21 01 / 25 25  
Telex: 74887 PZOFRA D  
Cable:

Curator/person in charge: W. H. Baier

Details of collection: Vicia faba, 450 commercial cultivars, breeders' lines and landraces. Landraces from Hohenlohe old private collection. Other material partially from Hohenheim University and ICARDA, Aleppo, Syria

Maintenance of collection: As seeds: of populations and single plants in medium-term seed storage at 4°C (15m3) and 40% RH, in polythene bags

Duplication of collection: No information

Availability: Only some accessions available

Quarantine: No known restrictions

Evaluation: Evaluated for characters useful to breeders only

Documentation: No information

FEDERAL REPUBLIC OF GERMANY

Institut für Pflanzenzüchtung  
Saatgutforschung und Populations-genetik  
Universität Hohenheim  
Postfach 700562  
Garbenstrasse, 9  
D-7000 Stuttgart 70

Telephone: (0711) 45 01 / 26 44  
Telex: 722959 UNIHO D  
Cable: 350/Hohenheim University

Curator/person in charge: H. Geiger

Details of collection: Vicia faba, 500 landraces, cultivars and breeders' lines from all parts of Europe, North Africa, Near East and South America

Maintenance of collection: As seeds: medium-term seed storage at 4°C and 65% RH, in paper bags

Duplication of collection: No information

Availability: Available in limited quantity (restricted to 10/20 seeds of some samples only)

FEDERAL REPUBLIC OF GERMANY (cont.)

LUPINUS & VICIA

- Quarantine: Seeds should be free from live Buchideae and Ascochyta blight
- Evaluation: In progress for different agronomic characters including auto-fertility
- Documentation: At present partial and manual but computerized documentation is underway

FEDERAL REPUBLIC OF GERMANY

Landssaatzuchtanstalt  
Universität Hohenheim  
P.O. Box 70 05 62  
D-7000 Stuttgart 70

Telephone: (0711) 45 01 / 26 87  
Telex: 722959 UNIHO D  
Cable:

- Curator/person in charge: E. von Kittlitz
- Details of collection: Vicia faba, 80 old cultivars
- Maintenance of collection: As seeds: medium-term seed storage at -5°C, in paper bags
- Duplication of collection: No information
- Availability: No information
- Quarantine: No information
- Evaluation: No information
- Documentation: No information

FRANCE

Station d'Amélioration des Plantes  
INRA  
P.O. Box 1540  
F-21034 Dijon Cedex

Telephone: (80) 39 72 21  
Telex:  
Cable:

- Curator/person in charge: A. Cornu
- Details of collection: Lupinus mutabilis, 100 landraces  
Vicia faba, 800 landraces and 50 old cultivars  
V. narbonensis, 1 landrace and 1 old cultivar
- Maintenance of collection: As seeds: long-term seed storage at -20°C and medium-term seed storage at -6°C and 40% RH
- Duplication of collection: No information
- Availability: No information
- Quarantine: No information
- Evaluation: Lupins: earliness, resistance to anthracnose and absence of alkaloids  
Faba bean: hybrid production, improved fertility, N<sub>2</sub> fixation and quality (protein, tannins, vicin and convicin)
- Documentation: No information

FRANCELUPINUS & VICIA

Station Amélioration des Plantes  
INRA  
F-86600 Lusignan

Telephone:  
Telex:  
Cable:

Curator/person in charge:

Papineau

Details of collection:

Lupinus albus, 350 cultivated or semi-cultivated from Mediterranean region  
L. mutabilis, 150 donated by Universidad del Cuzco, Peru

Maintenance of collection:

As seeds: medium-term seed storage at 3°C

Duplication of collection:

Not duplicated

Availability:

Freely available

Quarantine:

No information

Evaluation:

Partial agronomic evaluation

Documentation:

Manual and computerized

FRANCE

Station d'Amélioration des Plantes  
INRA  
P.O. Box 29  
Domaine de la Motte-au-Vicomte  
F-35650 Le Rheu

Telephone: (99) 60 71 92  
Telex: 740060 INRALR F  
Cable:

Curator/person in charge:

P. Berthelem

Details of collection:

Vicia faba, 20 wild/weedy, 30 landraces and 200 old cultivars

Maintenance of collection:

As seeds: medium-term seed storage at 2° to 4°C

Duplication of collection:

No information

Availability:

No information

Quarantine:

No information

Evaluation:

No information

Documentation:

No information

GERMAN DEMOCRATIC REPUBLIC

Zentralinstitut für Genetik und  
Kulturpflanzenforschung (ZiJK)  
Corrensstrasse, 3  
DDR-4325 Gatersleben

Telephone: Gatersleben 50  
Telex: 42558 KUPFGA DDR  
Cable:

Curator/person in charge:

Ch. Lehmann

Details of collection:

Lupinus albus, 169 accessions  
L. angustifolius subsp. angustifolius, 196 accessions  
L. luteus, 116 accessions  
L. hispanicus, 10 accessions  
L. micranthus, 12 accessions

GERMAN DEMOCRATIC REPUBLIC (cont.)

LUPINUS & VICIA

Details of collection: (cont.)

Lupinus mutabilis, 19 accessions  
Lupinus spp., 71 accessions  
 Collection includes wild, landraces, primitive and commercial cultivars from Iberian Peninsula (Portugal/Spain), Greece, Italy and other countries

Vicia spp. over 2500 accessions  
Vicia cordata, 2 accessions  
V. eriocarpa, 2 accessions  
V. faba subsp. faba, 749 accessions from Afghanistan, mutants (8), Australia (2), Austria (1), Belgium (1), Bulgaria (4), China (6), Czechoslovakia (25), Egypt (28), Ethiopia (73), FRG (12), Finland (4), France (15), GDR (11), Greece (43), Hungary (2), India (3), Iran (2), Iraq (1), Italy (151), Mongolia (1), Morocco (12), Netherlands (15), Peru (4), Poland (71), Portugal (1), Spain (103), Sudan (4), Sweden (1), Switzerland (3), Syria (3), Tunisia (1), Turkey (16), UK (32), USSR (47), Yugoslavia (6), Latin America (7) and unknown (30)  
V. faba subsp. faba var. equina subvar. equina, 16 accessions  
V. faba subsp. faba var. equina subvar. rugosa, 7 accessions  
V. faba subsp. faba var. equina subvar. clausa, 1 accession  
V. faba subsp. faba var. equina subvar. faba, 22 accessions  
V. faba subsp. minor  
V. faba subsp. minor var. minor subvar. minor group Elatag, 80 accessions  
V. faba subsp. minor var. minor subvar. minor group Pluricaules, 6 accessions  
V. faba subsp. minor var. minor subvar. tenuis, 5 accessions  
V. pannonica subsp. pannonica, 8 accessions  
V. sativa convar. cosentinii, 2 accessions  
V. sativa convar. sativa var. platysperma, 4 accessions  
V. sativa convar. sativa var. sativa, 107 accessions  
V. villosa, 18 accessions  
V. villosa subsp. varia, 5 accessions

Maintenance of collection:

As seeds: long-term seed storage at -10°C, in sealed glass jars. Medium-term seed storage at 0°C and 30% RH (active collection)

IBPGR designated base centre for Lupinus germplasm

Duplication of collection:

No information

Availability:

Available

Quarantine:

No known restrictions

Evaluation:

No information

Documentation:

Complete and manual. Computerization in progress. Index Seminum is available

GREECE

Fodder Crops and Pastures Institute  
 Ministry of Agriculture  
 Larissa

Telephone: (041) 23 97 11  
 Telex:  
 Cable:

Curator/person in charge:

K. I. Podimatas

Details of collection:

Vicia faba, 15 landraces and 12 old cultivars  
V. sativa, 27 landraces and 637 old cultivars

Maintenance of collection:

As seeds: long-term seed storage at -15° to -18°C

Duplication of collection:

No information

LUPINUS & VICIA

Availability: No information  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: No information

HUNGARY

Research Centre of Seed Growing  
 and Trading Enterprise  
 Westsik V. u. 4-6  
 H-4400 Nyiregyhaza

Telephone: 101 33 / 111 48  
 Telex: 73409 VM KUT H  
 Cable:

Curator/person in charge: J. Bukai  
 Details of collection: Lupinus spp., 3 landraces and 1 old cultivar  
Vicia faba, 3 landraces and 10 old cultivars  
 Maintenance of collection: No information  
 Duplication of collection: No information  
 Availability: No information  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: No information

HUNGARY

Irrigation Research Institute  
 Szabadság u. 2  
 H-5540 Szarvas

Telephone: Szarvas 214  
 Telex: 82471  
 Cable:

Curator/person in charge: G. Marjai  
 Details of collection: Vicia faba, 22 old cultivars  
 Maintenance of collection: As seeds: short-term seed storage at ambient temperatures  
 Duplication of collection: No information  
 Availability: No information  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: No information

HUNGARY

LUPINUS & VICIA

Research Centre for Agrobotany  
Institute for Plant Production  
and Qualification (IPPQ)  
H-2766 Tápíószele

Telephone: Tápíószele 41  
Telex: 226981 AGBOT H  
Cable:

Curator/person in charge: A. L. Kiss / A. Szucs / I. Karsai

Details of collection: Lupinus spp., 291 accessions of 26 species  
Vicia faba, 260 accessions

Maintenance of collection: As seeds: long-term seed storage at -20°C with no RH control and medium-term seed storage at 4°C or 0°C, in airtight jars

Duplication of collection: No information

Availability: Freely available, depending on the seed quantities stored

Quarantine: Phytosanitary certificate required

Evaluation: Partial and in progress

Documentation: Partial and manual. Computerization in progress

IRAN

Plant Genetic Resources Unit  
Seed and Plant Improvement Institute (SPII)  
Ministry of Agriculture and Rural Development  
Mard-Abad Road  
Karaj

Telephone:  
Telex:  
Cable:

Curator/person in charge: Parviz Vojdani

Details of collection: Vicia faba, 42 local landraces

Maintenance of collection: As seeds: long-term seed storage at -20°C, in airtight metal cans with about 500g seed

Duplication of collection: Istituto del Germoplasma, Bari, Italy; ICRISAT, Hyderabad, India for some samples. Others held at Agricultural colleges of the Tehran University under warehouse conditions at present

Availability: Freely available in limited quantity

Quarantine: The import and export of seeds is subjected to Iran's quarantine regulations

Evaluation: Preliminary evaluation has been carried out on most of the samples. More detailed evaluation in progress

Documentation: Partial and manual at present but will be computerized with IBPGR's assistance

IRAQ

Genetic Resources Unit  
Ministry of Agriculture and Agrarian Reform  
Abu Ghraib  
Baghdad

Telephone:  
Telex:  
Cable:

Curator/person in charge: A. T. Shiarif

LUPINUS & VICIA

Details of collection: Vicia faba, 22 local landraces

Maintenance of collection: As seeds: medium-term seed storage at 5°C and 35% RH, in airtight metal cans

Duplication of collection: No information

Availability: Freely available

Quarantine: No known restrictions

Evaluation: No information

Documentation: Partial and manual

IRELAND

Faculty of Agriculture  
University College  
Lyons Estate  
Newcastle  
Co. Dublin

Telephone: (01) 28 83 85  
Telex: 32693 UCD EI  
Cable:

Curator/person in charge: E. J. Walsh

Details of collection: Vicia faba, 30 old cultivars

Maintenance of collection: As seeds: medium-term seed storage at -5°C and at 5°C

Duplication of collection: No information

Availability: Available in limited quantity

Quarantine: No information

Evaluation: Maturity date

Documentation: No information

ISRAEL

Israel Gene Bank for Agricultural Crops  
Volcani Centre  
P.O. Box 6  
50-250 Bet Dagan

Telephone: (03) 98 04 58  
Telex: 341118 BXTV IL  
Cable:

Curator/person in charge: M. Zur

Details of collection: Vicia faba, collection is divided into local material, landraces and cultivars (50 from Denmark, France, Italy, Japan, Morocco and USSR)

Maintenance of collection: As seeds: long-term seed storage at -10°C, in aluminium and tin containers, no RH control. Seed moisture content reduced to 12%

Duplication of collection: No information

Availability: Freely available

Quarantine: Phytosanitary certificate essential for import

ISRAEL (cont.)

LUPINUS & VICIA

Evaluation: Most of the material has been evaluated

Documentation: All information is computerized using a retrieval system (SAS). The information system is based on DBMS. Different descriptors used for landraces and cultivars

ISRAEL

Department of Botany  
University of Jerusalem  
91904 Jerusalem

Telephone:  
Telex:  
Cable:

Curator/person in charge: D. Heller

Details of collection: Lupinus albus  
L. angustifolius, 10 wild  
L. luteus, 4 wild  
L. micranthus, 3 wild  
L. palaestinus, 15 wild  
L. pilosus, 15 wild  
All from Israel, collected mostly 1975/80; L. luteus and L. micranthus now almost extinct in Israel

Maintenance of collection: No information

Duplication of collection: No information

Availability: Mostly available

Quarantine: No information

Evaluation: No information

Documentation: No information

ITALY

Istituto del Germoplasma  
Consiglio Nazionale delle Ricerche (CNR)  
Via G. Amendola 165/A, I-70126 Bari

Telephone: (080) 58 34 63 / 4  
Telex: 810565 CNR/BA I  
Cable: GERMOPLASMA Bari

Curator/person in charge: P. Perrino

Details of collection: Vicia faba, 1461 accessions from Afghanistan (72), Algeria (34), Bulgaria (1), Canada (122), China (7), Cyprus (103), Dominican Republic (1), Egypt (85), Ethiopia (95), France (10), Greece (55), Hungary (66), India (6), Iran (9), Iraq (52), Italy (247), Japan (4), Jordan (3), Lebanon (30), Morocco (31), Netherlands (19), Pakistan (3), Poland (1), Portugal (5), Spain (107), Sudan (22), Sweden (4), Syria (32), Tunisia (54), Turkey (72), UK (56), USA (2), USSR (6), Yemen (26), Yugoslavia (17) and unknown (2)  
Vicia spp., 2210 accessions from many countries but significant collections from North Africa

Maintenance of collection: As seeds: long-term seed storage at -10°C, in airtight metal cans and aluminium foil containers with silica gel. Medium-term seed storage at 0°C and 40% RH (72m<sup>3</sup>)

IBPGR designated base collection for V. faba germplasm

Duplication of collection: Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG; Nordic Gene Bank, Alnarp, Sweden and ICARDA, Aleppo, Syria

LUPINUS & VICIA

|                |  |
|----------------|--|
| Availability:  | Freely available   |
| Quarantine:    | No known restrictions  |
| Evaluation:    | Approximately 2000 accessions of <u>Vicia</u> spp. were multiplied at Metaponto and Lecce in 1984 due to fall of viability of these accessions under long-term storage. Characterization is in progress on 12 physiological characters and biochemical characters  |
| Documentation: | Computerized and partial using IBM model S/1 (operating on EDX system). Print-outs available. The institute is collaborating with the IBPGR's European Cooperative Programme for the Conservation and Exchange of Crop Genetic Resources (ECP/GR) programme for the creation of a European data base for <u>Vicia</u> spp. G. Scippa is in charge of documentation |

ITALY

Istituto di Agronomia Generale  
e Coltivazioni Erbacee  
Via Valdisavoia, 5  
I-95123 Catania

Telephone: (95) 35 14 20 / 35 13 61  
Telex:  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | S. Foti  |
| Details of collection:     | <u>Vicia faba</u> , 110 landraces, 10 old cultivars and 70 breeding material |
| Maintenance of collection: | Cold store   |
| Duplication of collection: | No information   |
| Availability:              | No information   |
| Quarantine:                | No information   |
| Evaluation:                | Seed storage and evaluation of biological variability                        |
| Documentation:             | No information   |

ITALY

Istituto Sperimentale per l'Orticoltura  
Via Cavalleggeri, 25  
I-84098 Pontecagnano (Salerno)

Telephone: (089) 38 12 52 / 38 12 93  
Telex:  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | A. Ferraro   |
| Details of collection:     | <u>Vicia faba</u> , 4 wild/weedy and 40 old cultivars  |
| Maintenance of collection: | Room with controlled temperature   |
| Duplication of collection: | No information   |
| Availability:              | No information   |
| Quarantine:                | No information   |
| Evaluation:                | Crop biology, physiology and protection. Genetics breeding, agronomical techniques of widespread horticultural species |
| Documentation:             | No information   |

ITALY

LUPINUS & VICIA

Facoltà di Agraria  
Università di Napoli  
Via Università, 100, I-80055 Portici (NA)

Telephone: (081) 775 20 56  
Telex:  
Cable:

Curator/person in charge: L. Postiglione

Details of collection: Lupinus albus, 40 varieties with low alkaloid content and 8 local ecotypes with alkaloid  
L. angustifolius, 3 varieties with low alkaloid content  
L. luteus, 2 varieties with low alkaloid content  
L. mutabilis, 2 lines with alkaloid  
Mostly donated by Australia, FRG, France and Peru

Vicia faba, breeding material (100)

Maintenance of collection: No information

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

MOROCCO

Station Centrale des Plantes Fourragères  
Institut National de la Recherche Agronomique (INRA)  
P.O. Box 415, Rabat

Telephone:  
Telex: 31702 DRA M  
Cable:

Curator/person in charge: B. Sakr

Details of collection: Vicia faba, 121 landraces and cultivars from Australia (1), Egypt (1), Ethiopia (1), France (45), Hungary (1), Italy (2), Japan (1), Mexico (1), Morocco (56), Portugal (1), Spain (6), Turkey (1), UK (1), USSR (4); 78 crossings, 46 mutations and 63 others

Maintenance of collection: As seeds: no special storage provided at present but deep-freezers with IBPGR assistance to be installed

Duplication of collection: Some samples at ICARDA, Aleppo, Syria

Availability: No information

Quarantine: No known restrictions

Evaluation: Evaluated for agronomical and phenological characters

Documentation: Partial and manual

NETHERLANDS

Plant Breeding Company Cebeco-Handelsraad  
P.O. Box 139  
NL-8200 AC Lelystad

Telephone: (03202) 244  
Telex:  
Cable:

Curator/person in charge: A. J. Bouvman

LUPINUS & VICIA

|                            |  |
|----------------------------|--|
| Details of collection:     | <u>Vicia faba</u> , 20 accessions                    |
| Maintenance of collection: | As seeds: medium-term seed storage at 3°C and 40% RH |
| Duplication of collection: | No information                                       |
| Availability:              | No information                                       |
| Quarantine:                | No information                                       |
| Evaluation:                | Diseases, lodging, quality and winter hardiness      |
| Documentation:             | No information                                       |

NETHERLANDS

Centre for Genetic Resources, The Netherlands (CGN)  
 Foundation for Agricultural Plant Breeding (SVP)  
 P.O. Box 117  
 P.L.-6700 AC Wageningen

Telephone: (08370) 191 12  
 Telex: 75044 DLOWA NL6700 AC  
 Cable:

Curator/person in charge: L. J. M. van Soest

Details of collection: Lupinus luteus, 80 cultivars and 115 breeding lines  
L. albus, 55 cultivars and breeding lines  
Vicia faba, 600 landraces and cultivars  
V. faba, 140 breeding lines  
 Material from Ethiopia, France, Germany, India, Netherlands, Pakistan, Poland, Turkey, UK, Asia and Europe

|                            |   |
|----------------------------|---|
| Maintenance of collection: | As seeds: long-term seed storage at -20°C, in airtight laminated foiled packets   |
| Duplication of collection: | FAL, Braunschweig, FRG; ZIGuK, Gatersleben, GDR; Pakistan Agricultural Research Centre and ICARDA Aleppo, Syria                   |
| Availability:              | Freely available. However, at present small quantities (100-500 seeds) available. Regeneration planned                            |
| Quarantine:                | Material with mosaic viruses may be restricted for import in the future. All imported seeds must adhere to quarantine regulations |
| Evaluation:                | Evaluation data are available on some <u>Vicia faba</u> and <u>Lupinus luteus</u> collections                                     |
| Documentation:             | Not yet computerized. Data will be computerized after the new VAX computer becomes operational                                    |

PERU

Universidad Nacional Agraria (UNA)  
 Apartado Aéreo 456  
 La Molina  
 Lima

Telephone: 35 20 35  
 Telex:  
 Cable:

Curator/person in charge: M. S. G. del Carpio R.

Details of collection: Lupinus mutabilis, 300 local landraces  
Vicia faba from Peru-Sierra, 597 local varieties

PERU (cont.)

LUPINUS & VICIA

Maintenance of collection: As seeds: short-term seed storage at 10°C and 50% RH

Duplication of collection: This collection is partially duplicated at some of the institutes in the Andean Zone. Lupinus mutabilis 1200 including wild species at San Antonio de Abad, Peru, (Curator: O. Blanco)

Availability: Freely available

Quarantine: No information

Evaluation: Evaluation has been carried out on morpho-agronomic characters

Documentation: Manual and partial

PERU

Proyecto Cultivos Andinos  
 Instituto Interamericano de Cooperación  
 para la Agricultura (IICA)  
 Apartado 1006  
 Cuzco

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: M. Tapia / C. Vargas

Details of collection: Lupinus aridus  
L. biinclinatus  
L. calcensis  
L. condensiflorus  
L. cuzcensis  
L. malacotrichus  
L. microphyllus  
L. mutabilis  
L. paniculatus  
L. praecaltus  
L. praestabilis  
L. semiprostratus  
L. tomentosa

Maintenance of collection: As seeds: long-term seed storage at -18°C and 4% RH. Active collection at ambient temperatures, no humidity control as stored at 3500m altitude

Duplication of collection: L. mutabilis 1200 including wild species at San Antonio de Abad, Peru (Curator: O. Blanco)

Availability: Freely available

Quarantine: No known restrictions

Evaluation: In progress using standard descriptor list with some modification

Documentation: Manual and partial

PERU

Centro de Investigación en Cultivos Andinos  
 Universidad del Cuzco  
 Casilla de Correos 451  
 Cuzco

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: O. Blanco

LUPINUS & VICIA

|                            |  |
|----------------------------|--|
| Details of collection:     | <u>Lupinus angustifolius</u> , 60 wild<br><u>L. hispanicus</u> , 30 wild<br><u>L. luteus</u> , 50 wild<br><u>L. mutabilis</u> , 1800 cultivated forms from Bolivia and southern and central Peru |
| Maintenance of collection: | Short-term seed storage at ambient temperatures  |
| Duplication of collection: | Part of collection in Bolivia; Puno and Huancuyo, Peru and Badajoz, Spain  |
| Availability:              | Freely available if sufficient seed exists   |
| Quarantine:                | No information   |
| Evaluation:                | Partial agronomic and chemical evaluation  |
| Documentation:             | Manual   |

PERU

Universidad Nacional Técnica del Altiplano  
Casilla de Correos 3  
Puno

Telephone:  
Telex:  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | J. L. Lescano Rivero   |
| Details of collection:     | <u>Lupinus mutabilis</u> , 49 cultivated forms from Peru, Dep. of Puno   |
| Maintenance of collection: | Short-term seed storage at ambient temperatures  |
| Duplication of collection: | Universidad Nacional San Antonio de Abad. Cuzco and Instituto Nacional de Investigación Agrária y Promoción, INIAP, Puno, Peru |
| Availability:              | Freely available in limited quantity   |
| Quarantine:                | No information   |
| Evaluation:                | Partial botanic and agronomic evaluation   |
| Documentation:             | Manual   |

POLAND

National Department of Plant Genetic Resources  
Plant Breeding and Acclimatization Institute  
Radzików near Warsaw  
05-870 Blonie

Telephone: Warsaw 55 26 11/4  
Telex: 812914 IHAR PL  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | M. Górski  |
| Details of collection:     | <u>Vicia faba</u> , 180 landraces and 370 old cultivars  |
| Maintenance of collection: | As seeds: long-term seed storage at -18°C and medium-term seed storage at 0°C  |
| Duplication of collection: | No information   |
| Availability:              | This Institute acts as the coordinator for the National Gene Bank Programme, to which all requests for exchange of material from Poland should be directed |

POLAND (cont.)

LUPINUS & VICIA

Quarantine: No information

Evaluation: Taxonomic classification, botanical evaluation, resistance to diseases and agronomic characters

Documentation: Computerized

POLAND

Plant Breeding Station  
Wiatrowo  
62-100 Wagrowiec

Telephone: Wagrowiec 210 01  
Telex:  
Cable:

Curator/person in charge: M. Koprowicz

Details of collection: Lupinus albus, 112 landraces and cultivars from Algeria (4), Egypt (6), GDR (1), Greece (3), Italy (2), Poland (2), Portugal (11), Spain (74), Republic of South Africa (1), UK (1) and USSR (7)  
L. albus var. graecus from Greece  
L. angustifolius, 121 landraces and cultivars from Australia (9), Czechoslovakia (2), GDR (23), Poland (14), Portugal (6), Spain (59), Republic of South Africa (2), Sweden (1), Turkey (3) and USSR (2)  
L. luteus, 307 landraces and cultivars from Australia (3), Denmark (1), GDR (70), Greece (1), Israel (13), Italy (4), Morocco (1), Netherlands (14), Poland (60), Portugal (91), Republic of South Africa (1), Spain (38), USSR (9) and Yugoslavia (1)  
L. atlanticus, 2 from Morocco  
L. cosentinii, 4 from Morocco  
L. digitatus from Morocco  
L. douglasi from USA  
L. elegans from USA  
L. hartwegii from USA  
L. micranthus from Spain and USA  
L. mutabilis, 6 from South America  
L. nanus, 3 from USA  
L. palaestinus from Israel  
L. paniculatus from USA  
L. pilosus  
L. pubescens from USA  
L. succulentus from USA  
L. vavilovii from Yugoslavia

Maintenance of collection: As seeds: from single plants and populations in long-term seed storage at -10°C, in plastic bags, glass jars and tin cans

Duplication of collection: National Department of Plant Genetic Resources, Plant Breeding and Acclimatization Institute (IHAR), Radzikow, Poland

Availability: Freely available

Quarantine: No restrictions for export but phytosanitary certificate required for import of germplasm

Evaluation: Evaluation is complete for the following: growth rhythm, leaf colour, flower colour, seed-coat colour, presence of alkaloids, pod shattering and resistance to Fusarium spp.  
IBPGR Descriptors List will be used in future evaluation

Documentation: Partial and computerized. Catalogue of germplasm available

PORTUGALLUPINUS & VICIA

Núcleo de Melhoramento de Milho (NUM1)  
 Instituto Nacional de Investigação Agrária (INIA)  
 Quinta dos Peões - Gualtar, P-4700 Braga

Telephone: (53) 245 51  
 Telex: 12330 INIA LP  
 Cable: 33506 NUMIP

Curator/person in charge: R. M. Farias

Details of collection: Vicia faba, 7 landraces from Portugal

Maintenance of collection: As seeds: long-term seed storage at -18°C and medium-term seed storage at -2°C and 0°C and 45% RH

Duplication of collection: Istituto del Germoplasma, Bari, Italy

Availability: Freely available in limited quantity

Quarantine: No restrictions for export but imported material must have phytosanitary certificate

Evaluation: None

Documentation: Passport data computerized using IBM P/C

PORTUGAL

Estação Nacional de Melhoramento de Plantas  
 Instituto Nacional de Investigação Agrária (INIA)  
 P-7351 Elvas Codex

Telephone: (068) 628 44 / 628 47  
 Telex: 40189 ENMP P  
 Cable:  
 Telefax: (068) 692 95

Curator/person in charge: M. Barradas

Details of collection: Lupinus spp., 29 accessions  
Vicia faba, 178 accessions  
Vicia spp., 176 accessions  
 All from Portugal

Maintenance of collection: As seeds: short-term seed storage at ambient temperatures

Duplication of collection: Not duplicated

Availability: Freely available in limited quantity

Quarantine: No restrictions for export but imported material must have phytosanitary certificate

Evaluation: None

Documentation: Manual

PORTUGAL

Departamento de Botânica  
 Instituto Superior de Agronomia  
 Tapada da Ajuda, P-1399 Lisbon Codex

Telephone: (1) 63 81 61/2  
 Telex: 44700 ISATEL P  
 Cable:

Curator/person in charge: J. Neves Martins

Details of collection: From Greece, Portugal, Spain and Yugoslavia:  
Lupinus albus

PORTUGAL (cont.)

LUPINUS & VICIA

|                                |  |
|--------------------------------|--|
| Details of collection: (cont.) | <u>Lupinus angustifolius</u><br><u>L. cosentinii</u><br><u>L. hispanicus</u><br><u>L. micranthus</u> |
| Maintenance of collection:     | As seeds: medium-term seed storage at -10°C  |
| Duplication of collection:     | Non-Portuguese lines at Reading University, UK   |
| Availability:                  | Freely available on exchange basis   |
| Quarantine:                    | No restrictions for export but imported material must have phytosanitary certificate                 |
| Evaluation:                    | Numerical taxonomy of <u>L. albus</u>  |
| Documentation:                 | Computerized   |

PORTUGAL

Secção de Genética  
Estação Agronómica Nacional  
Instituto Nacional de Investigação Agrária (INIA)  
P-2780 Oeiras

Telephone: (1) 443 04 42  
Telex: 63698 EAN P  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | M. Mota  |
| Details of collection:     | <u>Lupinus albus</u> , 270 landraces<br><u>L. angustifolius</u> , 240 wild<br><u>L. cosentinii</u> , 11 wild<br><u>L. hispanicus</u> , 108 wild<br><u>L. luteus</u> , 210 landraces and wild<br><u>L. micranthus</u> , 6 wild<br><u>Lupinus</u> spp., 10 accessions<br><br><u>Vicia calcarata</u> , 29 landraces<br><u>V. ervilia</u> , 9 landraces<br><u>V. faba</u> , 69 landraces<br><u>V. sativa</u> , 13 landraces<br><u>V. villosa</u> , 4 landraces<br><u>Vicia</u> spp., 10 unidentified<br>All above material collected from Portugal and Spain from 1980 onwards |
| Maintenance of collection: | As seeds: long-term seed storage at -18°C, in deep-freezers  |
| Duplication of collection: | Partially at Alcalá de Henares, Spain  |
| Availability:              | Freely available in limited quantity   |
| Quarantine:                | No restrictions for export but imported material must have phytosanitary certificate   |
| Evaluation:                | In progress for <u>L. luteus</u> , following IBPGR descriptor list   |
| Documentation:             | Complete and computerized, using Apple II microcomputer. Print-outs are available. For further information see Mota, M. <i>et al.</i> (1982) <u>Lupinus</u> and <u>Secale</u> collecting in Portugal (II). FAO/IBPGR Pl. Genet. Resources Newsl. 50: 22-23 and Mota, M. (1984) Lupin germplasm resources in Portugal. Proceedings of the IIIrd International Lupin Congress, La Rochelle, France 4-8 June 1984   |

SOUTH AFRICA, REPUBLIC OF

LUPINUS & VICIA

Division of Plant and Seed Control  
 Department of Agriculture  
 Private Bag 179  
 Pretoria

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: The Plant Introduction Officer

Details of collection: Lupinus albus, 6 cultivars  
L. angustifolius, 34 cultivars  
L. luteus, 4 cultivars

Maintenance of collection: No information

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

SOUTH AFRICA, REPUBLIC OF

Department of Genetics  
 University of Stellenbosh  
 2600 Stellenbosh

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: J. H. Louw

Details of collection: Lupinus albus, 4  
L. angustifolius, 15  
L. cosentinii, 1  
L. luteus, 2  
L. mutabilis, 6  
 All cultivated introduced germplasm

Maintenance of collection: Short-term seed storage at ambient temperatures

Duplication of collection: No information

Availability: Freely available on exchange basis

Evaluation: Partial

Documentation: Manual

SPAIN

Banco de Germoplasma  
 Instituto Nacional de Investigaciones Agrarias (INIA)  
 P.O. Box 127  
 Finca "El Encin"  
 Alcala de Henares, Madrid

Telephone: (1) 889 69 69 / 70  
 Telex: 48989 INIA E  
 Cable:

Curator/person in charge: The Director

Details of collection: Lupinus albus, 554 landraces from Egypt (61), Portugal (280) and Spain (213)

SPAIN (cont.)

LUPINUS & VICIA

|                                |   |
|--------------------------------|---|
| Details of collection: (cont.) | <p><u>Lupinus angustifolius</u>, 337 wild from Portugal (76) and Spain (261)<br/> <u>L. cosentinii</u>, 14 wild from Portugal (12) and Spain (2)<br/> <u>L. hispanicus</u>, 165 wild from Portugal (25) and Spain (140)<br/> <u>L. luteus</u>, 260 landraces and wild from Portugal (155) and Spain (105)<br/> <u>L. micranthus</u>, 16 wild from Portugal (6) and Spain (10)<br/> <u>L. mutabilis</u>, 19 landraces from Peru<br/> <u>Lupinus</u> spp., 4 accessions from Portugal</p> <p><u>Vicia amphicarpa</u>, 1 wild from Spain<br/> <u>V. calcarata</u>, 55 landraces from Portugal (4) and Spain (46)<br/> <u>V. disperma</u>, 2 wild from Spain<br/> <u>V. ervilia</u>, 81 cultivars from Portugal (11) and Spain (70); 73 other accessions from FRG (1), GDR (68), Hungary (4)<br/> <u>V. faba</u>, 163 cultivars from Portugal (16), Spain (146) and USA (1)<br/> <u>V. laxiflora</u>, 1 wild from Spain<br/> <u>V. lutea</u>, 12 wild from Spain<br/> <u>V. megalosperma</u>, 1 wild from Spain<br/> <u>V. narbonensis</u>, 8 wild from Spain<br/> <u>V. pannonica</u>, 5 wild from Portugal (2) and Spain (3)<br/> <u>V. platysperma</u>, 1 from GDR<br/> <u>V. sativa</u>, 740 landraces and cultivars from Australia (4), Czechoslovakia (20), FRG (3), GDR (296), Greece, (12), Hungary (13), Italy (1), Portugal (99 landraces), Spain (298 landraces) and USA (1 cultivar)<br/> <u>V. villosa</u>, 116 landraces from Australia (1), Czechoslovakia (8), FRG (3), GDR (30), Hungary (5), Italy (1), Portugal (46) and Spain (22)<br/> <u>Vicia</u> spp., 18 wild from Portugal (4) and Spain (14)</p> |
| Maintenance of collection:     | As seeds: long-term seed storage at -18°C and medium-term seed storage at -4°C. Seeds with 5% to 7% moisture content, in glass containers   |
|                                | <u>IBPGR designated base collection for European Lupinus germplasm</u>  |
| Duplication of collection:     | ZIGuK, Gatersleben, GDR; Istituto del Germoplasma, Bari, Italy; Cuzco, Peru and Oeiras, Portugal  |
| Availability:                  | Freely available on exchange basis  |
| Quarantine:                    | No known restrictions   |
| Evaluation:                    | In progress   |
| Documentation:                 | Computerized for passport data using Control Data model Cyber 172 (operating on DOS system). Computerization in progress for evaluation data. For further information see Simpson, M.J.A. and McGibbon, R. (1982) Collection of <u>Lupinus</u> in the Iberian Peninsula. FAO/IBPGR Pl. Genet. Resources Newsl. <u>50</u> : 14-19  |

SPAIN

Servicio de Investigación Agrária  
P.O. Box 22  
Finca "La Orden"  
06080 Badajoz

Telephone: (924) 44 01 50 / 44 01 61  
Telex: 28738 INIA E  
Cable:

Curator/person in charge: M. Martín Bellido

Details of collection: Lupinus albus, 1 wild/weedy, 491 landraces and 39 old cultivars

LUPINUS & VICIA

Details of collection: (cont.) Lupinus angustifolius, 206 wild/weedy and 20 old cultivars  
L. hispanicus, 84 wild/weedy  
L. luteus, 259 wild/weedy and 30 old cultivars  
L. mutabilis, 1234 wild/weedy and 4 old cultivars

Maintenance of collection: Short-term seed storage at ambient temperatures

Duplication of collection: INIA, Cordoba and Banco de Germoplasma, Madrid, Spain

Availability: No information

Quarantine: No information

Evaluation: Partial

Documentation: Manual

SPAIN

Ramon Batlle Vernis, SA  
 Ctra. Nacional 11 s/n  
 Bell-Lloch - Lerida

Telephone: (73) 56 00 00  
 Telex: 52147 B BEL-E  
 Cable:

Curator/person in charge: L. Calvo Bureta

Details of collection: Lupinus albus, 6 landraces, 4 old cultivars and 102 breeding lines  
L. mutabilis, 15 landraces, 3 old cultivars and 124 breeding lines

Vicia faba, 55 breeding lines  
V. faba var. major, 5 landraces and 4 old cultivars  
V. faba var. minor, 15 landraces and 10 old cultivars  
V. sativa, 10 breeding lines

Maintenance of collection: As seeds: short-term seed storage at ambient temperatures and 20% RH

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: High protein content and useful agricultural characteristics

Documentation: No information

SPAIN

Centro de Investigación y Desarrollo  
 Agrario de Córdoba (DGIEA)  
 Junta de Andalucía  
 P.O. Box 240  
 Córdoba

Telephone: (57) 29 38 33  
 Telex: 76686 INIA E  
 Cable:

Curator/person in charge: T. Moreno

Details of collection: Lupinus albus, 40 cultivated  
L. angustifolius, 14 wild  
L. hispanicus, 44 wild  
L. luteus, 9 semi-cultivated

SPAIN (cont.)

LUPINUS & VICIA

Details of collection: (cont.) Vicia faba, 1231 landraces and 125 old cultivars  
V. sativa, 911 landraces and 25 old cultivars  
Vicia spp., 370 wild/weedy and 60 landraces

Maintenance of collection: As seeds: medium-term seed storage at 10°C

Duplication of collection: Badajoz, Spain

Availability: Freely available on exchange basis

Evaluation: Partial agronomic evaluation

Documentation: Manual

SPAIN

Granja-Escuela de Capacitación y  
 Experimentación Agropecuaria  
 Apartado de Correos 26  
 Huelva

Telephone:  
 Telex:  
 Cable:

curator/person in charge: L. Llanes Borrero

Details of collection: From the Province of Huelva and from other countries:  
Lupinus albus, 15 accessions  
L. angustifolius, 6 accessions  
L. luteus, 15 accessions  
L. mutabilis, 400 accessions

Maintenance of collection: As seeds: short-term seed storage at ambient temperatures

Duplication of collection: No information

Availability: Freely available

Quarantine: No information

Evaluation: None

Documentation: Manual

SPAIN

Compañía Española de Cultivos  
 Oleaginosos, SA (CECOSA)  
 C/ Genova, 9, 28004 Madrid

Telephone: (1) 419 12 31  
 Telex: 41076 CECOS  
 Cable:

Curator/person in charge: E. Sobrino

Details of collection: Lupinus spp., 10 landraces and 250 breeding lines  
Vicia faba, 5 landraces and 250 breeding lines

Maintenance of collection: As seeds: short-term seed storage at ambient temperatures

Duplication of collection: No information

Availability: No information

Quarantine: No information

LUPINUS & VICIA

Evaluation: No information

Documentation: No information

SPAIN

Servicio de Investigación Agrária (SIA)  
Junta de Castilla y León  
Cordel de Merinas s/n  
Salamanca

Telephone: 21 42 32 / 21 42 82  
Telex:  
Cable:

Curator/person in charge: M. C. Crespo Martinez / J. L. Jaubrina Alonso

Details of collection: Lupinus albus, 39 landraces and 12 old cultivars  
L. angustifolius, 170 wild/weedy  
L. hispanicus, 74 wild/weedy  
L. hispanicus subsp. bicolor, 120 wild/weedy  
L. luteus, 16 wild/weedy

Maintenance of collection: Short-term seed storage at ambient temperatures

Duplication of collection: No information

Availability: Freely available

Quarantine: No information

Evaluation: Agronomic evaluation for Lupinus albus

Documentation: Manual

SPAIN

Estación Experimental de Aula Dei  
Consejo Superior de Investigaciones  
Científicas (CSIC)  
P.O. Box 202  
Montañana 177  
Zaragoza

Telephone: (976) 70 95 11 / 70 95 36  
Telex:  
Cable:

Curator/person in charge: J. Lasa

Details of collection: Vicia ervilia, 60 old cultivars  
V. sativa, 560 landraces

Maintenance of collection: As seeds: in cold chamber, in sealed bags

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

SWITZERLAND

LUPINUS & VICIA

Eidg. Technische Hochschule  
Institut für Pflanzenbau  
ETH-Zentrum  
Universitätsstrasse, 2  
CH-8092 Zürich

Telephone: (01) 256 38 79  
Telex:  
Cable:

Curator/person in charge: E. R. Keller  
Details of collection: Vicia faba, 90 accessions  
Maintenance of collection: No information  
Location of collection: No information  
Availability: No information  
Quarantine: No information  
Evaluation: No information  
Documentation: No information

SYRIA

International Centre for Agricultural  
Research in the Dry Areas (ICARDA)  
P.O. Box 5466  
Aleppo

Telephone: 50465 or 21750 or 52113  
Telex: 331206 SY or 331208 SY  
Cable: ICARDA, Aleppo

Curator/person in charge: J. Valkoun  
Details of collection: Vicia faba, 3323 landraces, cultivars and breeding lines from Afghanistan (64), Algeria (19), Argentina (1), Australia (1), Austria (1), Canada (213), China (49), Colombia (54), Cyprus (114), Czechoslovakia (28), Ecuador (135), Egypt (135), Ethiopia (541), FRG (224), France (13), GDR (65), Greece (32), Hungary (16), India (4), Indonesia (1), Iran (12), Iraq (59), Italy (122), Jordan (13), Lebanon (35), Mexico (1), Morocco (81), Netherlands (100), Pakistan (1), Palestine (4), Peru (82), Poland (6), Portugal (11), Republic of South Africa (1), Spain (241), Sudan (124), Sweden, (10), Switzerland (3), Syria (91), Tunisia (52), Turkey (213), UK (202), USA (76), USSR (62), Yemen, Democratic Republic (6), Yugoslavia (2) and unknown (3)  
Vicia spp., 2869 accessions donated by: Bari, Italy; GDR and from ICARDA collections  
Maintenance of collection: As seed: of populations, in medium-term seed storage at 4° to 6°C and 12% to 14% RH (293m<sup>3</sup>), in cotton bags  
Duplication of collection: Faba bean germplasm is partially duplicated at the following: University Manitoba, Canada; ICA, Bogota, Colombia; ARI, Nicosia, Cyprus; ARCG, Giza, Egypt; DZ, Debre Zeit, Ethiopia; PGRC/E, Addis Ababa, Ethiopia; COOP, Loir et Cher, France; ZIGuK, Gatersleben, GDR; IFC, Larissa, Greece; NIAVT, Tápiószéle, Hungary; KHUZ, Andimeshk, Iran; RPIP, Karaj, Iran; Istituto del Germoplasma, Bari, Italy; ALAD, Beirut, Lebanon; INRA, Rabat, Morocco; ENMP, Elvas, Portugal; INIAMAD, Madrid, Spain; INIACOR, Cordoba, Spain; ARS, Wad Medani, Sudan; SSA, Upsalla, Sweden; AARI, Izmir, Turkey; PBI, Cambridge, UK; WPBS, Aberystwyth, UK; WRPIS, Pullman, Washington, USA and IT, Institute of Tatvia, USSR  
Availability: Widely available

LUPINUS & VICIA

Quarantine: No known restrictions but phytosanitary certificate required  
 Evaluation: In progress  
 Documentation: Complete and computerized

SYRIA

Genetic Resources Unit (GRU)  
 Agriculture Research Directorate  
 P.O. Box 113  
 Douma  
 Damascus

Telephone: 75 04 01  
 Telex:  
 Cable:

Curator/person in charge: K. S. Obari  
 Details of collection: Vicia faba, 42 landraces, commercial cultivars and breeding lines from Syrian regions and some donated by FAO  
 Maintenance of collection: As seed: of populations, in medium-term seed storage at 4°C and 80% RH, in airtight metal cans of 600g capacity  
 Duplication of collection: No information  
 Availability: Only some samples are available  
 Quarantine: Phytosanitary certificate required for import of seeds  
 Evaluation: No evaluation work has been done  
 Documentation: Complete and manual

TURKEY

Plant Genetic Resources Research Institute  
 Aegean Agricultural Research Institute (AARI)  
 P.O. Box 9  
 35661 Menemen - Izmir

Telephone (542) 115 52  
 Telex: 51293 AARI TR  
 Cable:  
 Telefax: (542) 127 92

Curator/person in charge: A. Tan  
 Details of collection: Vicia faba, 171 landraces from different regions and localities of Turkey, collected by AARI and other missions  
V. montbretii, 2 accessions  
Vicia spp., 738 wild  
 Maintenance of collection: As seeds: long-term seed storage at -15°C, in airtight tin cans. Medium-term seed storage at 0°C. Pre-storage treatment includes reduction of seed moisture content to 6% to 8% before storage in polyethylene covered tin cans. RH not controlled in the cold store. Volume of containers: 170cm<sup>3</sup> for long-term seed storage and 430cm<sup>3</sup> for medium-term seed storage  
 Duplication of collection: Some accessions are held at CIAT, Cali, Colombia and at the Department of Applied Biology, University of Cambridge, UK  
 Availability: Freely available, except those which need multiplication and regeneration  
 Quarantine: All restrictions for import mentioned in the Government order published in State paper of 18.10.1976 No. 15738 must be observed. "Diseases, pests and plants the importation of which is prohibited into the country" Turkish

TURKEY (cont.)

LUPINUS & VICIA

- Quarantine: (cont.) Republic Ministry of Food, Agriculture and Animal Husbandry
- Evaluation: Own descriptor lists used for evaluation. Characterization and/or evaluation studies for certain diseases are being carried out. Certain promising accessions of Vicia faba have also been characterized at AARI
- Documentation: The documentation system at AARI is partly computerized. The data base with the most important descriptors, has already been created for the 1970-80 collections and an Index Seminum has been issued. The computerization programmes in use are mainly EXIR 3.20 and Report Generator

UNION OF THE SOVIET SOCIALIST REPUBLICS

N. I. Vavilov All-Union Scientific Research  
Institute of Plant Industry (VIR)  
42-44, Herzen Street  
190000 Leningrad

Telephone: (314) 22 34 / 48 48  
Telex:  
Cable:

Curator/person in charge: V. I. Krivchenko

Details of collection: Lupinus albus, 9 from Egypt, Italy, Morocco and USSR  
L. angustifolius var. coeruleus, 3 from USSR  
L. angustifolius var. lastowskii, 1 from USSR  
L. angustifolius var. leucanthus, 1 from USSR  
L. angustifolius var. roseus, 2 from USSR  
L. burkei, 1 from USA  
L. cosentini, 1 from Australia  
L. elegans, 2 from Hungary and USSR  
L. hartwegii, 1 from Hungary  
L. hirsutissimus, 1 from USA  
L. luteus var. leucosperma, 4 from USSR  
L. luteus var. maculatus, 6 from Poland and USSR  
L. mutabilis, 4 from Peru and USSR  
L. polyphyllus, 3 from USSR  
L. truncatus, 1 from Moscow region, USSR

Vicia sativa, 47 from USSR  
V. villosa, 10 from USSR  
Vicia spp., 2525

There are many more accessions of Lupinus and Vicia species (including wild forms) in this collection but only the above are listed in the Delectus Seminum 1982-85

- Maintenance of collection: As seeds: long-term seed storage at -10°C, in sealed cans. Medium-term seed storage at 4° to 5°C and 30% RH
- Duplication of collection: Vicia spp. partially duplicated at ZIGuK, Gatersleben, GDR and at ICARDA, Aleppo, Syria
- Availability: No information
- Quarantine: Imported material must go through quarantine
- Evaluation: No information
- Documentation: Manual/partially computerized and complete. A Delectus Seminum is periodically published listing samples available for exchange

UNITED KINGDOM

LUPINUS & VICIA

Royal Botanic Gardens  
Kew and Wakehurst Place  
Ardingly  
Haywards Heath, West Sussex RH17 6TN

Telephone: (0444) 89 27 01  
Telex: 296694 KEWGAR (Atn.  
SEEDBANK)  
Cable:

Curator/person in charge: S. Linington  
Details of collection: Vicia spp., 81 wild/weedy  
Maintenance of collection: As seeds: long-term seed storage at -20°C, seeds with 4% to 6% moisture content, in aluminium cans, universal bottles or glass jars  
Duplication of collection: No information  
Availability: Freely available  
Quarantine: No information  
Evaluation: Germination of dormant seeds, verified identification  
Documentation: Computerized

UNITED KINGDOM

Dept. Agric. Bot., Plant Science Laboratories  
University of Reading  
Whiteknights, Reading RG6 2AS

Telephone: (0734) 87 51 23  
Telex:  
Cable:

Curator/person in charge: P. D. S. Caligari  
Details of collection: Lupinus albus, ca. 300 accessions  
From Greece, Italy, Portugal, Spain and Yugoslavia, wild or cultivated, ca. 70 accessions of:  
L. angustifolius  
L. cosentinii  
L. luteus  
L. pilosus  
L. micranthus  
Maintenance of collection: As seeds: short-term seed storage at ambient temperatures  
Duplication of collection: INRA, Lusignan, France; INIA, Oeiras and Instituto Superior de Agronomia, Lisbon, Portugal; Banco de Germoplasma, Alcala de Henares, Spain and Institute of Horticultural Research, Wellesbourne, UK  
Availability: Available in limited quantity  
Quarantine: Disease status as collected  
Evaluation: L. albus evaluated using numerical taxonomic analysis  
Documentation: Manual. For further details see:  
Williams, Watkin & Simpson, M. J. A. (1984). Final report on germplasm collection of European lupins supported by EEC contract UKL 0471  
Simpson, M.J.A. (1986). Geographical variation in Lupinus albus L. I. Iberia. Z. Pflanzenzüchtung 96: 232-240  
Simpson, M.J.A. (1986). Geographical variation in Lupinus albus L. II North-west Spain, the Nile Valley, the Balkans and Turkey. Z. Pflanzenzüchtung 96: 241-251

UNITED KINGDOM

LUPINUS & VICIA

Institute of Horticultural Research (IHR)  
Wellesbourne, Warwick CV35 9EF

Telephone: (0789) 84 03 82  
Telex:  
Cable:  
Telefax: (0789) 84 25 52

Curator/person in charge:

D. Astley

Details of collection:

Vicia faba, 80 wild relatives and cultivars from several countries

Maintenance of collection:

As seeds: long-term storage at -20°C, in hermetically sealed aluminium foil bags or cans. Seeds with 5% to 6% moisture content. Medium-term seed storage at 0°C, in cotton or paper bags

Duplication of collection:

No information

Availability:

Accessions available on request or exchange basis

Quarantine restrictions:

Imported material must adhere to the quarantine procedures in use at the IHR pathology unit

Evaluation:

IBPGR descriptor lists used where available

Documentation:

Partial and computerized on VAX 11/750 computer (INFO data base management pack predominantly used)

UNITED STATES OF AMERICA

Regional Plant Introduction Station (W-6)  
Washington State University  
Pullman, Washington 99164-6402

Telephone: (509) 335 15 02  
Telex:  
Cable:

Curator/person in charge:

S. M. Dietz

Details of collection:

Lupinus: adsurgens  
L. albicaulis, 2 accessions  
L. albigifrons, 2 accessions  
L. albus, 12 accessions from 8 countries  
L. alpestris, 2 accessions  
L. andersonii, 3 accessions  
L. angustifolius, 5 accessions from 4 countries  
L. arbustus, 2 accessions  
L. argenteus, 8 accessions from 5 countries  
L. aridus  
L. burkei  
L. caudatus, 5 accessions from 2 countries  
L. concinnus, 4 accessions  
L. cruckshanksii  
L. erectus, 3 accessions  
L. evermannii  
L. garfieldensis, 3 accessions  
L. hirsutissimus  
L. hispanicus var. bicolor

LUPINUS & VICIA

Details of collection: (cont.)

Lupinus humicola  
L. latifolius  
L. laxiflorus  
L. leucophyllus, 10 accessions from 3 countries  
L. luteolus  
L. luteus, 7 accessions from 3 countries  
L. micranthus  
L. montigenus  
L. mutabilis, 3 accessions  
L. nanus  
L. nevadensis  
L. nootkatensis  
L. pachylobus  
L. polyphyllus  
L. rivularis  
L. tuber  
L. sericeus, 32 accessions from 5 countries  
L. sivarai  
Lupinus spp., 13 accessions from 7 countries

Vicia faba, 189 accessions from 40 countries

Maintenance of collection: As seeds: medium-term seed storage at 4°C and 38% RH

Availability: Freely available

Quarantine: Imported material must adhere to USDA quarantine regulations

Evaluation: Almost complete

Documentation: Computerized and complete. Catalogue available

UNITED STATES OF AMERICA

|   |            |                     |
|---|------------|---------------------|
| National Seed Storage Laboratory (NSSL) | Telephone: | (303) 484 04 02     |
| Colorado State University               | Telex:     |                     |
| Fort Collins, Colorado 80523            | Cable:     | 237 7401714 DNPA UC |
|   | Telefax:   | (303) 221 14 27     |

Curator/person in charge: S. Eberhart

Details of collection:

Vicia acanitifolia, 6 from Afghanistan and Pakistan, donated by Washington P.I. Station

Vicia articulata, 1 donated by Calif. AES

V. benghalensis, 1 donated by Calif. AES

V. faba, 110 accessions from Afghanistan, Argentina, Australia, China, Colombia, Ethiopia, Greece, Hungary, Iran, Iraq, Italy, Israel, Mexico, Nepal, Pakistan, Peru, Spain, Republic of South Africa, Syria, Turkey, UK, USA, USSR, Yemen and Yugoslavia

V. faba var. minor, 2 donated by Minnesota USDA

V. grandiflora, 1 from USA, donated by Georgia Soil Cons. Service

V. sativa, 6 donated by Calif. Crop Impr. Assoc. and Alabama AES

V. villosa, 1 donated by Nebraska Crop Impr. Assoc.

V. villosa subsp. varia, 1 donated by Calif. Soil Cons. Service

Maintenance of collection: As seeds: long-term seed storage at -14°C, uncontrolled humidity, in hermetically sealed packets. Short-term seed storage at 5°C and controlled RH

Duplication of collection: V. faba partially duplicated at Agway Inc., New York; Comelli, Mo now Keystone; California AES and Washington P.I. Station

UNITED STATES OF AMERICA (cont.)

LUPINUS & VICIA

Availability: Only if not available from other sources

Quarantine: No information

Evaluation: Responsibility for evaluation of all NSSL accessions lies with the USDA Regional Plant Introduction Stations who have active collections of the same material

Documentation: Computerized on UNIVAC 1100/80 (operating on EXEC.8 system). Print-outs available. Ms. L. Sonnen is in charge of accessions

UNITED STATES OF AMERICA

GoM-Smith Seed Co., PNC  
2549 N. Whitendale  
Visalia, California 93277

Telephone:  
Telex:  
Cable:

Curator/person in charge: G. E. Askland

Details of collection: Cultivated:  
Lupinus albus, 160  
L. angustifolius, 50  
L. mutabilis, 200

Wild:  
L. succulentus, 25

Maintenance of collection: No information

Duplication of collection: USDA, Beltsville, Maryland

Availability: Freely available on exchange basis

Quarantine: No information

Evaluation: Partial evaluation including alkaloid testing

Documentation: Manual

# *Phaseolus*



AFGHANISTAN

PHASEOLUS

Crop Germplasm Unit  
Crop Improvement Division  
Plant Research and Soil Science Department  
Darul Aman Agriculture Research Station  
Ministry of Agriculture  
Kabul

Telephone:  
Telex:  
Cable:

Curator/person in charge: M. A. Rashid

Details of collection: Phaseolus vulgaris, 94 local landraces collected in Afghanistan

Maintenance of collection: As seeds: medium-term seed storage at 2°C and 35% to 40% RH

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

ARGENTINA

Instituto Nacional de Tecnología Agropecuária (INTA)  
Casilla de Correo 31  
2700 Pergamino

Telephone:  
Telex: 17518 INTA AR  
Cable:

Curator/person in charge: H. Sosa

Details of collection: Phaseolus vulgaris, 561 introduced accessions of cultivars and improved lines

Maintenance of collection: As seeds: long-term seed storage at -20°C without RH control in hermetically sealed containers. Medium-term storage at 5° to 7°C. Seeds with 7% moisture content

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: Computerized. North Star Horizon (CP/M operating system) used. Print-out available. E. Frutos is in charge of documentation

AUSTRIA

Landwirtschaftlich-chemische  
Bundesversuchsanstalt Linz  
(Agrarbiologische Institut)  
P.O. Box 17  
Wieningerstrasse, 8  
A-4025 Linz

Telephone: (0732) 812 61/3  
Telex:  
Cable:

Curator/person in charge: R. Schachl

Details of collection: Phaseolus spp., 266 landraces

PHASEFOLUS

Maintenance of collection: As seeds: long-term seed storage at -20°C and short-term seed storage at 10° to 15°C. Seeds with 8% moisture content

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

AUSTRIA

Landes Versuchsanlage für  
Spezialkulturen  
A-8551 Wies 88

Telephone: (03465) 24 23  
Telex:  
Cable:

Curator/person in charge: H. Pelzmann

Details of collection: Phaseolus vulgaris, 15 landraces

Maintenance of collection: As seeds: long-term seed storage

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

BELGIUM

Chaire de Phytotechnie des Régions Chaudes  
Faculté des Sciences Agronomiques de L'Etat à Gembloux  
B-5800 Gembloux

Telephone: (081) 62 21 44  
Telex:  
Cable:

Curator/person in charge: R. Maréchal

Details of collection: Phaseolus acutifolius var. acutifolius, 30 wild  
P. acutifolius var. latifolius, 17 cultivated  
P. acutifolius var. tenuifolius, 10 wild  
P. angustissimus, 2 wild  
P. coccineus subsp. coccineus, 20 cultivated and 42 wild  
P. coccineus subsp. glabellus, 1 wild  
P. coccineus subsp. purpurascens, 4 wild  
P. coccineus subsp. zongolicensis, 2 wild  
P. filiformis, 9 wild  
P. gravanus, 4 wild  
P. hintonii, 5 wild  
P. jalscanus, 1 wild  
P. leptostachyus var. leptostachyus, 23 wild  
P. leptostachyus var. micranthus, 1 wild  
P. lunatus var. lunatus, 73 cultivated  
P. lunatus var. silvestris, 21 wild  
P. maculatus, 13 wild

BELGIUM (cont.)

PHASEOLUS

Details of collection: (cont.)

Phaseolus marchalii, 2 wild  
P. microcarpus, 11 wild  
P. oligospermus, 3 wild  
P. pachyrhizoides, 1 wild  
P. parvius, 3 wild  
P. pauciflorus, 2 wild  
P. pedicellatus var. pedicellatus, 3 wild  
P. pluriflorus, 2 wild  
P. polyanthus, 23 cultivated and 2 wild  
P. polystachios, 3 wild  
P. ritensis, 7 wild  
P. salicifolius, 1 wild  
P. vulgaris, 9 wild from Colombia  
P. vulgaris subsp. aborigineus, 6 wild  
P. vulgaris subsp. vulgaris, 100 cultivate.l  
P. vulgaris var. mexicanus, 7 wild  
P. xanthotrichus, 1 wild  
Phaseolus spp., 2 wild

The above samples originate from the following countries: Afghanistan, Argentina, Australia, Brazil, Burundi, Cameroon, Chad, China, Colombia, Congo, Costa Rica, Côte d'Ivoire, Cuba, Ecuador, France, Guatemala, Guyana, India, Iran, Japan, Kenya, Laos, Liberia, Mexico, Netherlands, Nigeria, Pakistan, Panama, Philippines, Romania, Rwanda, Senegal, Sri Lanka, Surinam, Tanzania, Togo, Trinidad, Turkey, Uruguay, USA, Venezuela, Zaire and Zimbabwe

Maintenance of collection:

As seeds: long-term seed storage at -20°C. Seeds with 5% to 6% moisture content, in airtight aluminium foil packets

IBPGR designated base collection for wild species of Phaseolus germplasm

Duplication of collection:

Partially at CIAT, Cali, Colombia; IITA, Ibadan, Nigeria; G. Freytag (TARS/USDA), Mayaguez, Puerto Rico

Availability:

Available in limited quantity, provided sufficient seed is available (requests limited to 10/30 seeds per sample)

Quarantine:

No known restrictions

Evaluation:

Evaluation in progress

Documentation:

Passport data completely computerized

BELGIUM

Station des Cultures Fruitières et  
 Maraichères  
 Centre de Recherches Agronomiques de l'Etat  
 Chaussée de Charleroi , 234  
 B-5800 Gembloux

Telephone: (081) 61 29 35  
 Telex: 59165 CENTRAGRO GEMBLoux  
 Cable:

Curator/person in charge:

A. Monin

Details of collection:

Phaseolus vulgaris, 150 old cultivars

Maintenance of collection:

As seeds: long-term seed storage at -20°C and 5% to 5% RH, in airtight aluminium foil packets. Seeds with 6% to 7% moisture content

Duplication of collection:

No information

Availability:

Available in limited quantity

PHASEOLUS

Quarantine: No known restrictions  
 Evaluation: Evaluation in progress  
 Documentation: Passport data completely computerized

BELGIUM

Jardin Botanique National de Belgique  
 Domein van Bouchout  
 B-1860 Meise

Telephone: (02) 269 39 05  
 Telex:  
 Cable:

Curator/person in charge: E. Lammens  
 Details of collection: Phaseoleae, 130 wild/weedy and 42 old cultivars  
 Maintenance of collection: As seeds: long-term seed storage at -20°C, in glass bottles and short-term seed storage at 15°C and 10% RH  
 Duplication of collection: No information  
 Availability: No information  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: No information

BRAZIL

Centro Nacional de Recursos Genéticos (CENARGEN)  
 Empresa Brasileira de Pesquisas Agropecuárias (EMBRAPA)  
 C.P. 10.2372  
 70.770 Brasília D.F.

Telephone: 2724203/2720253/: 142717  
 Telex: (061)1622 or 273-0100  
 Cable:

Curator/person in charge: J. Silva  
 Details of collection: Phaseolus spp., 1800 wild and commercial cultivars  
P. lunatus, 373 accessions  
 (Curator: Maria Magaly V.S. Wetzel)  
 Maintenance of collection: As seeds: long-term seed storage at -18°C, in sealed cans and laminated aluminium foil packets. Seed with 6% to 7% moisture content. This is Brazil's base collection  
 Duplication of collection: No information  
 Availability: Freely available. Requests for germplasm should be sent to the Chief, CENARGEN  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: Computerized on IBM 4341 (operating system OS/VS1). Print-outs are available. E. A. Morales is in charge of documentation

BRAZIL

PHASEOLUS

Centro Nacional de Pesquisas de Arroz e Feijao (CNPAP)  
Empresa Brasileira de Pesquisas Agropecuárias (EMBRAPA)  
Caixa Postal 179  
74.000 Goiania  
Goias

Telephone:  
Telex:  
Cable:

Curator/person in charge: M. J. Havey  
Details of collection: Phaseolus vulgaris, 4202 accessions  
Maintenance of collection: As seeds: short-term seed storage at 10°C and 25% RH  
Duplication of collection: No information  
Availability: Available. Requests for germplasm must be sent to the Chief, CENARGEN  
Quarantine: No information  
Evaluation: No information  
Documentation: No information

BULGARIA

Institute of Plant Introduction  
and Genetic Resources "K. Malkov"  
District of Plovdiv  
BG-4122 Sadovo

Telephone: 22 51 / 22 52  
Telex: 44444 ZOS BG  
Cable:

Curator/person in charge: K. D. Kostov  
Details of collection: Phaseolus vulgaris, 2420 accessions including 500 landraces and the collection held previously at "Maritsa" VCRI, Plovdiv  
Maintenance of collection: As seeds: long-term seed storage at -15°C, in glass jars. Short-term seed storage at 10°C and 50% RH, in paper bags. Seeds with 3% to 7% moisture content  
Duplication of collection: No information  
Availability: Freely available on exchange basis  
Quarantine: No information  
Evaluation: Evaluation is in progress using descriptor lists worked out by the COMECON countries. An Index Seminum is issued at regular intervals  
Documentation: Computerized and complete. The institute has two Apple II plus microcomputers. Print-outs available. I. Lozanov is in charge of documentation. For more information see Kostov, K. and Lozanov, I (1985) National genetic resources programme in Bulgaria. FAO/IBPGR Pl. Genet. Resources Newsl. 62: 28-31

COLOMBIA

Centro Internacional de Agricultura Tropical (CIAT)  
Apartado Aéreo 6713  
Cali

Telephone: (573) 680.111  
Telex: 05769 CIAT CO  
Cable: CINATROP Cali Colombia

Curator/person in charge: D. R. Laing

PHASEOLUS

|                        |  |                   |                  |
|------------------------|--|-------------------|------------------|
| Details of collection: | Cultivated forms:                            | <u>Introduced</u> | <u>Increased</u> |
|                        | <u>Phaseolus acutifolius</u>                 | 136               | 108              |
|                        | <u>P. acutifolius</u> (wild type)            | 59                | 57               |
|                        | <u>P. coccineus</u> subsp. <u>coccineus</u>  | 800               | 238              |
|                        | <u>P. coccineus</u> subsp. <u>polyanthus</u> | 373               | 97               |
|                        | <u>P. lunatus</u>                            | 2391              | 658              |
|                        | <u>P. lunatus</u> (wild type)                | 63                | 40               |
|                        | <u>P. vulgaris</u>                           | 30790             | 17723            |
|                        | <u>P. vulgaris</u> (wild type)               | 344               | 344              |
|                        | Wild forms:                                  |                   |                  |
|                        | <u>P. anisotrichus</u>                       |                   |                  |
|                        | <u>P. filiformis</u>                         |                   |                  |
|                        | <u>P. galactoides</u>                        |                   |                  |
|                        | <u>P. metcalfei</u>                          |                   |                  |
|                        | <u>P. microcarpus</u>                        |                   |                  |
|                        | <u>P. parvulus</u>                           |                   |                  |
|                        | <u>P. pedicellatus</u>                       |                   |                  |
|                        | <u>P. polystachios</u>                       |                   |                  |
|                        | <u>P. ritensis</u>                           |                   |                  |
|                        | <u>P. wrightii</u>                           | <u>85</u>         | <u>34</u>        |
|                        | Total  | 35041             | 19303            |

The collection includes samples from more than 45 countries. The wild species are mainly from Central and South America

Maintenance of collection: As seeds: long-term seed storage at -15° to -20°C, 5% to 8% seed moisture content, 400g in laminated foil bags. Short-term seed storage at 5° to 8°C, 11% to 14% seed moisture content, 800g in plastic jars

IBPGR designated base collection for cultivated Phaseolus germplasm

Duplication of collection: An agreement is underway with CENARGEN, Brazil, for storage of CIAT base collection as a duplicate. Some accessions are also held at Instituto Colombiano Agropecuario (ICA)

Availability: Freely available. All requests will be acknowledged. Usually samples of 50/100 seeds are distributed

Quarantine: Import: CIAT has a special agreement with Colombian agricultural authorities for introduction and quarantine and multiplication of imported germplasm. Export: Phytosanitary certificate is always provided. Shipments are made in accordance with the quarantine procedures of the destination country

Evaluation: Most of the P. vulgaris (increased) so far has been evaluated as per the descriptor list suggested by the IBPGR. Other species are in the initial stages of evaluation-characterization. For further information see Annual Report Bean Programme (1984), Working Document N.7, 1985 available from CIAT

Documentation: Complete and computerized on IBM 4331 (GR. 1 (VM/CMS and DOS/VSE operating systems). Print-outs are available. L. C. Chapas is in charge of documentation

COLOMBIA

Centro Experimental Palmira  
Instituto Colombiano Agropecuario (ICA)  
Apartado Aéreo 233  
Palmira Valle

Telephone:  
Telex:  
Cable:

Curator/person in charge: G. Bastidas

COLOMBIA (cont.)

PHASEOLUS

|                            |  |
|----------------------------|--|
| Details of collection:     | <u>Phaseolus vulgaris</u> , 911 varieties and 28 improved lines from Colombia, Brazil, Cuba, Ecuador, Mexico, Peru and Venezuela |
| Maintenance of collection: | As seeds: short-term seed storage at 10° to 15°C and 60% to 75% RH, in plastic containers  |
| Quarantine:                | <u>Phaseolus</u> may be imported with phytosanitary certificate and only if free from common mosaic virus                        |
| Evaluation:                | In progress  |
| Documentation:             | Partial and manual   |

COSTA RICA

Unidad de Recursos Genéticos  
 Centro Agronomico Tropical de Investigación  
 y Enseñanza (CATIE)  
 Apartado 74  
 Turrialba

Telephone: 56 64 31 / 56 01 69  
 Telex: 8005 CATIE CR  
 Cable: CATIE Turrialba

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | H. Frömberg  |
| Details of collection:     | <u>Phaseolus acutifolius</u> , 9<br><u>P. coccineus</u> , 91<br><u>P. dumosus</u> , 44<br><u>P. lunatus</u> , 51<br><u>P. vulgaris</u> , 870<br><u>Phaseolus</u> spp., 511<br>All landraces collected from Central America |
| Maintenance of collection: | As seeds: long-term seed storage at -17°C and medium-term seed storage at 5°C, in hermetically sealed containers with 100 seeds each   |
| Duplication of collection: | <u>Phaseolus</u> spp. duplicated at CIAT, Cali, Colombia   |
| Availability:              | Freely available   |
| Quarantine:                | Phytosanitary certificate essential  |
| Evaluation:                | Partially evaluated. Further evaluation in progress  |
| Documentation:             | Partial and computerized on IBM 4331 Model 1 (VM/CMS operating system). Print-outs are available. C. A. Domain is in charge of documentation   |

CUBA

Instituto de Investigaciones Fundamentales  
 en Agricultura Tropical (INIFAT)  
 Alejandro de Humbolt  
 Santiago de las Vegas, La Habana

Telephone:  
 Telex:  
 Cable:

|                            |   |
|----------------------------|---|
| Curator/person in charge:  | R. Martínez Viera                         |
| Details of collection:     | <u>Phaseolus lunatus</u> , 834 accessions |
| Maintenance of collection: | In cold store                             |
| Duplication of collection: | At ZIGuK, Gatersleben, GDR                |

PHASEOLUS

|                |   |
|----------------|---|
| Availability:  | No information  |
| Quarantine:    | No information  |
| Evaluation:    | In progress   |
| Documentation: | Computerized for passport data (32 descriptors), conservation (13 descriptors) and variable numbers of evaluation and characterization measurements |

CZECHOSLOVAKIA

SLOVOSIVO  
Research Institute of Plant Production  
Bratislavská Cesta, 122  
921 68 Piešťany

Telephone: Piešťany 223 11 / 12  
Telex:  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | M. Pastorek  |
| Details of collection:     | <u>Phaseolus vulgaris</u> , 545 landraces and commercial cultivars from 30 countries   |
| Maintenance of collection: | As seeds: short-term seed storage at ambient temperatures (active collection)  |
| Duplication of collection: | 169 commercial cultivars held at the Research and Plant Breeding Institute for Technical Crops and Legumes, Šumperk; Research Station Uherský Ostroh. Curator: P. Hofírek                          |
| Availability:              | Freely available. Requests for material should be addressed to Head, Department of Genetic Resources, Research Institute for Crop Production, 16106 Praha 6-Ruzyne 507. Person in charge: I. Bares |
| Quarantine:                | No known restrictions  |
| Evaluation:                | No information   |
| Documentation:             | Partial and manual. Index Seminum available. Other details in research reports edited by Research Institute for Crop Production  |

CZECHOSLOVAKIA

Research and Breeding Institute of Technical  
Crops and Legumes at Šumperk-Temenice  
687 24 Uherský Ostroh

Telephone: (Uherské Hradiště) 914 31  
Telex:  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | E. Píppalová                               |
| Details of collection:     | <u>Phaseolus vulgaris</u> , 173 accessions |
| Maintenance of collection: | Short-term seed storage                    |
| Duplication of collection: | No information                             |
| Availability:              | No information                             |
| Quarantine:                | No information                             |
| Evaluation:                | No information                             |
| Documentation:             | No information                             |

ECUADOR

PHASEOLUS

Estación Experimental Santa Catalina  
 Instituto Nacional de Investigaciones  
 Agropecuarias (INIAP)  
 km 18, Panamericana Sur  
 Apartado 340, Santa Catalina

Telephone: 317-035 / 317-115  
 Telex:  
 Cable:

Curator/person in charge: C. Cristobal

Details of collection: Phaseolus spp., 860 local landraces

Maintenance of collection: As seeds: medium-term seed storage at 0° to 2°C, in laminated aluminium foil packets

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

ECUADOR

Instituto de Ciencias Naturales  
 Universidad Central  
 Apartado 633, Quito

Telephone: 523-710  
 Telex:  
 Cable:

Curator/person in charge: A. Ortega

Details of collection: Phaseolus vulgaris, 1336 local landraces and cultivars

Maintenance of collection: As seeds: medium-term seed storage at 0° to 5°C, in plastic bags and aluminium foil containers

Duplication of collection: INIAP, Santa Catalina

Availability: Available in limited quantity

Quarantine: No known restrictions

Evaluation: Botanical and morphological data only

Documentation: Partial and manual. Computerization in progress

ETHIOPIA

Plant Genetic Resources Centre (PGRC)  
 Institute of Agricultural Research  
 P.O. Box 30726, Addis Ababa

Telephone: 18 03 81  
 Telex: 21361 GTZ ET  
 Cable: GENE BANK, Addis Ababa

Curator/person in charge: M. Worede

Details of collection: Phaseolus spp., 263 landraces from Ethiopia

Maintenance of collection: As seeds: long-term seed storage -10°C. Seeds with 4% to 7% moisture content. Medium-term seed storage 4°C and 30% to 40% RH, in hermetically sealed aluminium foil bags. For details see Krauss, A. (1983) ILCA Newsl. 4: 9-12

PHASEOLUS

Duplication of collection: Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG

Availability: Freely available

Evaluation: In progress using IBPGR descriptor lists. For more details see Engels, J.M.M. (1985) FAO/IBPGR Plant Genet. Resources Newsl. 61: 13-18

Documentation: Computerized and in progress operating on HP 125 microcomputer (CP/M system). HP 3000 computer using database management system "MINISIS" belonging to ILCA is also being utilized. In future inter computer link ups will be installed. J. Engels is in charge of documentation

FEDERAL REPUBLIC OF GERMANY

Institut für Pflanzenbau und Pflanzenzüchtung (FAL) Telephone: (0531) 59 66 00 / 01  
 Bundesallee, 50 Telex:  
 D-3300 Braunschweig Cable: LANDFORSCHUNG, Völknerode

Curator/person in charge: M. Dambroth

Details of collection: Phaseolus acutifolius, 2 wild from USSR  
P. aureus, 20 populations from Iran  
P. coccineus, 2 cultivars from FRG  
P. lunatus, 2 cultivars from USSR  
P. phyllanthus, 1 from Italy  
P. vulgaris, 3 wild from Tunisia; 46 populations from Iran; and 77 cultivars from Iraq (1), FRG (1), Netherlands (1), USSR (40) and unknown origin (34)  
P. vulgaris subsp. vulgaris, 5 from Mexico  
P. vulgaris subsp. vulgaris var. nanus, 52 landraces from FRG; 278 cultivars from FRG (100), France (2), Netherlands (49), UK (6), USA (8) and unknown (113); and 17 other accessions from FRG (2), Mexico (7) and unknown (8)  
P. vulgaris subsp. vulgaris var. vulgaris, 50 landraces from Austria (1), Chile (1) and FRG (48); 22 cultivars from FRG (14), Netherlands (1) and unknown (7)  
Phaseolus spp., 13 accessions from Yemen

Maintenance of collection: As seeds; long-term seed storage at -10 C. Seeds with 4% to 8% moisture content, in airtight tins

IBPGR designated base collection for European Phaseolus germplasm

Duplication of collection: No information

Availability: Freely available in limited quantity

Quarantine: No known restrictions

Evaluation: Partial evaluation has been done

Documentation: Computerized. Passport data and other information are available from L. Seidewitz, FAL, FRG

GERMAN DEMOCRATIC REPUBLIC

PHASEOLUS

Zentralinstitut für Genetik und  
Kulturpflanzenforschung (ZIGtk)  
Corensstrasse, 3, DDR-4325 Gatersleben

Telephone: Gatersleben 50  
Telex: 42558 KUPFGA DDR  
Cable:

Curator/person in charge: Ch. Lehmann

Details of collection: Phaseolus spp., 4376 accessions  
P. acutifolius, 5 accessions  
P. coccineus, 128 accessions  
P. coccineus var. albiflorus, 11 accessions  
P. coccineus var. bicolor, 1 accession  
P. coccineus subsp. coccineus, 7 accessions  
P. coccineus var. nubronanus, 1 accession  
P. lunatus, 22 accessions  
P. vulgaris, 3696 accessions  
P. vulgaris subsp. vulgaris var. nanus  
Lutei with Fäden (62)  
without Fäden (120)  
Virides with Fäden (328)  
without Fäden (348)  
P. vulgaris subsp. vulgaris var. vulgaris  
Lutei with Fäden (10)  
without Fäden (19)  
Virides with Fäden (168)  
without Fäden (64)

Maintenance of collection: As seeds: long-term seed storage at -10°C, in sealed glass jars. Medium-term seed storage at 0°C and 30% RH

Duplication of collection: No information

Availability: Available

Quarantine: No known restrictions

Evaluation: No information

Documentation: Complete and manual. Computerization in progress. Index Seminum is available

GHANA

Crop Science Department  
University of Ghana  
P.O. Box 44, Legon (near Accra)

Telephone:  
Telex:  
Cable:

Curator/person in charge: Head of Department

Details of collection: Phaseolus lunatus, 8 landraces from Ghana

Maintenance of collection: As seeds: medium-term seed storage 5°C in polythene bags. Regeneration yearly

Duplication of collection: No information

Availability: Freely available in limited quantity

Quarantine: Phytosanitary certificate necessary

Evaluation: Evaluation is being carried out for yield and disease resistance

Documentation: Partial and manual

GHANAPHASEOLUS

Plant Introduction and Exploration Section  
Crops Research Institute  
P.O. Box 7, Bunso

Telephone:  
Telex:  
Cable:

Curator/person in charge: S. O. Bennett-Lartey

Details of collection: Phaseolus lunatus, 193 landraces from Ghana

Maintenance of collection: As seeds: long-term seed storage at -24°C in deep-freezers, in aluminium foil containers

Duplication of collection: CIAT, Cali, Colombia

Availability: Freely available

Quarantine: Phytosanitary certificate required

Evaluation: Samples evaluated according to IBPGR descriptor lists

Documentation: Manual. Passport and characterization data are available

GREECE

Field Crops and Pastures Institute  
Ministry of Agriculture  
Larissa

Telephone: (041) 23 97 11  
Telex:  
Cable:

Curator/person in charge: H. C. Costopoulou

Details of collection: Phaseolus vulgaris, 166 landraces and 244 old cultivars

Maintenance of collection: As seeds: long-term seed storage at -15° to -18°C

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

GREECE

Greek Gene Bank  
North Greek Agricultural Research Centre  
P.O. Box 105 14, 541 10 Thessaloniki

Telephone: (031) 49 15 44  
Telex:  
Cable:

Curator/person in charge: A. Zamanis

Details of collection: Phaseolus spp., 256 mainly landraces and a few commercial cultivars from Greece

Maintenance of collection: As seeds: long-term seed storage at -20°C, in airtight metal cans. Medium-term seed storage at 2°C and 30% RH, in laminated foil packets

Duplication of collection: No information

GREECE (cont.)

PHASEOLUS

Availability: Freely available on exchange basis  
Quarantine: A phytosanitary certificate is necessary for import and export  
Evaluation: Evaluation is being carried out using IBPGR descriptor lists  
Documentation: Complete and computerized on Apple II microcomputer

GUATEMALA

Instituto de Ciencia y Tecnologia Agrícola (ICTA)  
Chimaltenango

Telephone:  
Telex:  
Cable:

Curator/person in charge: J. J. Soto  
Details of collection: Phaseolus vulgaris, 600 local cultivars  
Maintenance of collection: As seeds. Short-term seed storage at ambient temperatures  
Duplication of collection: At CIAT, Cali, Colombia  
Availability: No information  
Quarantine: No information  
Evaluation: No information  
Documentation: No information

HUNGARY

Vegetable Crops Research Institute  
Department of Budatétény, Budapest  
Experimental Station Ujmajor  
Pf. 95  
Park u. 2  
H-1223 Budapest

Telephone: 26 40 60  
Telex: 226088  
Cable:

Curator/person in charge: I. Velich  
Details of collection: Phaseolus spp., 5 wild/weedy, 5 landraces, 7 old cultivars and 40 breeding lines  
Maintenance of collection: Hermetically sealed packages  
Duplication of collection: No information  
Availability: No information  
Quarantine: No information  
Evaluation: No information  
Documentation: No information

**HUNGARY**

**PHASEOLUS**

Research Centre of Seed Growing  
and Trading Enterprise  
Westsik V. u. 4-6  
H-4400 Nyiregyhaza

Telephone: 101 33 / 111 48  
Telex: 73409 VM KUT H  
Cable:

Curator/person in charge: F. Borbely  
Details of collection: Phaseolus spp., 50 landraces and 15 old cultivars  
Maintenance of collection: No information  
Duplication of collection: No information  
Availability: No information  
Quarantine: No information  
Evaluation: No information  
Documentation: No information

**HUNGARY**

Research Centre for Agrobotany  
Institute for Plant Production  
and Qualification (IPPQ)  
H-2766 Tápiószéle

Telephone: Tápiószéle 41  
Telex: 226981 AGBOT H  
Cable:

Curator/person in charge: A. L. Kiss/A. Szucs/I. Karsai  
Details of collection: Phaseolus spp., 3131 accessions of 7 species  
Maintenance of collection: As seeds: long-term seed storage at -20°C with no RH control, in airtight jars.  
Medium-term seed storage at 0° to 4°C  
Duplication of collection: No information  
Availability: Freely available in limited quantity  
Quarantine: Phytosanitary certificate required  
Evaluation: Partial and in progress  
Documentation: Partial and manual. Computerization in progress

**INDIA**

Indian Institute of Horticultural Research (IHR)  
Hesarghatta  
Bangalore 560 089  
Karnataka

Telephone: 32486/085.534  
Telex:  
Cable: HORTSEARCH Bangalore

Curator/person in charge: K. L. Chadha  
Details of collection: Phaseolus vulgaris, 1700 local landraces and primitive cultivars  
Maintenance of collection: No information  
Duplication of collection: At NBPGR's Regional Station at Shimla

INDIA (cont.)

PHASEOLUS

|                |  |
|----------------|--|
| Availability:  | No information   |
| Quarantine:    | Imported germplasm should be accompanied by a phytosanitary certificate and an import permit. Applications for import permit should be addressed to: Plant Protection Adviser to the Government of India, Directorate of Plant Protection, Quarantine and Storage, N.H. IV, Faridabad 121 001, India |
| Evaluation:    | No information   |
| Documentation: | No information   |

INDONESIA

National Biological Institute  
P.O. Box 110  
Bogor

Telephone:  
Telex:  
Cable: DIRBIONAS Bogor

|                            |   |
|----------------------------|---|
| Curator/person in charge:  | S. Sastrapradja   |
| Details of collection:     | <u>Phaseolus lunatus</u> , 3846 accessions from several countries   |
| Maintenance of collection: | As seeds: long-term seed storage at -18°C and short-term seed storage at 5°C and 50% RH. S. E. Pratigny is in charge of storage |
| Duplication of collection: | No information  |
| Availability:              | Freely available  |
| Quarantine:                | No known restrictions   |
| Evaluation:                | In progress using IBPGR descriptor list   |
| Documentation:             | Manual. Computerization is due to commence  |

IRAN

Seed and Plant Improvement Institute (SPII)  
Ministry of Agriculture and Rural Development  
Mand-Abad  
Karadj

Telephone:  
Telex:  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | Parviz Vojdani   |
| Details of collection:     | <u>Phaseolus vulgaris</u> , 274 accessions collected in Iran   |
| Maintenance of collection: | As seeds: long-term seed storage at -20°C, in airtight metal cans with about 500g seed   |
| Duplication of collection: | Some accessions duplicated at Istituto del Germoplasma, Bari, Italy, others held at Agricultural Colleges of the Tehran University under warehouse conditions at present |
| Availability:              | Freely available   |
| Quarantine:                | Imported and exported seeds must pass through Iran's quarantine service  |
| Evaluation:                | Preliminary evaluation has been carried out on most of the samples. More detailed evaluation in progress   |

PHASEOLUS

Documentation: Partial and manual at present but will be computerized in the near future with IBPGR's assistance

ISRAEL

The Applied Research Institute  
Ben-Gurion University of the Negev  
P.O. Box 1025  
84110 Beer-Sheva

Telephone: (057) 783 82  
Telex: 35770 COIN IL  
Cable:

Curator/person in charge: C. Forgacs

Details of collection: Phaseolus acutifolius, 10

Maintenance of collection: As seeds: medium-term seed storage at 0°C

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

ISRAEL

Israel Gene Bank for Agricultural Crops  
Volcani Centre  
P.O. Box 6  
50-250 Bet-Dagan

Telephone: (03) 98 04 58  
Telex: 341118 BXTV IL  
Cable:

Curator/person in charge: M. Zur

Details of collection: Phaseolus spp., 350 commercial cultivars and breeders' lines from Afghanistan, Australia, Chile, Colombia, Costa Rica, Ecuador, Ethiopia, Guatemala, Hawaii (USA), Honduras, India, Iran, Italy, Kenya, Lebanon, Mexico, Netherlands, Peru, Philippines, El Salvador, Taiwan (China), Thailand, Turkey, USA and Yugoslavia

Maintenance of collection: As seeds: long-term seed storage at -10°C, in aluminium containers

Duplication of collection: No information

Availability: Freely available

Quarantine: Phytosanitary certificate essential for import

Evaluation: Most of the material has been evaluated

Documentation: Partial and computerized

ITALY

PHASEOLUS

Istituto Sperimentale per l'Orticoltura  
Via Cavallegeri, 25  
I-84098 Pontecagnano (Salerno)

Telephone: (089) 38 12 52/38 12 93  
Telex:  
Cable:

Curator/person in charge: A. Ferraro

Details of collection: Phaseolus vulgaris, 9 wild/weedy and 30 old cultivars

Maintenance of collection: Room with controlled temperature

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: Crop biology, physiology and protection. Genetics breeding, agronomical techniques of widespread horticultural species

Documentation: No information

ITALY

Istituto di Miglioramento Genetico  
e Produzione delle Sementi  
Via Pietro Giuria, 15  
I-10126 Turin

Telephone: (011) 68 39 69  
Telex:  
Cable:

Curator/person in charge: P. Belletti

Details of collection: Phaseolus coccineus, 13 landraces and 10 old cultivars  
P. lunatus, 1 landraces and 1 old cultivar  
P. vulgaris, 31 landraces

Maintenance of collection: As seeds: long-term seed storage at -20° to -25°C, in plastic containers

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: Growth habit, yield, morphological characters of fruit and seed and disease resistance

Documentation: No information

JAPAN

Department of Genetic Resources  
Germplasm Storage Centre  
National Institute of Agrobiological Resources  
Tsukuba Science City, Yatabe, Ibaraki 305

Telephone: (02975)-6-8368  
Telex:  
Cable: NIARTSUKUBA Yatabe

Curator/person in charge: Shinji Watanabe

Details of collection: Phaseolus vulgaris

Maintenance of collection: As seeds: long-term seed storage at -10°C and medium-term seed storage at -1°C and 30% RH, in aluminium foil packets and vacuum sealed cans

PHASEOLUS

Duplication of collection: No information

Availability: Not available

Evaluation: No information

Documentation: Complete and computerized. NEC model ACOS-77/800 II is used. K. Kumagai is in charge of documentation

KENYA

National Horticultural Research Station  
P.O. Box 220  
Thika

Telephone:  
Telex:  
Cable:

Curator/person in charge: The Director

Details of collection: Phaseolus spp., 1125 landraces and 105 breeders' lines from Kenya; 6 commercial cultivars from Kenya and Uganda; and 476 other accessions

Maintenance of collection: As seeds: long-term seed storage at -20°C in deep-freezers (0.7m<sup>3</sup>)

Duplication of collection: University of Nairobi, Kenya and CIAT, Cali, Colombia

Availability: Freely available

Quarantine: Import with phytosanitary certificate from bacterial wilt free zones only

Evaluation: Preliminary evaluation in progress and characterization has been largely done

Documentation: Partially documented manually

MEXICO

Instituto Nacional de Investigaciones Agrícolas (INIA)  
Insurgentes Sur 694, Col. del Valle  
Codigo Postal 03100  
Apartado Postal 6-882 y 6-883  
Mexico 6 D.F.

Telephone: 687.7647 or 687.7631  
Telex:  
Cable:

Curator/person in charge: F. Cardenas Ramos

Details of collection: Phaseolus acutifolius, 243 primitive cultivars and 46 wild  
P. coccineus, 1200 primitive cultivars and 135 wild  
P. lunatus, 580 primitive cultivars and 30 wild  
P. vulgaris, 7900 primitive and commercial cultivars and 415 wild from Mexico and other countries  
Phaseolus spp., 21 unidentified wild species  
Most accessions collected in Mexico

Maintenance of collection: As seed: of populations in medium-term seed storage at -2°C and 30% RH, in glass jars

Duplication of collection: Some accessions duplicated at CIAT, Cali, Colombia

Availability: Available but restrictions on exchange of commercial cultivars

MEXICO (cont.)

PHASEOLUS

Quarantine: No known restrictions  
Evaluation: Nearly 70% of the accessions have been evaluated  
Documentation: Partially computerized. IBM 370/3145 model 2 used (OS/VS1 system)

MOROCCO

Station Centrale des Plantes Fourragères  
Institut National de la Recherche Agronomique (INRA)  
P.O. Box 415  
Rabat

Telephone:  
Telex: 31702 DRAM  
Cable:

Curator/person in charge: B. Sakr  
Details of collection: Phaseolus vulgaris 98 selections from INRA; and 217 varieties from Algeria, Bulgaria, France, Germany, Switzerland and Turkey  
Maintenance of collection: As seeds: no special storage provided at present but deep-freezers with IBPGR assistance to be installed  
Duplication of collection:: Some at ICARDA, Aleppo, Syria  
Quarantine: No known restrictions  
Evaluation: Evaluated for agronomical and phenological characters  
Documentation: Partial and manual

NETHERLANDS

Plant Breeding Company Cebeco-Handelsraad  
P.O. Box 139  
NL-8200 AC Lelystad

Telephone: (03202) 244  
Telex:  
Cable:

Curator/person in charge: A. J. Bouvman  
Details of collection: Phaseolus vulgaris, 5  
Maintenance of collection: As seeds: medium-term seed storage at 3°C and 40% RH  
Duplication of collection: No information  
Availability: No information  
Quarantine: No information  
Evaluation: Disease and lodging resistance, quality and winter hardiness  
Documentation: No information

NETHERLANDS

Institute for Horticultural Plant Breeding (IVT)  
P.O. Box 16  
Mansholtlaan, 15  
NL-6700 AA Wageningen

Telephone: (08370) 191 23  
Telex: 75044 DLOWA NL  
Cable:

Curator/person-in-charge: I. W. Boukema

PHASEOLUS

- Details of collection: Phaseolus acutifolius, 10  
P. coccineus, 20 accessions from Latin America  
P. vulgaris, 1000 primitive cultivars, commercial cultivars and landraces mainly from Europe, Latin America and USA
- Maintenance of collection: As seeds: long-term seed storage at -18°C and 20% to 30% RH
- Duplication of collection: Latin American germplasm duplicated at CIAT, Cali, Colombia
- Availability: Available in limited quantity
- Quarantine: No known restrictions
- Evaluation: Part of the collection has been evaluated for resistance to common bean mosaic virus, bean yellow mosaic virus, Xanthomonas phaseoli and Pseudomonas phaseolicola
- Documentation: Partial and manual

PERU

Programa de Investigación en Hortalizas  
 Universidad Nacional Agraria (UNA)  
 Apartado Aéreo 456  
 La Molina, Lima

Telephone: 35.20350  
 Telex:  
 Cable:

- Curator/person in charge: M. S. G. del Carpio R.
- Details of collection: Phaseolus lunatus, 50 local varieties from Peru-Costa  
P. polyanthus, 18  
P. vulgaris, 1500 cultivars, wild, local varieties and breeders' lines from Peru-Sierra
- Maintenance of collection: As seeds: short-term seed storage at 10°C and 50% RH
- Duplication of collection: This collection is partially duplicated at some of the Institutes in the Andean Zone. P. polyanthus at Hermilio Valdizan (Curator: A. Chávez)
- Availability for exchange: Freely available
- Quarantine: No information
- Evaluation: Evaluation has been carried out on morpho-agronomic characters
- Documentation: Manual and partial

PHILIPPINES

National Plant Genetic Resources Laboratory (NPGRL)  
 Institute of Plant Breeding (IPB)  
 College of Agriculture  
 University of the Philippines at Los Baños (UPLB)  
 College, Laguna 3720

Telephone: 2298  
 Telex:  
 Cable: NPGRL IPB UPLB LAGUNA

- Curator/person in charge: N. C. Altoveros
- Details of collection: Phaseolus lunatus, 515 accessions from Indonesia and Philippines  
P. vulgaris, 495 accessions from Angola, Australia, Belgium, Burundi, Canada, Colombia, Costa Rica, Denmark, France, Indonesia, Iran, Japan, Mexico, Netherlands, Nicaragua, Philippines, Poland, Puerto Rico, Romania, Spain,

PHILIPPINES (cont.)

PHASEOLUS

|                                |  |
|--------------------------------|--|
| Details of collection: (cont ) | Sweden, Turkey, USA, USSR, and Zaire   |
| Maintenance of collection:     | As seeds: long-term seed storage at -20°C (45m <sup>3</sup> ), medium-term seed storage at 4° to 5°C and 60% RH. Active collection at 0°C, in airtight glass containers. Seed moisture content below 6%                  |
| Duplication of collection:     | Some accessions of <u>Phaseolus vulgaris</u> have been duplicated at ISABU, Burundi; CIAT, Colombia; CATIE, Costa Rica; RPIP, Iran; Yokohama Plant Protection Station, Japan; ISAR, Rwanda; INIA, Spain and INEAC, Zaire |
| Availability:                  | Freely available   |
| Quarantine:                    | Phytosanitary certificate and import permit required   |
| Evaluation:                    | In progress. Agronomic and physiological studies have been initiated   |
| Documentation:                 | Partial and computerized using IBM 370 model 135 (OS/VS1 operating system). Passport data available. N. G. Manicpic is in charge of documentation  |

POLAND

|  |   |
|--|---|
| National Department of Plant Genetic Resources<br>Plant Breeding and Acclimatization Institute (IHAR)<br>05-870 Blonie<br>Radzików (near Warsaw) | Telephone: (4822) 55 26 11/14<br>Telex: 812914 IHAR PL<br>Cable:  |
| Curator/person in charge:  | St. Góral   |
| Details of collection:   | <u>Phaseolus</u> spp., 26 landraces and commercial cultivars mostly from the European countries                                 |
| Maintenance of collection:   | As seeds: long-term seed storage at -18°C and medium-term seed storage at 0°C, in glass jars and hermetically sealed metal cans |
| Duplication of collection:   | No information  |
| Availability for exchange:   | Freely available  |
| Quarantine:  | No known restrictions   |
| Evaluation:  | Information on passport data, characterization and preliminary evaluation available   |
| Documentation:   | Partial and computerized on PDP 11/34a (RSX-11M operating system). DATATRIEVE-11 software used                                  |

PORTUGAL

|   |   |
|---|---|
| Núcleo de Melhoramento de Milho (NUMI)<br>Instituto Nacional de Investigação Agrária (INIA)<br>Quinta dos Peões - Gualtar<br>P-4700 Braga | Telephone: (53) 245 51<br>Telex: 737 28<br>Cable: 33506 NUMI P  |
| Curator/person in charge:   | R. M. Farias  |
| Details of collection:  | <u>Phaseolus coccineus</u> , 14 landraces from Portugal<br><u>P. vulgaris</u> , 354 landraces from Portugal |

PHASEOLUS

- Maintenance of collection: As seeds: long-term seed storage at -18°C and medium-term seed storage at -2°C and 0°C and 45% RH
- Duplication of collection: Istituto del Germoplasma, Bari, Italy
- Availability: Freely available in limited quantity
- Quarantine: No restrictions for export but imported material must have phytosanitary certificate
- Evaluation: None
- Documentation: Computerized using IBM PC. For further information see Mota, M. *et al.* (1982) Zea and Phaseolus collecting in Portugal (I). FAO/IBPGR Pl. Genet. Resources Newsl. 50: 20-21

PORTUGAL

Secção de Genética  
Estação Agronómica Nacional  
Instituto Nacional de Investigação Agrária (INIA)  
P-2780 Oeiras

Telephone: (1) 443 04 42  
Telex: 63698 EAN P  
Cable:

- Curator/person in charge: M. Mota
- Details of collection: Phaseolus coccineus, 22 landraces from Portugal; and 6 accessions from Spain  
P. vulgaris, 559 landraces from Portugal; and 189 accessions from Spain  
Phaseolus spp., 190 accessions from Portugal (9) and Spain (181)
- Maintenance of collection: As seeds: long-term seed storage at -18°C, in deep-freezers
- Duplication of collection: Partially at Braga, Portugal and INIA, Spain
- Availability: Freely available in limited quantity
- Quarantine: No restrictions for export but imported material must possess phytosanitary certificate
- Evaluation: In progress
- Documentation: Computerized using Apple II microcomputer. Print-outs are available. For further information see Mota, M. *et al.* (1982) Zea and Phaseolus collecting in Portugal (I). FAO/IBPGR Pl. Genet. Resources Newsl. 50: 20-21

ROMANIA

Genetic Resources Section  
Research Institute for Cereal  
and Industrial Crops (ICCP)  
Jud. Calarasi  
8264 Fundulea

Telephone: (90) 15 08 05 / 13 70 62  
Telex: 11394 ASAS R  
Cable: ICCPT Fundulea 8264 R

- Curator/person in charge: Gh. Popa
- Details of collection: Phaseolus vulgaris, 52 botanical species, 159 landraces and 1264 breeding material mostly from European countries
- Maintenance of collection: As seeds: short-term seed storage at ambient temperatures
- Duplication of collection: No information

ROMANIA (cont.)

PHASEOLUS

Availability: Freely available  
 Quarantine: Normal restrictions  
 Evaluation: Accessions are partially evaluated  
 Documentation: Partial and manual

SENEGAL

Centre pour Développement de l'Horticulture  
 Maraîchage et Amélioration des Légumes  
 Institut Senegalais de Recherches Agricoles (ISRA)  
 Boite Postal 154  
 Dakar

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: Ndiaga Cisse  
 Details of collection: Phaseolus acutifolius, 39 cultivars from USA  
P. junatus, 23 cultivars from Cape Verde (1), unknown origin (22)  
 Maintenance of collection: As seeds: short-term seed storage at 10°C (active collection)  
 Duplication of collection: ICRISAT, India and IITA, Ibadan, Nigeria  
 Availability: Freely available  
 Quarantine: No known restrictions  
 Evaluation: The collection has been evaluated for morphological, physiological and yield characters. Also resistance to bruchides  
 Documentation: Manual and partial

SPAIN

Banco de Germoplasma  
 Instituto Nacional de Investigaciones Agrarias (INIA)  
 P.O. Box 127  
 Finca "El Encin"  
 Alcala de Henares, Madrid

Telephone: (1) 889 69 69 / 70  
 Telex: 48989 INIA E  
 Cable:

Curator/person in charge: The Director  
 Details of collection: Phaseolus coccineus, 6 landraces from Portugal (1), Spain (5)  
P. vulgaris, 1007 cultivars from Portugal (297) and Spain (710); 82 accessions from USSR (32) and unknown origin (50)  
 Maintenance of collection: As seeds: long-term seed storage at -18°C and medium-term seed storage at -4°C. Seed moisture content 5% to 7%, in vial glass jars  
 Duplication of collection: Ziguk, Gatersleben, GDR; Istituto del Germoplasma, Bari, Italy; Cuzco, Peru and Oeiras, Portugal  
 Availability: Freely available on exchange basis  
 Quarantine: No known restrictions

PHASEOLUS

Evaluation: Partial morpho-agronomic evaluation  
 Documentation: Computerized for passport data

TANZANIA

Northern National Centre for  
Phaseolus Bean Research  
 Lyamungu Research Institute  
 P.O. Box 3004  
 Moshi

Telephone: Moshi 44 11  
 Telex:  
 Cable: Scientific, Moshi

Curator/person in charge: Koinange  
 Details of collection: Phaseolus vulgaris, 1348  
 Maintenance of collection: As seeds: short-term seed storage at ambient temperatures, in paper bags  
 Duplication of collection: Tanzania Agricultural Research Organization (TARO)  
 Availability: No information  
 Quarantine: Import of material through Plant Quarantine Station of Kenya  
 Evaluation: Adaptation, disease resistance and yield potential characters  
 Documentation: Manual

TOGO

Direction de la Recherche Agronomique (DRA)  
 Boite Postale 2318  
 Cacavelli  
 Lomé

Telephone: 210043  
 Telex:  
 Cable:

Curator/person in charge: T. B. Djaneye  
 Details of collection: Phaseolus lunatus, 17 primitive cultivars  
P. vulgaris, primitive cultivars  
 Material collected in Togo  
 Maintenance of collection: As seeds: medium-term seed storage at 5° to 10°C and 90% RH, in plastic and aluminium bags  
 Duplication of collection: Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières (IRAT), Mali and at IITA, Ibadan, Nigeria  
 Availability: Freely available to research institutes and students  
 Quarantine: Phytosanitary certificate required for export and import  
 Evaluation: In progress  
 Documentation: Manual and complete

TURKEY

PHASEOLUS

Plant Genetic Resources Research Institute  
Aegean Regional Agricultural Research Institute (AARI)  
P.O. Box 9  
35661 Menemen - Izmir

Telephone: (542) 115 52  
Telex: 51293 AARI TR  
Cable:  
Telefax: (542) 127 92

Curator/person in charge: A. Tan

Details of collection: Phaseolus coccineus, 12 landraces and primitive cultivars  
P. vulgaris, 883 accessions  
Phaseolus spp., 6 accessions  
All accessions from different regions and localities of Turkey, collected by AARI and other missions

Maintenance of collection: As seeds: long-term seed storage at -15°C, in airtight tin cans. Medium-term seed storage at 0°C. Pre-storage treatment includes reduction of seed moisture content to 6% to 8%, in polyethylene covered tin cans. RH is not controlled in the cold store. Volume of containers: 170cm<sup>3</sup> for long-term seed storage and 430cm<sup>3</sup> for medium-term seed storage

Duplication of collection: Some accessions of Phaseolus spp. are held at CIAT, Cali, Colombia and at the Department of Applied Biology, University of Cambridge, UK

Availability: Freely available, except for those needing multiplication and regeneration

Quarantine: All restrictions for import mentioned in the order of Government published in State Paper of 18.10.1976 No. 15738 must be observed. "Diseases, pests and plants the importation of which is prohibited into the country" Turkish Republic Ministry of Food, Agriculture and Animal Husbandry

Evaluation: Own descriptor lists used for evaluation. Characterization and/or evaluation studies for certain diseases are being carried out on part of the P. vulgaris collections. Some accessions have been evaluated for resistance to ascochyta blight. Refer to the following: Acikgöz, N. (1982) Studies determination of sources and inheritance of resistance to ascochyta blight of chickpea Ascochyta blight (Pass.) Labr. Ph.D. Thesis, Aegean University, Turkey. A part of the Phaseolus collection has been evaluated at AARI, CIAT and Department of Applied Biology, University of Cambridge, UK

Documentation: The documentation system at AARI is partly computerized. The data bank with the most important descriptors, has already been created for the 1970-80 collections and an Index Seminum has been issued. EXIR system running on IBM S-4341 computer is used

UNION OF THE SOVIET SOCIALIST REPUBLICS

N. I. Vavilov All-Union Scientific Research Institute  
of Plant Industry (VIR)  
42-44, Herzen Street  
190000 Leningrad

Telephone: (314) 22 34 / 48 48  
Telex:  
Cable:

Curator/person in charge: V. I. Krivchenko

Details of collection: Phaseolus acutifolius var. brunneus, 1 accession  
P. acutifolius var. ochraceus, 1 accession  
P. acutifolius var. ochroleucus, 2 accessions  
P. lunatus, 4 accessions from Somalia, USA and USSR  
P. vulgaris var. ellipticus albus, 5 accessions from USSR

PHASEOLUS

|                                |  |
|--------------------------------|--|
| Details of collection: (cont.) | <p><u>Phaseolus vulgaris</u> var. <u>ellipticus isabellinus nigro-zebrinus</u>, 2 from USSR<br/> <u>P. vulgaris</u> var. <u>ellipticus niger-minor</u>, 1 from USSR<br/> <u>P. vulgaris</u> var. <u>ellipticus ochraceus</u>, 2 from USSR<br/> <u>P. vulgaris</u> var. <u>ellipticus ochroleucus roseo-zebrinus</u>, 4 from USSR<br/> <u>P. vulgaris</u> var. <u>ellipticus ochroleucus vinoso-maculatus</u>, 4 from USSR<br/> <u>P. vulgaris</u> var. <u>oblongus albus</u>, 3 from USSR<br/> <u>P. vulgaris</u> var. <u>oblongus isabellinus</u>, 1 from USSR<br/> <u>P. vulgaris</u> var. <u>oblongus niger</u>, 1 from USSR<br/> <u>P. vulgaris</u> var. <u>oblongus ochroleucus brunneo-maculatus</u>, 1 from USSR<br/> <u>P. vulgaris</u> var. <u>oblongus ochroleucus vinoso-maculatus</u>, 1 from USSR<br/> <u>P. vulgaris</u> var. <u>oblongus vinosus</u>, 1 from USSR<br/> <u>P. vulgaris</u> var. <u>sphaericus albus</u>, 5 from USSR<br/> <u>P. vulgaris</u> var. <u>sphaericus albus minor</u>, 1 from USSR<br/> <u>P. vulgaris</u> var. <u>sphaericus fulvus</u>, 1 from USSR<br/> <u>P. vulgaris</u> var. <u>sphaericus niger</u>, 1 from USSR<br/> <u>P. vulgaris</u> var. <u>sphaericus ochroleucus roseo-maculatus</u>, 5 from USSR<br/> <u>P. vulgaris</u> var. <u>sphaericus roseolo-violaceus</u>, 1 from USSR<br/> <u>P. vulgaris</u> var. <u>ellipticus x compressus vinosus</u>, 1 from USSR</p> <p>There are many more accessions of <u>Cicer</u> and <u>Lens</u> species (including wild forms) in this collection but only the above are listed in the Delectus Seminum 1982-85</p> |
| Maintenance of collection:     | As seeds: long-term seed storage at -10°C, in sealed cans. Medium-term seed storage at 4° to 5°C and 30% RH  |
| Duplication of collection:     | No information   |
| Availability:                  | No information   |
| Quarantine:                    | Imported material must go through quarantine   |
| Evaluation:                    | No information   |
| Documentation:                 | Manual/partially computerized and complete. A Delectus Seminum is periodically published listing samples available for exchange  |

UNITED KINGDOM

|  |  |
|--|--|
| Department of Applied Biology<br>University of Cambridge<br>Pembroke Street<br>Cambridge CB2 3DX | Telephone: (0223) 33 34 00<br>Telex: 81240 CAMSPL G<br>Cable:  |
| Curator/person in charge:  | N. W. Galwey   |
| Details of collection:   | <u>Phaseolus vulgaris</u> , 50 botanical species, 4750 semi-wild landraces (degree of domestication varied), 10 wild species, 200 cultivars. 20% of the samples come from original collections made in the countries of origin, the other 80% come from several donor institutes |
| Maintenance of collection:   | As seeds: medium-term seed storage at 2°C, 10 seeds in laminated aluminium foil packets. Seed moisture content reduced to less than 10% before hermetical sealing (active collection)  |
| Duplication of collection:   | CIAT, Cali, Colombia. Considerable loss from the complete set of duplicates despatched to this centre is believed to have occurred   |
| Availability:  | Available in limited quantity  |
| Quarantine:  | No UK restrictions   |

UNITED KINGDOM (cont.)

PHASEOLUS

Evaluation: Own descriptor list in use. Agronomic evaluation has been carried out of selected samples adapted to high altitudes

Documentation: Computerized and complete using IBM 370/165 computer

UNITED KINGDOM

Institute of Horticultural Research (IHR)  
Wellesbourne, Warwick CV35 9EF

Telephone: (0789) 84 03 82  
Telex:  
Cable:  
Telefax: (0789 84 25 52

Curator/person in charge: D. Astley

Details of collection: Phaseolus coccineus, 100 accessions  
P. vulgaris, 700 accessions  
Samples include wild relatives and cultivars from several countries

Maintenance of collection: As seeds: long-term seed storage at -20°C, in hermetically sealed aluminium foil bags or cans. Medium-term seed storage at 0°C, in cotton or paper bags. Seeds with 5% to 6% moisture content

Duplication of collection: No information

Availability: Accessions available on request or exchange basis

Quarantine: Imported material must go through quarantine procedures usually at the IHR Pathology Unit

Evaluation: IBPGR descriptor lists used where available

Documentation: Partial and computerized on VAX 11/750 computer (INFO data base management pack predominantly used. Own data management system for Phaseolus (see Euphytica 1978, 27: 849-853 and Euphytica 1982, 31: 281-285)

UNITED KINGDOM

Royal Botanic Gardens  
Kew and Wakehurst Place  
Ardingly  
Haywards Heath, West Sussex RH17 6TN

Telephone: (0444) 89 27 01  
Telex: 296694 KEWGAR (Attn. SEEDBANK)  
Cable:

Curator/person in charge: S. Linington

Details of collection: Leguminosae, 600 total accessions from all over the world but particularly from the Mediterranean countries. Wild Leguminosae species about 180 accessions

Maintenance of collection: As seeds: long-term seed storage at -20°C, in glass bottles and aluminium hermetically sealed cans. Seeds dried to 5% to 7% moisture content and kept at 15°C and 15% RH before transfer to long-term seed storage

Duplication of collection: No information

Availability: Freely available to bona fide research institutes

Quarantine: No export restrictions from the UK. Phytosanitary certificates required for Phaseolus germplasm imported into UK

PHASEOLUS

Evaluation: No information  
 Documentation: Print-outs are available

UNITED STATES OF AMERICA

Regional Plant Introduction Station (W-6) Telephone: (509) 335 15 02  
 Washington State University Telex:  
 Pullman, Washington 99164-6402 Cable:

Curator/person in charge: S. M. Dietz

Details of collection: Wild relatives, landraces and primitive cultivars as follows:  
Phaseolus acutifolius, 61 accessions from 10 countries  
P. angustifolius, 2 accessions  
P. anisotrichus, 3 accessions  
P. coccineus, 342 accessions from 22 countries  
P. dumosus  
P. leiosepalus  
P. lignosus  
P. lunatus, 910 accessions from 31 countries  
P. microcarpus, 2 accessions  
P. phyllanthus, 4 accessions from 2 countries  
P. polystachios, 4 accessions  
P. strobilophorus  
P. trilobatus, 2 accessions  
P. tuberosus  
P. vulgaris, 7965 accessions from 94 countries  
P. vulgaris subsp. aborigineus, 2 accessions  
Phaseolus spp., 4 accessions

Maintenance of collection: As seeds: medium-term seed storage at 4°C and 38% RH (active collection)  
 This is USDA base collection for Phaseolus spp.

Duplication of collection: NSSL, Fort Collins, Colorado, USA

Availability: Freely available

Quarantine: Imported material must go through USDA Quarantine Station

Evaluation: Almost complete

Documentation: Computerized and complete. Catalogue available

UNITED STATES OF AMERICA

Department of Horticulture Telephone: (317) 494 13 29  
 Purdue University Telex:  
 West Lafayette, Indiana 47907 Cable:

Curator/person in charge: H. T. Ericsson

Details of collection: Phaseolus lunatus, 300 landraces, commercial cultivars and breeders lines from Brazil and USA

Maintenance of collection: As seeds: medium-term seed storage at 4°C and low relative humidity. This is an active collection

Duplication of collection: CENARGEN, Brazil and USDA, Beltsville, Maryland, USA

UNITED STATES OF AMERICA (cont.)

PHASEOLUS

|                |  |
|----------------|--|
| Availability:  | No information   |
| Quarantine:    | Imported material must go through USDA Quarantine Station  |
| Evaluation:    | Evaluation has been carried out for: photoperiod, growth habit, seed size, seed colour and yield |
| Documentation: | Partial and computerized   |

UNITED STATES OF AMERICA

York State Agricultural Experiment Station  
P.O. Box 462  
Geneva, New York 14456

Telephone: (315) 787 22 22  
Telex: 237 401714 DNPA UC  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | M. H. Dickson  |
| Details of collection:     | <u>Phaseolus</u> spp., 4000 introduced accessions and 3000 breeding lines from USA |
| Maintenance of collection: | As seeds: medium-term seed storage at 2°C and 20% RH, in paper envelopes           |
| Availability:              | Freely available   |
| Quarantine:                | None   |
| Evaluation:                | No information   |
| Documentation:             | Manual   |

UNITED STATES OF AMERICA

National Seed Storage Laboratory (NSSL)  
Colorado State University  
Fort Collins, Colorado 80523

Telephone: (303) 484 04 02  
Telex: 237401714 DNPA UC  
Cable:  
Telefax: (303) 221 14 27

|                           |  |
|---------------------------|--|
| Curator/person in charge: | S. Eberhart  |
| Details of collection:    | <u>Phaseolus acutifolius</u> , 21 accessions from Argentina, Côte d'Ivoire, El Salvador, Guatemala, Mexico, Morocco, Nicaragua, Pakistan, and USA<br><u>P. acutifolius</u> var. <u>latifolius</u> , 3 accessions from Mexico and USA<br><u>P. angustifolius</u> , 1 accession from Mexico<br><u>P. coccineus</u> , 116 accessions from Afghanistan Colombia, Ethiopia, Guatemala, India, Kenya, Mexico, New Zealand, Syria, Turkey, USA and Yugoslavia<br><u>P. dumosus</u> , 1 accession from Mexico<br><u>P. lunatus</u> , 567 accessions from Afghanistan, Argentina, Bolivia, Burundi, Brazil, Cameroon, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, Ethiopia, Guatemala, Haiti, India, Jamaica, Mexico, Morocco, Nigeria, Peru, Spain, USA, USSR, West Africa, West Indies and Zimbabwe<br><u>P. phyllanthus</u> , 2 accessions from Mexico, donated by Washington Plant Introduction Station<br><u>P. trilobatus</u> , 1 accession from Côte d'Ivoire, donated by Washington Plant Introduction Station<br><u>P. vulgaris</u> , 4456 accessions from Afghanistan, Argentina, Australia, Belgium, Bolivia, Brazil, Cameroon, Canada, Chile, China, Christmas Is., Colombia, Congo, Costa Rica, Ecuador, El Salvador, Ethiopia, France, Germany, Guatemala, India, Iran, Italy, Japan, Kenya, Lebanon, Mexico, Nepal, Nicaragua, Netherlands, Norway, Pakistan, Peru, Poland, Portugal, Puerto Rico, Saudi Arabia, |

PHASEOLUS

Details of collection: (cont.) Republic of South Africa, Spain, Sweden, Switzerland, Syria, Tanzania, Turkey, Uganda, UK, USA, USSR, Yemen and Yugoslavia  
P. coccineus x lunatus, 1 hybrid from USA  
Phaseolus vulgaris x coccineus, several hybrids from FRG and USA, donated by Washington Plant Introduction Station; and 1 hybrid from Meader, Rochester, New Hampshire

Maintenance of collection: As seeds: long-term seed storage at -14°C, uncontrolled humidity, in hermetically sealed packets. Short-term seed storage at 5°C and controlled RH

IBPGR designated base centre for cultivated Phaseolus germplasm

Duplication of collection: Some accessions are duplicated at USDA in Colorado, Idaho, Mayaguez (Puerto Rico), New York, Washington, Wyoming; and at the following private companies in the USA: Agrigenetics, IL; Agrow Seed Co., MI; Agway Inc.; Burpee Co.; Campbell Soup Co., N.Y.; Kellogg Seed Co., CA; Crites, Moscow, ID; Farmer Seed Co., Minnesota; Ferry-Morse Seed Co., CA; Gallatin Valley Seed, ID; Harris Co, N.Y.; Hart Seed Co., CT; Hastings Co., GA; Northrup King; Pure Lines Seeds, ID; Rogers Bros., ID; Twilley Seed, MD; Reuter Seed Co., LA; Charter Seed Co., ID; Western Valley Seed Co., ID; Brotherton Seed Co., WA; Cannors Seed Corp, ID; AES at New Hampshire, New York, Oregon, Wisconsin, and Manitoba Experimental Farm and Ottawa Research Station, Ottawa, Canada

Availability: Only if not available from other sources

Quarantine: No information

Evaluation: Responsibility for evaluation of all NSSL accessions lies with the USDA Regional Plant Introduction Stations which have active collections of the same material

Documentation: Computerized inventory available. UNIVAC 1100/80 (EXEC.8 operating system) used. Ms. L. Sonnen is in charge of accessions and documentation

VENEZUELA

Centro Nacional de Investigaciones  
 Agropecuarias (CENIAP)  
 Sección de Leguminosae (Mej. Genético)  
 Apartado 4653  
 Maracay 2101

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: S. A. Ortega Y.

Details of collection: Phaseolus vulgaris, 827 primitive cultivars, commercial cultivars and breeding lines from Brazil, Colombia, Central America, Mexico, Peru and USA; and 221 accessions from Venezuela

Maintenance of collection: As seeds: medium-term seed storage at 5°C and 50% RH, in containers with 50g seed

Duplication of collection: No information

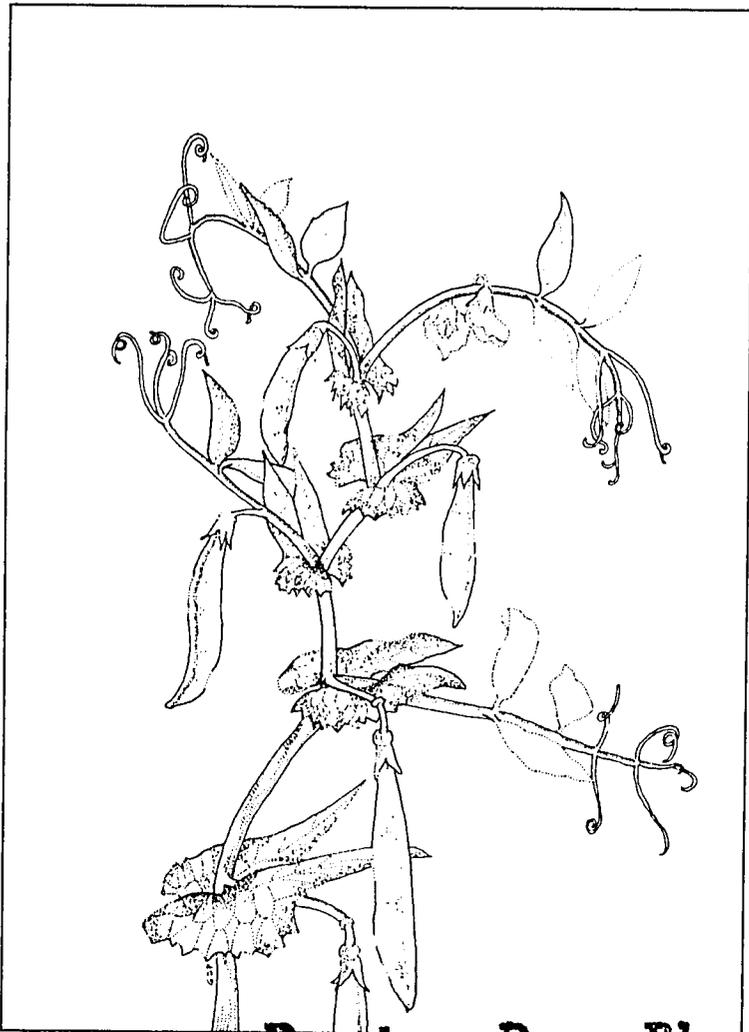
Availability: Freely available in limited quantity (not more than 100g of seeds per sample)

Quarantine: No known restrictions

Evaluation: Evaluation has commenced using descriptors of international institutes specialized in Phaseolus spp.

Documentation: Partial and manual. Computerization is due to commence

*Pisum*



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AFGHANISTAN

PISUM

Crop Germplasm Unit  
Crop Improvement Division  
Plant Research and Soil Science Department  
Danul Aman Agriculture Research Station  
Ministry of Agriculture  
Kabul

Telephone:  
Telex:  
Cable:

Curator/person in charge: M. A. Rashid

Details of collection: Pisum sativum, 33 primitive landraces from Afghanistan

Maintenance of collection: As seeds: medium-term seed storage at 2°C and 35% to 40% RH

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

AUSTRALIA

Commonwealth Scientific & Industrial Research  
Organization (CSIRO)  
G.P.O. Box 1600, Canberra City, ACT 2601

Telephone: (062) 46 49 11  
Telex: 62351 PICAN  
Cable: PLANTIND CANBERRA

Curator/person in charge: R. Pullen

Details of collection: Pisum sativum, 56 accessions

Maintenance of collection: As seeds: medium-term seed storage at 2°C

Duplication of collection: Not duplicated

Availability: Small samples available for research purposes only

Quarantine: Imported material must pass through quarantine

Evaluation: No evaluation data is available

Documentation: Partial and manual

AUSTRALIA

Australian Temperate Field Crops Collection  
Victorian Crops Research Institute  
Private Bag 260, Horsham, Victoria 3400

Telephone: (053) 82 31 41 / 82 20 63  
Telex: 55880 AA CRIHOR  
Cable:

Curator/person in charge: A. McIntyre

Details of collection: Pisum spp.

Maintenance of collection: As seeds of populations. Long-term seed storage at -18°C and short-term seed storage at 2°C

Duplication of collection: No information

PISUM

Availability: Freely available  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: Computerized

NB. This is a new facility and the collections are in the process of being assembled

AUSTRIA

Landwirtschaftlich-chemische  
 Bundesversuchsanstalt Linz  
 (Agrarbiologische Institut)  
 P.O. Box 17  
 Wieningerstrasse, 8  
 A-4025 Linz

Telephone: (0732) 812 61/3  
 Telex:  
 Cable:

Curator/person in charge: R. Schachl  
 Details of collection: Pisum spp., 8 old cultivars  
 Maintenance of collection: As seeds: long-term seed storage at -20°C. Short-term seed storage at 10° to 15°C and seeds with a moisture content of 8%  
 Duplication of collection: No information  
 Availability: No information  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: No information

BELGIUM

Station des Cultures Fruitières et Maraichères  
 Centre de Recherches Agronomiques de L'Etat  
 Chaussée de Charloi, 234  
 B-5800 Gembloux

Telephone: (081) 61 29 35  
 Telex: 59165 CENTRAGRO GEMBOUX  
 Cable:

Curator/person in charge: A. Monin  
 Details of collection: Pisum sativum, 200 accessions from many sources  
 Maintenance of collection: As seeds: long-term seed storage at -20°C and 5% to 6% RH, in airtight aluminium foil packets with seed moisture content reduced to 6% to 7%  
 Duplication of collection: No information  
 Availability: Available in limited quantity  
 Quarantine: No known restrictions  
 Evaluation: Evaluation in progress  
 Documentation: Passport data complete and computerized

BRAZIL

PISUM

Centro Nacional de Recursos Genéticos (CENARGEN)  
Empresa Brasileira de Pesquisas Agropecuárias (EMBRAPA)  
C.P. 10.2372  
70.770 Brasília D.F.

Telephone: 272 42 03 / 272 02 53  
Telex: (061)1622 or 273-0100  
Cable:

Curator/person in charge: J. N. L. Fonseca

Detail of collection: Pisum sativum, 45 accessions

Maintenance of collection: As seeds: long-term seed storage at -18°C. Seeds with 6% to 7% moisture content, in sealed cans and laminated aluminium foil packets

Duplication of collection: No information

Availability: Freely available. Requests for germplasm should be sent to the Chief, CENARGEN

Quarantine: No information

Evaluation: No information

Documentation: Computerized on IBM 4341 (operating system OS/VS1). Print-outs of passport data available. E. A. Morales is in charge of documentation

BULGARIA

"MARITSA" Institute of Vegetable Crops (VCRI)  
32 Brezovsko Shosse  
BG-4003 Plovdiv

Telephone: (034) 512 27 / 522 95  
Telex: 44525 IZK BG  
Cable:

Curator/person in charge: V. Karaivanov

Details of collection: Pisum sativum. 297 accessions from several countries donated as follows: BARC, Beltsville, USA (7); Hirosaki University, Japan (79); University of Tasmania, Australia (30); John Innes Institute, UK (20); INRA, Versailles, France (5); University of Wisconsin, USA (32); Weibullsholm Plant Breeding Institute, Sweden (124); and 8 local cultivars from Bulgaria

Maintenance of collection: As seeds: active collection

Duplication of collection: Institute of Introduction and Plant Resources (IIPR), Sadovo, Bulgaria

Availability: Freely available when enough seed is regenerated

Quarantine: No information

Evaluation: No information

Documentation: No information

BULGARIA

PISUM

Institute of Plant Introduction and  
Genetic Resources "K. Malkov"  
District of Plovdiv  
BG-4122 Sadovo

Telephone: 22 21 / 22 51 / 22 52  
Telex: 44444 ZOS BG  
Cable:

Curator/person in charge: A. Katsarov

Details of collection: Pisum spp., 10 wild/weedy, 150 landraces and 200 old cultivars

Maintenance of collection: As seeds: long-term seed storage at -18°C, in glass containers and short-term seed storage at 10°C and 50% RH

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: Computerized

COLOMBIA

Centro Experimental Palmira  
Instituto Colombiano Agropecuario (ICA)  
Apartado Aéreo 233  
Palmira Valle

Telephone:  
Telex:  
Cable:

Curator/person in charge: G. Bastidas

Details of collection: Pisum sativum, 244 varieties from Europe (mainly from Netherlands and Sweden) and from Argentina

Duplication of collection: No information

Maintenance of collection: As seeds: short-term seed storage at 10° to 15°C and 60% to 75% RH, in plastic containers

Quarantine: Import restrictions. Pisum may be imported with phytosanitary certificate and only if free from common mosaic virus

Evaluation: In progress

Documentation: Partial and manual

CZECHOSLOVAKIA

OSEVA  
Research and Breeding Institute of  
Technical Crops and Legumes  
787 12 Sumperk - Temenice

Telephone: (649) 45 11  
Telex: 66554 VSUTPL C  
Cable: VYZKUM, SUMPERK-TEMENICE

Curator/person in charge: A. Pavelkova

Details of collection: Pisum sativum, 620 landraces and commercial cultivars from 24 countries  
P. sativum subsp. speciosum, 212 landraces and commercial cultivars from 25 countries

CZECHOSLOVAKIA (cont.)

PISUM

|                            |   |
|----------------------------|---|
| Maintenance of collection: | As seeds: short-term seed storage at 15°C and 40% RH (active collection). Sub-zero storage conditions with low seed moisture content will become operational soon |
| Duplication of collection: | No information  |
| Availability:              | Freely available through the Head, Dept. Genetic Resources, Research Institute for Crop Production, 16106 Praha 6-Ruzyne 507. Person in charge: I. Bares          |
| Quarantine:                | No known restriction  |
| Evaluation:                | Evaluated according to national descriptor lists  |
| Documentation:             | Complete and computerized   |

ECUADOR

|   |  |
|---|--|
| Instituto Nacional de Investigaciones Agropecuarias (INIAP)<br>Estación Experimental Santa Catalina<br>Km. 18, Panamericana Sur, Apartado 340, Santa Catalina | Telephone: 317-035 / 317-115<br>Telex:<br>Cable: |
|---|--|

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | E. Cevallos  |
| Details of collection:     | <u>Pisum sativum</u> , 66 local landraces and 74 accessions from other countries |
| Maintenance of collection: | No information   |
| Duplication of collection: | No information   |
| Availability:              | No information   |
| Quarantine:                | No information   |
| Evaluation:                | No information   |
| Documentation:             | No information   |

ECUADOR

|  |  |
|--|--|
| Instituto de Ciencias Naturales<br>Universidad Central<br>Casilla de Correo 633, Quito | Telephone: 523-710<br>Telex:<br>Cable: |
|--|--|

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | A. Ortega  |
| Details of collection:     | <u>Pisum sativum</u> , 330 accessions including 69 local cultivars                             |
| Maintenance of collection: | As seeds: medium-term seed storage at 0° to 5°C, in plastic bags and aluminium foil containers |
| Duplication of collection: | No information   |
| Availability:              | Available in limited quantity  |
| Quarantine:                | No known restrictions  |
| Evaluation:                | Botanical and morphological data only  |
| Documentation:             | Partial and manual. Computerization in progress  |

ETHIOPIAPISUM

Plant Genetic Resources Centre (PGRC)  
Institute of Agricultural Research  
P.O. Box 30726  
Addis Ababa

Telephone: 180381  
Telex: 21361 GTZ ET  
Cable: GENE BANK, Addis Ababa

Curator/person in charge: M. Worede

Details of collection: Pisum sativum, 580 landraces from Ethiopia and 431 other accessions

Maintenance of collection: As seeds: long-term seed storage at -10°C. Seeds with 4% to 7% moisture content. Short-term seed storage at 4°C and 30% to 40% RH, in hermetically sealed aluminium foil bags. For more details see Krauss, A. (1983) ILCA News1. 4: 9-12

Duplication of collection: Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG

Availability: Freely available

Evaluation: In progress using IBPGR descriptor list. For more details see Engels, J.M.M. (1985) FAO/IBPGR Plant Genet. Resources News1. 61: 13-18

Documentation: Computerized and in progress for completion using HP 125 microcomputer. HP 3000 computer using database management system "MINISIS" belonging to ILCA is also being utilized. In future inter computer link ups will be installed. For further details on collections also see PGRC/E. ILCA News1. 8, April 1985

FEDERAL REPUBLIC OF GERMANY

Institut für Pflanzenbau und Pflanzenzüchtung (FAL)  
Bundesallee, 50  
D-3300 Braunschweig

Telephone: (0531) 59 66 00 / 01  
Telex:  
Cable: LANDFORSCHUNG, Völktenrode

Curator/person in charge: M. Dambroth

Details of collection: Pisum sativum: 4 wild types from Tunisia; 24 landraces from FRG; 59 breeding lines from Canada (2), France (1), Finland (24), FRG (3), Poland (5), Syria (1), UK (15), USA (7), USSR (1); 21 cultivars from FRG (7) and unknown origin (14); and 238 other accessions  
P. sativum subsp. abyssinicum, 1 from Sweden  
P. sativum subsp. elatius, 2 accessions from FRG (1), Sweden (1)  
P. sativum convar. speciosum var. arvense, 1 accession  
P. sativum convar. asiaticum var. asiaticum, 3 wild from Afghanistan (1), India (1), USSR (1)  
P. sativum convar. heraticum var. asiaticum, 2 wild from China  
P. sativum var. asiaticum convar. persicum, 2 wild from Afghanistan (1) and Egypt (1)  
P. sativum convar. palestinicum var. elatius, 1 wild from USSR  
P. sativum var. transcaucasicum, 1 from Sweden  
P. sativum subsp. sativum var. episcopi, 17 cultivars from Czechoslovakia (5), France (1), GDR (1), Hungary (2), Netherlands (1), UK (1), USA (1), USSR (5)  
P. sativum var. gratiosum, 11 cultivars from Czechoslovakia (3), Finland (1), Hungary (1), Netherlands (4), unknown origin (2)  
P. sativum var. jessenii, 10 cultivars from Bulgaria (1), France (3), India (1), Netherlands (1), UK (3), USA (1)

## FEDERAL REPUBLIC OF GERMANY (cont.)

## PISUM

## Details of collection: (cont.)

Pisum sativum var. nanoviride, 18 cultivars from Czechoslovakia (7), Denmark (1), Finland (1), Morocco (1), Poland (1), Sweden (1), UK (1), USA (1), USSR (2), Yugoslavia (2)

P. sativum var. ponderosum, 16 cultivars from Bulgaria (1), Czechoslovakia (2), Poland (6), USSR (7)

P. sativum convar. aethiopicum, 4 wild from Ethiopia

P. sativum convar. axiphium, 65 cultivars from FRG (12), France (1), GDR (6), Netherlands (46)

P. sativum convar. mediterraneum, 4 cultivars from Netherlands (3), Poland (1); and 2 wild from USSR

P. sativum convar. medullare, 195 cultivars from France (1), FRG (120), GDR (7), Netherlands (67)

P. sativum convar. melileucum, 2 cultivars from USSR

P. sativum convar. ruminatum, 2 cultivars from USSR

P. sativum convar. sativum, 189 cultivars from Belgium (2), Czechoslovakia (3), FRG (52), France (8), GDR (6), Netherlands (79), Poland (1), UK (1), USSR (8), unknown (29); 80 accessions of unknown origin donated by NIAVT; 2 breeding lines from FRG (1), GDR (1); and 2 wild from USSR

P. sativum convar. sativum var. ponderosum, 1 cultivar from FRG

P. sativum convar. speciosum, 42 accessions from Sweden (4), FRG (4), unknown origin (34); 31 cultivars, from FRG (15), Netherlands (1), Sweden (3), USSR (2), Yugoslavia (3), unknown origin (7); 5 breeding lines from FRG; and 2 populations from USSR (1), unknown origin (1)

P. sativum convar. speciosum var. alveolare, 1 accession from Ethiopia; and 1 cultivar of unknown origin

P. sativum var. angulare, 1 cultivar from USSR

P. sativum var. ankoberense, 1 accession from Greece

P. sativum var. apunctatum, 1 accession from Afghanistan

P. sativum var. arvense, 2 cultivars from USSR

P. sativum var. asmaticum, 1 cultivar from Netherlands

P. sativum var. bimaculatum, 1 accession donated by ZIGuK

P. sativum var. capucinatorum, 2 cultivars from Sweden

P. sativum var. centrali sibiricum, 1 cultivar from Sweden

P. sativum var. commato-semineum, 1 from Afghanistan and 1 from Sweden

P. sativum var. concolor, 2 accession from Ethiopia

P. sativum var. fusco-umbilicatum, 1 cultivar from FRG and 1 of unknown origin

P. sativum var. griseo-coloratum, 1 cultivar

P. sativum var. hibernicum, 1 landrace from Czechoslovakia

P. sativum var. hiemale, 1 from Greece and 1 unknown origin

P. sativum var. melanocarpum, 1 accession

P. sativum var. navale, 1 from Sweden and 1 unknown origin

P. sativum var. nigro-umbilicatum, 1 from Afghanistan and 1 of unknown origin

P. sativum var. nigro-violaceum, 1 accession

P. sativum var. praecox, 1 from USSR

P. sativum var. pseudocroseum, 1 from China

P. sativum var. punctatum, 1 accession

P. sativum var. punctatum, 1 accession

P. sativum var. sanguirivitta, 1 from China

P. sativum var. sanguivittopsis, 1 from Afghanistan

P. sativum var. subharraticum, 1 from Ethiopia

P. sativum var. subrufum, 1 accession

P. sativum var. thebaicum, 1 landrace from Czechoslovakia and 1 cultivar of unknown origin

P. sativum var. violaceo-punctatum, 1 cultivar of unknown origin

P. sativum var. viridipunctatum, 1 from USSR

P. sativum var. zeylanicum, 1 cultivar of unknown origin

17 mutants from FRG (15), Sweden (2)

85 other accessions

## Maintenance of collection:

As seeds: long-term seed storage at -10°C seeds with 4% moisture content

PISUM

Duplication of collection: No information

Availability: Freely available provided sufficient seed is available

Quarantine: No known restrictions

Evaluation: Partial evaluation has been done

Documentation: Computerized. Passport data and other information are available from L. Seidewitz (FAL), FRG

FINLAND

Agricultural Research Centre  
Institute of Plant Breeding  
SF-31600 Jokioinen

Telephone: (916) 834 44  
Telex:  
Cable:

Curator/person in charge: R. Manner

Details of collection: Pisum sativum, 410 accessions

Maintenance of collection: No information

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

GERMAN DEMOCRATIC REPUBLIC

Zentralinstitut für Genetik und  
Kulturpflanzenforschung (ZIGÜK)  
Corrensstrasse, 3  
DDR-4325 Gatersleben

Telephone: Gatersleben 50  
Telex: 42558 KUPFGA GDR  
Cable:

Curator/person in charge: Ch. Lehmann

Details of collection: Pisum sativum, 2369 accessions

P. sativum subsp. sativum convar. axiphium var. compcarpum, 6

P. sativum subsp. sativum convar. axiphium var. dinocarpum, 1

P. sativum subsp. sativum convar. axiphium var. durius, 2

P. sativum subsp. sativum convar. axiphium var. furcans, 1

P. sativum subsp. sativum convar. axiphium var. giganteum, 1

P. sativum subsp. sativum convar. axiphium var. kappertii, 1

P. sativum subsp. sativum convar. axiphium var. melileucum, 10

P. sativum subsp. sativum convar. axiphium var. pedale, 9

P. sativum subsp. sativum convar. axiphium var. procerum, 11

P. sativum subsp. sativum convar. axiphium var. pseudopatris, 1

P. sativum subsp. sativum convar. axiphium var. punctato-marmoratum, 1

P. sativum subsp. sativum convar. axiphium var. viridum, 3

P. sativum subsp. sativum convar. medullare var. balticum, 38

P. sativum subsp. sativum convar. medullare var. ecirrhosum, 1

P. sativum subsp. sativum convar. medullare var. gribowoense, 3

## GERMAN DEMOCRATIC REPUBLIC (cont.)

## PISUM

## Details of collection: (cont.)

*Pisum sativum* subsp. *sativum* convar. *medullare* var. *pervicax*, 218  
*P. sativum* subsp. *sativum* convar. *medullare* var. *pliculium*, 1  
*P. sativum* subsp. *sativum* convar. *medullare* var. *reginae*, 11  
*P. sativum* subsp. *sativum* convar. *medullare* var. *schnebergeri*, 156  
*P. sativum* subsp. *sativum* convar. *medullare* var. *unionis*, 50  
*P. sativum* subsp. *sativum* convar. *medullare* var. *vilmorinii*, 10  
*P. sativum* subsp. *sativum* convar. *medullosaccharatum* var. *körmickei*, 6  
*P. sativum* subsp. *sativum* convar. *medullosaccharatum* var. *prasinum*, 1  
*P. sativum* subsp. *sativum* convar. *medullosaccharatum* var. *majakense*, 2  
*P. sativum* subsp. *sativum* convar. *sativum* var. *atrovirens*, 1  
*P. sativum* subsp. *sativum* convar. *sativum* var. *chloromelan*, 2  
*P. sativum* subsp. *sativum* convar. *sativum* var. *cimitari*, 43  
*P. sativum* subsp. *sativum* convar. *sativum* var. *coronatum*, 5  
*P. sativum* subsp. *sativum* convar. *sativum* var. *episcopi*, 21  
*P. sativum* subsp. *sativum* convar. *sativum* var. *fonticulorum*, 12  
*P. sativum* subsp. *sativum* convar. *sativum* var. *glaucospermum*, 71  
*P. sativum* subsp. *sativum* convar. *sativum* var. *gratosum*, 22  
*P. sativum* subsp. *sativum* convar. *sativum* var. *jessenii*, 36  
*P. sativum* subsp. *sativum* convar. *sativum* var. *mesomelan*, 5  
*P. sativum* subsp. *sativum* convar. *sativum* var. *nananglicum*, 49  
*P. sativum* subsp. *sativum* convar. *sativum* var. *nanoviride*, 68  
*P. sativum* subsp. *sativum* convar. *sativum* var. *ponderosum*, 47  
*P. sativum* subsp. *sativum* convar. *sativum* var. *pseudomesomelan*, 1  
*P. sativum* subsp. *sativum* convar. *sativum* var. *superfluens*, 79  
*P. sativum* subsp. *sativum* convar. *sativum* var. *vitellinum*, 4  
*P. sativum* subsp. *sativum* convar. *sativum* var. *waterlooensis*, 23  
*P. sativum* subsp. *sativum* convar. *speciosum*, 9 populations  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *alveolatum*  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *angulare*, 1  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *ankoberense*, 1  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *arvense*, 3  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *asmaricum*, 1  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *capucinatorum*, 3  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *centrali-sibiricum*, 1  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *commato-semineum*, 1  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *fusco-umbilicatum*, 8  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *griseo-coloratum*, 6  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *ircutianum*, 1  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *navale*, 5  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *nigro-umbilicatum*, 2  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *nigro-violaceum*, 1  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *punctatum*, 1  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *thebaicum*, 7  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *violaceo-punctatum*, 9  
*P. sativum* subsp. *sativum* convar. *speciosum* var. *zeylanicum*, 9

## Maintenance of collection:

As seeds; long-term seed storage at -10°C, in sealed glass jars and short-term seed storage at 0°C and 30% RH

## Duplication of collection:

Some accessions duplicated at VIR, Leningrad, USSR

## Availability:

Freely available

PISUM

Quarantine: No known restrictions  
 Evaluation: No information  
 Documentation: Complete and manual. Computerization in progress with VEB Kombinat Robotron Model KRS 4201. Index Seminum is available

GREECE

Fodder Crops and Pastures Institute  
 Ministry of Agriculture  
 Larissa

Telephone: (041) 23 97 11  
 Telex:  
 Cable:

Curator/person in charge: H. K. Kontsiotu  
 Details of collection: Pisum sativum, 30 landraces, 528 old cultivars and 3 breeding material  
 Maintenance of collection: As seeds: long-term seed storage at -15° to -18°C  
 Duplication of collection: No information  
 Availability: No information  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: No information

GREECE

Greek Gene Bank  
 North Greek Agricultural Research Centre  
 P.O. Box 105 14  
 541 10 Thessaloniki

Telephone: (031) 47 15 44  
 Telex:  
 Cable:

Curator/person in charge: A. Zamanis  
 Details of collection: Pisum sativum, 26 landraces and commercial cultivars from Greece  
 Maintenance of collection: As seeds: long-term seed storage at -20°C, in airtight metal cans and short-term seed storage at 2°C and 30% RH, in laminated foil packets  
 Duplication of collection: No information  
 Availability: Freely available on exchange basis  
 Quarantine: A phytosanitary certificate is necessary for import and export  
 Evaluation: Evaluation is being carried out using IBPGR descriptor list  
 Documentation: Complete and computerized on Apple II microcomputer

HUNGARY

PISUM

Vegetable Crops Research Institute  
Department of Budatétény, Budapest  
Experimental Station Ujmajor  
Pf. 95  
Park u. 2  
H-1223 Budapest

Telephone: 26 40 60  
Telex: 226088  
Cable:

Curator/person in charge: L. Csizmadia  
Details of collection: Pisum spp., 2 wild/weedy, 5 old cultivars and 20 breeding material  
Maintenance of collection: Hermetically sealed packets  
Duplication of collection: No information  
Availability: No information  
Quarantine: No information  
Evaluation: No information  
Documentation: No information

HUNGARY

Department of Plant Breeding  
University of Agricultural Sciences  
H-2103 Gödöllő

Telephone: Gödöllő 1/551  
Telex: 224892  
Cable:

Curator/person in charge: A. Balint  
Details of collection: Pisum sativum, 20 accessions  
Maintenance of collection: No information  
Duplication of collection: No information  
Availability: No information  
Quarantine: No information  
Evaluation: No information  
Documentation: No information

HUNGARY

Research Centre of Seed Growing  
and Trading Enterprise  
Westsik V. u. 4-6  
H-4400 Nyiregyhaza

Telephone: 101 33 / 111 48  
Telex: 73409 VM KUT H  
Cable:

Curator/person in charge: F. Borbely  
Details of collection: Pisum spp., 60 landraces and 25 old cultivars  
Maintenance of collection: No information  
Duplication of collection: No information

PISUM

Availability: No information  
 Quarantine: No information  
 Evaluation: No information  
 Documentation: No information

HUNGARY

Research Centre for Agrobotany  
 Institute for Plant Production  
 and Qualification (IPPQ)  
 H-2766 Tápiószéle

Telephone: Tápiószéle 41  
 Telex: 226981 AGBOT H  
 Cable:

Curator/person in charge: A. L. Kiss / A. Szucs / I. Karsai

Details of collection: Pisum spp., 1223 accessions from many countries  
P. fulvum  
P. sativum  
P. sativum subsp. abyssinicum

Maintenance of collection: As seeds: long-term seed storage at -20°C with no relative humidity control, in airtight jars. Medium-term seed storage at 0° to 4°C with RH control

Duplication of collection: No information

Availability: Freely available, depending on the seed quantities stored

Quarantine: Phytosanitary certificate required

Evaluation: Partial and in progress

Documentation: Partial and manual. Computerization in progress

INDIA

Indian Agricultural Research Institute  
 National Bureau of Plant Genetic Resources (NBPGR)  
 Pusa Complex  
 New Delhi 110 012

Telephone:  
 Telex:  
 Cable: GERMPLASM New Delhi

Curator/person in charge: R. S. Rana

Details of collection: Pisum sativum, 1400 accessions of which many are primitive cultivars from India

Maintenance of collection: As seeds: long-term seed storage at -18°C, in aluminium foil packets

Duplication of collection: 536 accessions will be duplicated at Indian Institute of Agricultural Research, Bangalore, Karnataka, 700 accessions at IARI, New Delhi may also be duplicated

Availability: Freely available

Quarantine: Imported germplasm should be accompanied by a phytosanitary certificate and an import permit. Applications for import permit should be addressed to: Plant Protection Adviser to the Government of India, Directorate of Plant Protection, Quarantine and Storage, N.H. IV, Faridabad 121 001, India

INDIA (cont.)

PISUM

Evaluation: In progress for morpho-agronomic characters at various Regional Stations of NBPGR

Documentation: Manually operated data sheets. Computer facilities at IARI are available. Burroughs Corp. model B-4771 (operating on MCP 6.4 system) is used

ISRAEL

Israel Gene Bank for Agricultural Crops  
Volcani Centre  
P.O. Box 6  
50-250 Bet Dagan

Telephone: (03) 98 04 58  
Telex: 341118 BXTV IL  
Cable:

Curator/person in charge: M. Zur

Details of collection: Pisum sativum, 70 cultivars from Australia, Canada, France, Netherlands and USA

Maintenance of collection: As seeds: long-term seed storage at -10°C, in aluminium containers

Duplication of collection: No information

Availability: Freely available

Quarantine: Phytosanitary certificate essential for import

Evaluation: Most of the material has been evaluated

Documentation: Partial and computerized on IBM 3081 (operating on VM/CMS system)

ISRAEL

Department of Field and Vegetables Crops  
The Levi Eshkol School of Agriculture  
Faculty of Agriculture  
The Hebrew University of Jerusalem  
P.O. Box 12  
Rehovot 76-100

Telephone: (08) 48 12 51  
Telex: 361931 HUAGR IL  
Cable:

Curator/person in charge: A. Dovrat

Details of collection: Pisum sativum, 20 wild/weedy

Maintenance of collection: Short-term seed storage at ambient temperatures

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

ITALY

PISUM

Istituto del Germoplasma  
Consiglio Nazionale delle Ricerche (CNR)  
Via G. Amendola 165/A  
I-70126 Bari

Telephone: (080) 583463 or 583400  
Telex: 810565 CNR BA I  
Cable:

- Curator/person in charge: P. Perrino
- Details of collection: Pisum sativum, 4090 accessions  
Includes 150 accessions collected in Algeria. Significant collections from other north African regions
- Maintenance of collection: As seeds: long-term seed storage at -10°C, in airtight metal cans with silica gel. Medium-term seed storage at 0°C and 40 % RH (72m<sup>3</sup>), in aluminium foil containers  
IBPGR designated base collection for Mediterranean Pisum germplasm
- Duplication of collection: Nordic Gene Bank, Alnarp, Sweden and at Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG. Algerian material also duplicated at Institut de Developpement de Grandes Cultures, Algeria
- Availability: Freely available
- Quarantine: No known restrictions
- Evaluation: Approximately 1000 accessions were multiplied at Gaudio in 1984 as the quantity of seed had become low as a result of distribution
- Documentation: Computerized and partial. IBM S/1 (operating with EDX system) is used. Print-outs available. G. Scippa is in charge of documentation

ITALY

Cattedra di Genetica Agraria  
Facoltà di Agraria  
Università di Napoli  
Via Università, 100  
I-80055 Portici (NA)

Telephone: (081) 775 20 56  
Telex:  
Cable:

- Curator/person in charge: L. M. Monti
- Details of collection: Pisum spp., 4 wild/weedy, 15 old cultivars and 181 breeding material
- Maintenance of collection: As seeds: medium-term seed storage at 4°C and 30% RH
- Duplication of collection: No information
- Availability: No information
- Quarantine: No information
- Evaluation: Storage, protein, genetics and cytogenetics
- Documentation: No information

ITALY

PISUM

Unità Agrobiotecnologie  
Ente Nazionale Energia Atomica (ENEA)  
P.O. Box 2400  
CRE Casaccia  
I-00100 Roma A.D.

Telephone: (06) 694 81  
Telex: 613296 ENEACA I  
Cable: CASACCIA ENEA

Curator/person in charge: F. Saccardo

Details of collection: Pisum sativum, 350 accessions

Maintenance of collection: As seeds: long-term seed storage at -20°C and medium-term seed storage at 0°C

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: Disease resistance, short stature, quality, suitability for mechanical harvesting and stress resistance

Documentation: No information

JAPAN

Germplasm Storage Centre  
Department of Genetic Resources  
National Institute of Agrobiological Resources  
Tsukuba Science City  
Yatabe, Ibaraki 305

Telephone: 02975-6  
Telex:  
Cable: NIARTSUKUBA Yatabe

Curator/person in charge: Shinji Watanabe

Details of collection: Pisum sativum, 13 landraces 81 and breeding lines from Japan; and 18 introductions from China (1), France (1), USA (16)

Maintenance of collection: As seeds: long-term seed storage at -10°C. Medium-term seed storage at -1°C and 30% RH, in aluminium foil packets and vacuum sealed cans

Duplication of collection: No information

Availability: Not available

Evaluation: No information

Documentation: No information

MOROCCO

Station Centrale des Plantes Fourragères  
Institut National de la Recherche Agronomique (INRA)  
P.O. Box 415, Rabat

Telephone:  
Telex: 31702 DRA M  
Cable:

Curator/person in charge: B. Sakr

Details of collection: Pisum sativum, 73 accessions from Bulgaria (2), Canada (1), Chile (1), FRG (2), France (32), Hungary (4), Morocco (3), Netherlands (18), Poland (1), Romania (2), Sweden (3), UK (1), USSR (3); 31 crossings; and 64 other accessions including selected variants from local entries.

PISUM

Maintenance of collection: As seeds: short-term seed storage at ambient temperatures. No special storage at present but deep-freezers with IBPGR assistance to be installed

Duplication of collection: No information

Availability: No information

Quarantine: No known restrictions

Evaluation: Evaluated for agronomical and phenological characters

Documentation: Partial and manual

NETHERLANDS

Plant Breeding Company Cebecco-Handelsraad  
P.O. Box 139  
NL-8200 AC Lelystad

Telephone: (03202) 244  
Telex:  
Cable:

Curator/person in charge: A. J. Bouvman

Details of collection: Pisum sativum, 100 accessions

Maintenance of collection: As seeds: medium-term seed storage at 3°C and 40% RH

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: Diseases and lodging resistance, quality and winter hardiness

Documentation: No information

NETHERLANDS

Centre for Genetic Resources, The Netherlands (CGN)  
P.O. Box 117  
NL-6700 AC Wageningen

Telephone: (08370) 191 12  
Telex: 75044 DLOWA NL  
Cable:

Curator/person in charge: L. J. M. van Soest

Details of collection: Pisum sativum, 200 old cultivars and 266 landraces from Ethiopia, FRG, France, India, Netherlands, Pakistan, Poland, Turkey, UK, Asia and Europe

Maintenance of collection: As seeds: long-term seed storage at -20°C, in sealed laminated foiled packets. Medium-term seed storage at -2° to -4°C and 15% to 20% RH, in sealed laminated foiled packets. Short-term seed storage at ambient temperatures, in envelopes

Duplication of collection: FAL, Braunschweig, FRG; ZIGuK, Gatersleben, GDR; Pakistan Agricultural Research Centre and ICARDA, Aleppo, Syria

Availability: Freely available in limited quantity (100-500 seeds per sample). Regeneration planned in the near future

NETHERLANDS (cont.)

PISUM

Quarantine: Material with mosaic viruses may be restricted for import in the future. All imported seeds must pass through quarantine

Evaluation: Evaluation data available

Documentation: Not yet computerized. Data will be computerized on VAX computer

NETHERLANDS

Institute for Horticultural Plant Breeding (IVT)  
P.O. Box 16  
Mansholtlaan, 15  
NL-6700 AA Wageningen

Telephone: (08370) 191 23  
Telex: 75044 DLOWA NL  
Cable:

Curator/person-in-charge: I. W. Boukema

Details of collection: Pisum sativum, 122 accessions, mostly cultivars from Europe and USA

Maintenance of collection: As seeds: long-term seed storage at -18°C and 20% to 30% RH

Duplication of collection: Latin American germplasm held at CIAT, Cali, Colombia

Availability: Available in limited quantity

Quarantine: No known restrictions

Evaluation: Part of the collection has been evaluated

Documentation: Partial and manual

PERU

Universidad Nacional Agrária (UNA)  
Apartado 456  
La Molina  
Lima

Telephone: 35 20 35  
Telex:  
Cable:

Curator/person in charge: M. S. G. del Carpio R.

Details of collection: Pisum sativum, 380 local landraces from Peru-Sierra and 24 introduced cultivars

Maintenance of collection: As seeds: short-term seed storage at 10°C and 50% RH

Duplication of Collection: This collection is partially duplicated at some of the Institutes in the Andean Zone

Availability: Freely available

Quarantine: No information

Evaluation: Evaluation has been carried out on morpho-agronomic characters

Documentation: Manual and partial

**PHILIPPINES**

**PISUM**

National Plant Genetic Resources Laboratory (NPGRL)  
 Institute of Plant Breeding (IPB)  
 College of Agriculture  
 University of the Philippines at Los Baños (UPLB)  
 College, Laguna

Telephone: 22 98  
 Telex:  
 Cable: NPGRL IPB UPLB LAGUNA

Curator/person in charge: N. C. Altoveros

Details of collection:

Pisum sativum, 811 accessions from Afghanistan, Argentina, Australia, Canada, China, Czechoslovakia, Ethiopia, Finland, France, Germany, Guatemala, Honduras, Hungary, India, Iran, Japan, Mexico, Netherlands, New Zealand, Peru, Philippines, Poland, Spain, Sweden, Switzerland, Syria, Taiwan (China), Turkey, UK, USA, USSR, Yemen and Yugoslavia

Maintenance of collection:

As seeds: long-term seed storage at -20°C (45m<sup>3</sup>), medium-term seed storage at 4° to 5°C and 60% RH, active collection at 0°C, in airtight glass or tin containers. Seeds with 6% moisture content

Duplication of collection:

Some accessions donated by: National Bureau of Plant Genetic Resources (NBPGR) India; Weibullsholm Plant Breeding Institute, Sweden; Aegean Regional Agricultural Research Institute, Turkey and John Innes Institute, UK

Availability:

Freely available

Quarantine:

Phytosanitary certificate and import permit required

Evaluation:

In progress. Agronomic and physiological studies have been initiated

Documentation:

Partial and computerized on IBM 370 model 135 (operating on OS/VS1 system). Passport data are available. N. G. Manicpic is in charge of documentation

**POLAND**

Pisum Gene Bank  
 Laboratory of Pea Breeding and Collection  
 Plant Breeding Station  
 Wiatrowo, 62-100 Wagrowiec

Telephone: Wagrowiec 210 01  
 Telex:  
 Cable:

Curator/person in charge:

K. Czerwinska

Details of collection:

Pisum sativum, 81 wild/weedy, 1246 old cultivars, 310 landraces, 740 mutants and 613 populations from Ethiopia, Afghanistan, Anatolia, Armenia, Asia Minor, Caucasus, China, Crete, Hindukush, Israel, Jordan, Mongolia, Palestine, Paloponnes (Greece), Spain, Poland, Republic of South Africa, Sudan, Syria, Tibet, Turkey, Georgia and Uzbekistan (USSR)

Maintenance of collection:

As seeds of single plants and populations: long-term seed storage at -10°C, in deep-freezers

IBPGR designated centre for Central and East European Pisum germplasm

Duplication of collection:

Central Department for Plant Genetic Resources, Plant Breeding and Acclimatization Institute (IHAR), Radzikow, Poland

Availability:

Freely available

Quarantine:

No restrictions for export but imported material must have phytosanitary certificate

POLAND (cont.)

PISUM

- Evaluation: Taxonomic classification, 40 metric values, description of genotype as per Pisum Genetics Association rules, photo documentation, literature, and linkage studies of new genes have been done
- Documentation: Computerized at the Information Centre, National Department of Plant Genetic Resources, Plant Breeding and Acclimatization Institute (IHAR), Radzikow. For further information see Swiecicki, W.K. (1980) Pea genebank in Poland. FAO/IBPGR Pl. Genet. Resources Newsl. 44: 15-16

PORTUGAL

Secção de Genética  
 Estação Agronómica Nacional  
 Instituto Nacional de Investigação Agrária (INIA)  
 P-2780 Oeiras

Telephone: (1) 443 04 42  
 Telex: 63698 EAN P  
 Cable:

- Curator/person in charge: M. Mota
- Details of collection: Pisum sativum, 104 accessions, mostly landraces from Portugal (32) and Spain (72)  
Pisum spp., 2 accessions
- Maintenance of collection: As seeds: long-term seed storage at -18°C, in deep-freezers
- Duplication of collection: Partially at Alcala de Henares, Spain
- Availability: Freely available in limited quantity
- Quarantine: No restrictions for export but imported material must have phytosanitary certificate
- Evaluation: None
- Documentation: Passport data computerized using Apple II microcomputer. Print-outs available on request

ROMANIA

Genetic Resources Section  
 Research Institute for Cereal  
 and Industrial Crops (ICCPT)  
 Jud. Calarasi  
 8264 Fundulea

Telephone: (90) 15 08 05 / 13 70 62  
 Telex: 11394 ASAS R  
 Cable: ICCPT Fundulea 8264 R

- Curator/person in charge: Gh. Popa
- Details of collection: Pisum sativum, 479 breeding material
- Maintenance of collection: As seeds: short-term seed storage at ambient temperatures
- Duplication of collection: No information
- Availability: Freely available
- Quarantine: Normal restrictions
- Evaluation: Accessions are partially evaluated for: specific disease resistance, precocity, quality, lodging resistance and stress reaction
- Documentation: Partial and manual

**SPAIN**

**PISUM**

Banco de Germoplasma  
 Instituto Nacional de Investigaciones Agrarias (INIA)  
 Finca "El Encin"  
 P.O. Box 127  
 Alcala de Henares

Telephone: (1) 889 69 69/70  
 Telex: 48989 INIA E  
 Cable:

- Curator/person in charge: The Director
- Details of collection: Pisum sativum, 142 cultivars from Portugal (19) and Spain (123)
- Maintenance of collection: As seeds: long-term seed storage at -18°C and medium-term seed storage at -4°C. Seed moisture content 5% to 7%, in glass vial containers
- Duplication of collection: ZIGuK, Gatersleben, GDR; Istituto del Germoplasma, Bari, Italy; Cuzco, Peru and Oeiras, Portugal
- Availability: Freely available on exchange basis
- Quarantine: No known restrictions
- Evaluation: Partial morpho-agronomic evaluation
- Documentation: Computerized for passport data

**SWEDEN**

Nordic Gene Bank for Agricultural and  
 Horticultural Plants (NGB)  
 P.O. Box 41  
 S-23053 Alnarp

Telephone: (046) 150035  
 Telex:  
 Cable:

- Curator/person in charge: E. H. Kjellqvist / S. Blixt
- Details of collection: Pisum sativum, total of 2512 accessions including: 781 cultivars from Argentina (2), Brazil (12), Bulgaria (30), Czechoslovakia (18), Denmark (8), Finland (2), FRG (8), France (8), Hungary (421), Israel (151), Japan (2), New Zealand (4), Poland (6), Scandinavia (13), UK (10), USA (37), USSR (11), unknown origin (38); 410 landraces, from Afghanistan (52), Armenia (2), Balkans (39), Crete (3), Ethiopia (51), France (2), Germany (3), Hungary (1), India (7), Israel (13), Korea (1), Netherlands (6), Portugal (1), Poland (2), Scandinavia (37), Sweden (1), Turkey (28), UK (2), USA (3), USSR (20), Yemen (17), unknown origin (119); 332 cross derivatives for breeding or research; 206 selections; 72 spontaneous mutations and 711 induced mutations  
 This is a world base collection
- Maintenance of collection: As seeds: long-term seed storage at -20°C and 80% to 85% RH, in hermetically sealed glass containers. For distribution 37.5cc aluminium foil bags are used
- IBPGR proposed base centre for world Pisum germplasm
- Duplication of collection: Some accessions duplicated at Istituto del Germoplasma, Bari, Italy and Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG
- Availability: Freely available from Nordic Gene Bank
- Quarantine: No known restrictions
- Evaluation: Has been carried out between 1930 and 1985 at the Weibullsholm Plant Breeding Institute, Cytogenetics Laboratory, S-26124 Landskrona, Sweden

SWEDEN (cont.)

PISUM

Documentation: Completely computerized. Information available on origin, characteristics etc. of individual accessions on request. For further information see Yndgaard, F. (1983) A procedure for packing long-term storage seed. FAO/IBPGR Pl. Genet. Resources Newsl. 54: 28-31

SYRIA

International Centre for Agricultural  
Research in the Dry Areas (ICARDA)  
P.O. Box 5466  
Aleppo

Telephone 50465 or 21750 or 52113  
Telex: 331206 SY or 331208 SY  
Cable: ICARDA, Aleppo

Curator/person in charge: J. Valkoun

Details of collection: Pisum sativum, 3063 landraces, cultivars and breeding lines from Afghanistan (52), Argentina (3), Australia (10), Bolivia (1), Brazil (3), Canada (25), China (4), Czechoslovakia (8), Denmark (8), Ethiopia (339), Finland (6), FRG (155), France (27), GDR (6), Greece (14), Guatemala (3), Hungary (90), India (452), Iran (9), Italy (2), Japan (8), Kenya (2), Mali (2), Mexico (11), Netherlands (242), New Zealand (15), Pakistan (10), Peru (17), Poland (48), Portugal (17), Sudan (15), Sweden (226), Syria (6), Thailand (2), Tunisia (4), Turkey (66), Uganda (7), UK (341), USA (362), USSR (60), North Yemen (3), Yugoslavia (8), unknown origin (374)

Maintenance of collection: As seed populations: medium-term seed storage at 4° to 6°C and 12% to 14% RH (293m<sup>3</sup>), in cotton bags

Duplication of collection:

| <u>Donor</u><br><u>Institute</u> | <u>No. of</u><br><u>accessions</u> | <u>Frequency</u><br><u>percentage</u> |
|----------------------------------|------------------------------------|---------------------------------------|
| USDA, Pullman, Wash., USA        | 1371                               | 44.83                                 |
| John Innes Institute, UK         | 1123                               | 36.72                                 |
| USAID, Ethiopia                  | 236                                | 7.72                                  |
| ALAD, Beirut, Lebanon            | 205                                | 6.70                                  |
| College Seageler, Ethiopia       | 47                                 | 1.54                                  |
| College Westphal, Ethiopia       | 69                                 | 2.26                                  |
| IARI, New Delhi, India           | 7                                  | <u>0.23</u>                           |
| Total                            | 3058                               | 100.00                                |

Availability: Freely available

Quarantine: No known restrictions but phytosanitary certificate required

Evaluation: Evaluation has been carried out for the following characters: Flowering and floral characters: days to 50% flowering, flowering duration, flower colour, days to maturity. Plant characters: plant height, canopy width, branching primary, branches/plant, secondary branches/plant, tertiary branches/plant, growth habit, leaf size. Pod characters: pods/plant, number of seeds/pod, pod dehiscence. Yield characters: biological and seed yield, harvest index. Seed characters: 100-seed weight, seed colour & shape, seed surface roughness, protein content. Susceptibility to cold: at low, medium and high altitude, susceptibility to frost at seedling stage, at pre-flowering stage, susceptibility to iron deficiency and ascochyta blight

Documentation: Complete and computerized for passport and evaluation data. DEC VAX 11/780 and DDPI1/34A (operating on VMS and RSTS/E systems) are used

TURKEYPISUM

Plant Genetic Resources Research Institute  
 Aegean Agricultural Research Institute (AARI)  
 P.O. Box 9  
 35661 Menemen - Izmir

Telephone: (542) 115 52  
 Telex: 51293 AARI TR  
 Cable:  
 Telefax: (542) 127 92

- Curator/person in charge: A. Tan
- Details of collection: Pisum spp., 14 botanical species and 54 landraces
- Maintenance of collection: As seeds: long-term seed storage at -15°C, in airtight tin cans. Medium-term seed storage at 0°C. Pre-storage treatment includes reduction of seed moisture content to 6% to 8% before storage in polyethylene covered tin cans. RH is not controlled in the cold store. Size of containers: 170cm<sup>3</sup> for long-term seed storage and 430cm<sup>3</sup> for medium-term seed storage
- Duplication of collection: No information
- Availability: Freely available, except for those which need multiplication and regeneration
- Quarantine: All restrictions for import mentioned in the order of Government published in State paper of 18.10.1976 No. 15738 must be observed. "Diseases, pests and plants the importation of which is prohibited into the country" Turkish Republic Ministry of Food, Agriculture and Animal Husbandry
- Evaluation: Own descriptor lists used for evaluation. Characterization and/or evaluation studies for certain diseases are being carried out
- Documentation: Partly computerized. The data bank with the most important descriptors, has already been created for the 1970-80 collections and an Index Seminum has been issued. The data management programmes in use are mainly EXIR 3.20 and Report Generator

UNION OF THE SOVIET SOCIALIST REPUBLICS

N. I. Vavilov All-Union Scientific Research  
 Institute of Plant Industry (VIR)  
 42-44, Herzen Street  
 190000 Leningrad

Telephone: (314) 22 34 / 48 48  
 Telex:  
 Cable:

- Curator/person in charge: V. I. Krivchenko
- Details of collection: Pisum fulvum var. integrifoliolatum, wild from Israel  
P. fulvum var. virescens, wild from Israel  
P. sativum subsp. abyssinicum, 1 from Ethiopia  
P. sativum subsp. asiaticum convar. asiaticum var. cinnabarinum 1 from Afghanistan  
P. sativum subsp. asiaticum subvar. indico-marmoratum, 1 from India  
P. sativum subsp. asiaticum subvar. indicum, 1 from India  
P. sativum subsp. asiaticum convar. asiaticum var. jagnobicum, 1 from USSR  
P. sativum subsp. asiaticum convar. heraticum var. ivanovii subvar. ivanovii-punctulatum, 1 from China  
P. sativum subsp. asiaticum convar. heraticum var. ivanovii subvar. ivanovii-fuscum, 1 from India  
P. sativum subsp. asiaticum convar. heraticum var. ivanovii subvar. ivanovii-nigrum, 1 from China  
P. sativum subsp. asiaticum convar. persicum var. jomardii, 2 from Egypt

UNION OF THE SOVIET SOCIALIST REPUBLICS (cont.)PISUM

Details of collection: (cont.)

- Pisum sativum subsp. asiaticum convar. persicum var. nipanicum subvar. nipanicum, 1 from India
- P. sativum subsp. asiaticum convar. persicum var. orientale subvar. orientali-marmoratum, 1 from Afghanistan
- P. sativum subsp. elatus convar. elatus var. elatus subvar. elatus-maculatum, 1 wild from Georgia USSR
- P. sativum subsp. elatus convar. palestinicum var. palestinicum subvar. palestinico-argyraceum, 1 wild from Stavropol Territory, USSR
- P. sativum subsp. sativum convar. aethiopicum var. aethiopicum subvar. aethiopicum, 2 from Ethiopia
- P. sativum subsp. sativum convar. aethiopicum var. angulatum, 1 from Ethiopia
- P. sativum subsp. sativum var. angulatum subvar. asmaricum, 6 from Ethiopia
- P. sativum subsp. sativum convar. axiphium var. coloratum, 3 from GDR, USA and Yugoslavia
- P. sativum subsp. sativum convar. mediterranean var. mediterranean subvar. capucinorum, 2 from Netherlands and Poland
- P. sativum subsp. sativum convar. mediterranean var. mediterranean subvar. capucinorum, 3 from GDR and USSR
- P. sativum subsp. sativum convar. mediterranean var. neerlandicum subvar. neerlandico-fuscum, 1 from Netherlands
- P. sativum subsp. sativum convar. mediterranean var. neerlandicum subvar. neerlandicum, 1 from Netherlands
- P. sativum subsp. sativum convar. mediterranean var. pseudalbiflorum subvar. pseudalbifloro-fuscum, 1 from Netherlands
- P. sativum subsp. sativum convar. mediterranean var. pseudalbiflorum subvar. pseudalbiflorum, 1 from Netherlands
- P. sativum subsp. sativum convar. medullosaccharatum var. nano-pulposum, 1 from USSR
- P. sativum subsp. sativum convar. melileucum var. melileucum, 3 from USSR
- P. sativum subsp. sativum convar. ruminatum var. crispum, 1 from USSR
- P. sativum subsp. sativum convar. ruminatum var. divulgatum subvar. divulgato-bicolor, 7 accessions
- P. sativum subsp. sativum convar. ruminatum var. divulgatum subvar. divulgato-glaucum, 1 from USSR
- P. sativum subsp. sativum convar. ruminatum var. divulgatum subvar. divulgatum, 5 from GDR, Netherlands and USSR
- P. sativum subsp. sativum convar. ruminatum var. ruminatum subvar. pliculum, 1 from Sweden
- P. sativum subsp. sativum convar. ruminatum var. ruminatum subvar. ruminatum, 2 from USSR
- P. sativum subsp. sativum convar. ruminatum var. vilmorinii subvar. vilmorinii, 2 accessions
- P. sativum subsp. sativum convar. sativum var. ponderosum subvar. ponderosum, 15 from Czechoslovakia, GDR and USSR
- P. sativum subsp. sativum convar. sativum var. ponderosum subvar. willichii, 5 from Czechoslovakia, FRG and USSR
- P. sativum subsp. sativum convar. sativum var. subcorymbosum, 1
- P. sativum subsp. sativum convar. speciosum var. bimarginatum, 4 from FRG and GDR
- P. sativum subsp. sativum convar. speciosum var. ircutianum, 1 from USSR
- P. sativum subsp. sativum convar. speciosum var. speciosum subvar. caeruleum, 1 from GDR
- P. sativum subsp. sativum convar. speciosum var. pallidum, 2 from Sweden and USSR
- P. sativum subsp. sativum convar. speciosum var. speciosum subvar. arvense, 7 from Czechoslovakia, FRG, France, GDR and USSR
- P. sativum subsp. sativum convar. speciosum var. speciosum subvar. caeruleum, 8 from Albania, Poland, Romania and USSR

PISUM

|                                |   |
|--------------------------------|---|
| Details of collection: (cont.) | <p><u>Pisum sativum</u> subsp. <u>sativum</u> convar. <u>speciosum</u> var. <u>speciosum</u> subvar. <u>thebaicum</u>, 9 from Czechoslovakia, Finland, GDR and USSR</p> <p><u>P. sativum</u> subsp. <u>sativum</u> convar. <u>speciosum</u> var. <u>tenax</u> subvar. <u>tenax</u>, 1 from USSR</p> <p><u>P. sativum</u> subsp. <u>sativum</u> convar. <u>speciosum</u> var. <u>tenaci-fuscum</u>, 1 from USSR</p> <p><u>P. sativum</u> subsp. <u>sativum</u> convar. <u>speciosum</u> var. <u>visciferum</u>, 1 from France</p> <p><u>P. sativum</u> subsp. <u>sativum</u> convar. <u>vulgare</u> var. <u>coronatum</u> subvar. <u>coronatum</u>, 5 from Canada and USSR</p> <p><u>P. sativum</u> subsp. <u>sativum</u> convar. <u>vulgare</u> var. <u>ecaducum</u> subvar. <u>ecaduco-vitellinum</u>, 2 from USSR</p> <p><u>P. sativum</u> subsp. <u>sativum</u> convar. <u>vulgare</u> var. <u>ecaducum</u> subvar. <u>ecaducum</u>, 4 from USSR</p> <p><u>P. sativum</u> subsp. <u>sativum</u> convar. <u>vulgare</u> var. <u>vulgare</u> subvar. <u>glaucospermum</u>, 25 from Bulgaria, Czechoslovakia, FRG, Finland and USSR</p> <p><u>P. sativum</u> subsp. <u>sativum</u> convar. <u>vulgare</u> var. <u>vulgare</u> subvar. <u>omphalodes</u>, 5 from USSR</p> <p><u>P. sativum</u> subsp. <u>sativum</u> convar. <u>vulgare</u> var. <u>vulgare</u> subvar. <u>vulgare</u>, 19 from USSR</p> <p>There are many more accessions of <u>Pisum</u> species (including wild forms) in this collection but only the above are listed in the Delectus Seminum 1982-85</p> |
| Maintenance of collection:     | As seeds: long-term seed storage at -10°C, in sealed cans. Medium-term seed storage at 4° to 5°C and 30% RH   |
| Duplication of collection:     | No information  |
| Availability:                  | No information  |
| Quarantine:                    | Imported material must go through quarantine  |
| Evaluation:                    | No information  |
| Documentation:                 | Manual/partially computerized and complete. A Delectus Seminum is periodically published listing samples available for exchange   |

UNITED KINGDOM

UK Pea Cultivar Reference Collection  
Department of Agriculture and  
Fisheries for Scotland (DAFS)  
Agricultural Scientific Services  
East Craigs  
Craigs Road, Corstorphine  
Edinburgh EH12 8NJ

Telephone: (031) 339 23 55  
Telex: 727 348 DAFASS G  
Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | N. Green / P. Winfield   |
| Details of collection:     | <u>Pisum sativum</u> , 1700 old cultivars, obsolete cultivars, commercial cultivars and breeders' lines from Europe, Japan, New Zealand, USA and others. Variants found in the above |
| Maintenance of collection: | As seeds: medium-term seed storage at 4°C, uncontrolled RH, in airtight plastic jars with screw caps   |
| Duplication of collection: | Some at Nordic Gene Bank, Alnarp, Sweden and in other collections  |
| Availability:              | Very small quantities of seed restricted to cultivars no longer in commerce  |
| Quarantine:                | Current quarantine regulations for the UK apply  |

UNITED KINGDOM (cont.)

PISUM

**Evaluation:** Material is evaluated in field plots (100 plants) over several years. The genotype has been recorded where possible using typelines from the Nordic Gene Bank. In addition the following characters have been evaluated: Foliage characters: habit, stem bifurcate, leaflets, foliage type, stipules, stipule length, flecking, flecking intensity, leaflet tip shape, dentation, leaf dentation, fasciation, axil ring, foliage colour, leaflet margin. Flower characters: days to flowering, days to last flower, first flowering node first fertile node, no. of flowers, flowers at 2FN. Peduncle: peduncle length, standard width, standard base shape, mucro, keel spot. Pod characters: pod tip shape, pod wall colour, pod wall blue, fresh seed colour, pod curvature, pod length, pod breadth, ovules, 100 seed weight (g), stem length at H3, pod pigment, suture, anthocyanin spots, pod wall, neoplasms, suture strings, yellowish pods, parchment. Seed characters: anthocyanin, furca, enlarged furca, testa marbling, round, dimple, cotyledon colour, starch grains, simple grains, hilum seed spotting, tragacanthi, obscuratum, slit, surface wrinkling and shape

**Documentation:** Complete and computerized

UNITED KINGDOM

John Innes Institute  
Colney Lane, Norwich NR4 7UH

Telephone: (0603) 525 71  
Telex: 957122 JII NOR G  
Cable:

**Curator/person in charge:** P. Matthews

**Details of collection:** Pisum fulvum, 13 accessions  
P. sativum, 2035 accessions  
P. sativum subsp. abyssinicum, 26 accessions  
Origin of accessions as follows: Afghanistan - wild species; China - wild species and primitive cultivars; Colombia - primitive cultivars; Ethiopia - wild species and primitive cultivars; France - primitive cultivars; Greece - primitive cultivars; India - primitive cultivars; Israel - wild species and primitive cultivars; Italy - primitive populations; Nepal - primitive cultivars; Portugal - primitive populations; Spain - primitive cultivars; Sudan - wild species; Tanzania - primitive cultivars; Tibet - wild types; Turkey - wild species and primitive cultivars; USA - cultivars and USSR- primitive cultivars

**Maintenance of collection:** As seeds: medium-term seed storage at 3° to 5°C and 15% RH, in paper packets or polybags. No pre-treatment before storage

**Duplication of collection:** No information

**Availability:** Available to institutes on other countries on request (usually 30 seeds) and on an exchange basis

**Quarantine:** No information

**Evaluation:** Two single plant selections and a sample are maintained for each line. Leaves are being screened for the presence of PSbMV-free germplasm. 70 phenotypic characters are recorded for each line and passport data, origins etc. Computer print-out of evaluation data available

**Documentation:** Computerized on DEC VAX 11/750. Linked with Pisum data bases at Nordic Gene Bank; Istituto del Germoplasma, Bari, Italy; UK Pea Cultivar Collection, Edinburgh, Scotland, UK; Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG and Institute of Agrobotany, Tápíószéle, Hungary

UNITED STATES OF AMERICAPISUM

National Seed Storage Laboratory (NSSL)  
Colorado State University  
Fort Collins, Colorado 80523

Telephone: (303) 484 04 02  
Telex: 237401714 DNPA UC  
Cable:  
Telefax: (303) 221 1427

Curator/person in charge: S. Eberhart

Details of collection: Pisum sativum, 1429 accessions from Afghanistan, Argentina, Australia, Austria, Brazil, China, Canada, Congo, Costa Rica, Czechoslovakia, Ethiopia, Finland, France, Germany, Greece, Guatemala, Guyana, Hungary, India, Indonesia, Iran, Italy, Lebanon, Mali, Mexico, Nepal, Netherlands, New Zealand, Peru, Poland, Spain, Sweden, Syria, Thailand, Turkey, Uganda, UK, USA, USSR and Venezuela  
P. sativum subsp. elatius, 1 from UK  
P. sativum var. arvense, 15 from USA  
P. sativum var. hortense, 4 from Turkey

Maintenance of collection: As seeds: long-term seed storage at -14°C, uncontrolled RH, in hermetically sealed packets. Medium-term seed storage at 5°C with controlled RH

Duplication of collection: Some accessions are duplicated at USDA, New York, Washington, Wyoming; and at following private companies in the USA: Agrow Seed Co., MI; Agway Inc.; Burpee Co.; Campbell Soup Co., N.Y.; Keystone, MO; Crites, Moscow, ID; Farmer Seed Co., Minnesota; Ferry-Morse Seed Co., CA; Gallatin Valley Seed, ID; Harris Co, N.Y.; Hart Seed Co., CT; Hastings Co., GA; Northrup King; Pure Lines Seeds, ID; Rogers Bros., ID; Twilley Seed, MD; Reuter Seed Co., LA; Charter Seed Co., ID; Western Valley Seed Co., ID; Brotherton Seed Co., WA; Cannors Seed Corp, ID; AES at New Hampshire, New York, Oregon, Wisconsin and Manitoba Experimental Farm; Ottawa Research Station, Ottawa, Canada

Availability: Only if not available from other sources

Evaluation: Responsibility for evaluation of all NSSL accessions lies with the USDA Regional Plant Introduction Stations which have active collections of the same material

Documentation: Computerized inventory available. UNIVAC 1100/80 using EXEC.8 operating system is in use. Ms. L. Sonnen is in charge of accessions

UNITED STATES OF AMERICA

Department of Horticultural Sciences  
New York State Agricultural Experiment Station  
Hedrick Hall  
Geneva, New York 14456

Telephone: (315) 787 22 44  
Telex: 937478  
Cable:

Curator/person in charge: D. D. Dolan

Details of collection: Pisum sativum, 2499 accessions including mainly wild species, local varieties, cultivars and breeders' lines  
Pisum spp., 195 accessions

Maintenance of collection: As seeds: long-term seed storage at -10°C and medium-term seed storage at 5°C and 27% RH, in laminated foil packets and paper envelopes

Duplication of collection: National Seed Storage Laboratory, Fort Collins, Colorado, USA

Availability: Freely available. Requests must be made via G.A. White, Plant Introduction Officer, Beltsville Agricultural Research Centre, Beltsville, Maryland 20705, USA

UNITED STATES OF AMERICA (cont.)

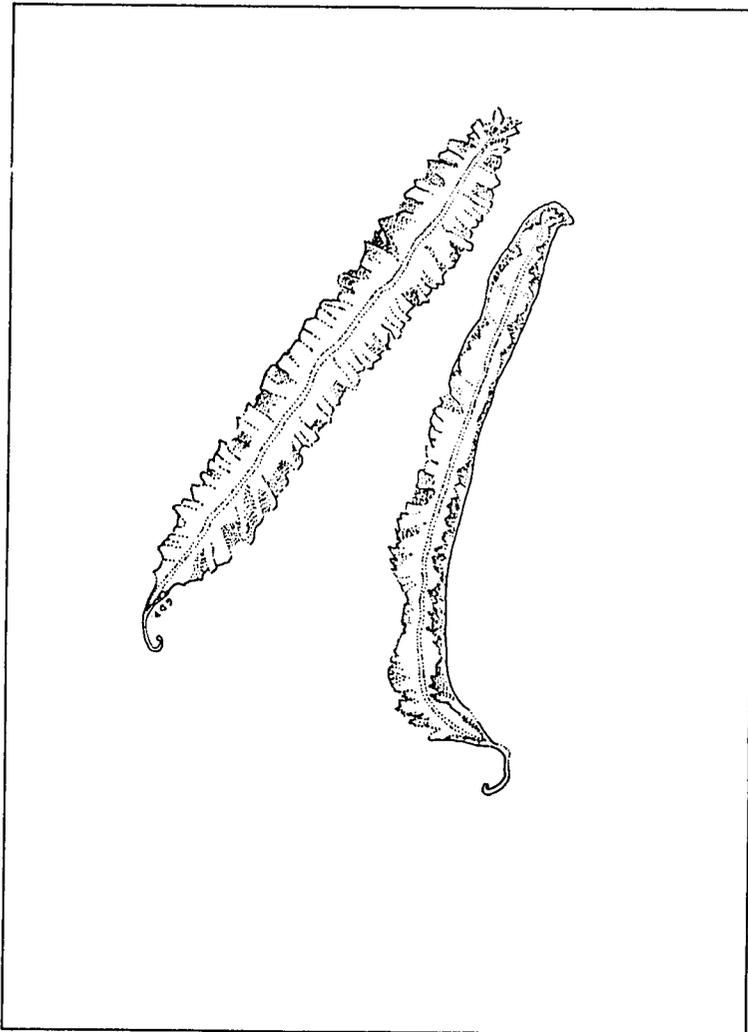
PISUM

Quarantine: Imports and exports must adhere to American quarantine regulations. (Inspection Station, Beltsville, Maryland, USA)

Evaluation: Partial

Documentation: Partial and computerized. Catalogue available on request

*Psophocarpus*



**BANGLADESH**

**PSOPHOCARPUS**

Bangladesh Agricultural Research Institute (BARI)  
G.P.O. Box 2235  
Joydebpur, Dhaka

Telephone: 391270/390241/390231  
Telex:  
Cable: RESAGRI

Curator/person in charge: M. H. Mondal

Details of collection: Psophocarpus tetragonolobus, 177 accessions from northeast Bangladesh (164), Indonesia (2), Papua New Guinea (10) and Thailand (1). Some selections also obtained from coordinated international winged-bean trials

Maintenance of collection: As seeds: long-term seed storage at -10°C, in deep-freezers

Duplication of collection: Some samples are duplicated at the University of Southampton, UK but these will be shifted to another location in the near future

Availability: Freely available

Quarantine: Government of Bangladesh requires quarantine regulations to be followed by all parties participating in exchange of germplasm

Evaluation: In progress in batches. Observations on the following characters are recorded: Polymorphism for seed colour, seed shape, stem colour, flower colour, pod shape and pod colour. Although observations on several quantitative characters have been recorded, the collections have been grouped according to sample means for pod length, number of pods/plant, seeds/pod, shelling percent, 100-seed weight, seed yield/plant, and root efficiency. The material has also been screened for resistance to diseases like foot rot (Sclerotium spp.) and false rust. Winged Bean stocks have been analyzed for somatic chromosome number, character associations among the yield traits were estimated. In some accessions intrapopulation variation noted for quality characters viz. seed colour and flower colour. Regional research stations at Comilla, Mysemensing, Raishahi, Jessore and Dacca have been selected for multi-site testing and evaluation

Documentation: Manual. Computerization is due to commence

**CHINA**

Asian Vegetable Research and Development Centre (AVRDC)  
P.O. Box 42, Shanhua  
Tainan 741, Taiwan

Telephone: (064) 837801 or 583801  
Telex: 73560 AVRDC TAIWAN  
Cable: ASVEG SHANHUA

Curator/person in charge: Tay Chong Seng

Details of collection: Psophocarpus tetragonolobus, 47 accessions from Australia (1), Bangladesh (1), Indonesia (5), Nigeria (1), Papua New Guinea (23), Philippines (4), Sri Lanka (3), Thailand (5) and Hawaii, USA (4)

Maintenance of collections: As seeds: long-term seed storage at -18°C and 60% RH, in plastic containers

Duplication of collection: No information

Availability: Freely available

Quarantine: No information

Evaluation: No information

Documentation: Computerized and complete. IBM 3774 and 3270 (DOS system) used. Print-out available. K. Kamiyama is in charge of documentation

CZECHOSLOVAKIAPSOPHOCARPUS

Institute of Tropical and Subtropical  
Agriculture  
University of Agriculture  
165 21 Praha 6 - Suchbát

Telephone: (2) 34 41 07  
Telex: 122323 VSZP C  
Cable:

Curator/person in charge: M. Buresseva

Details of collection: Psophocarpus spp., 2 wild/weedy, 25 landraces, 1 old cultivar and 9 breeding lines

Maintenance of collection: Short-term seed storage

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

GHANA

Agricultural Research Station  
University of Ghana  
Kade

Telephone:  
Telex:  
Cable:

Curator/person in charge: S. K. Karikari

Details of collection: Psophocarpus tetragonolobus, 186 accessions from Ghana (112), Indonesia (2), Nigeria (2), Papua New Guinea (11), Thailand (1), unknown origin (58)

Maintenance of collection: As seeds: in medium-term seed storage

Duplication of collection: Faculty of Agriculture, University of Ghana, Legon

Availability: Freely available

Quarantine: Prescribed rules to be observed for export/import

Evaluation: The collection has been partially evaluated. All accessions produced tubers and all but 6 produced pods. Four samples were non-photosensitive and 2 samples showed tolerance to extreme soils. More promising samples were evaluated in depth and then released as cultivars to local farmers. IBPGR descriptor list will be followed in future evaluation

Documentation: Partial and manual

INDIA

Indian Agricultural Research Institute  
National Bureau of Plant Genetic Resources (NBPGR)  
Pusa Complex  
New Delhi 110012

Telephone: 58 92 08 / 59 08 49  
Telex: 3163390 NBPGR IN  
Cable: GERmplasm NEW DELHI

Curator/person in charge: R. S. Rana

Details of collection: Psophocarpus tetragonolobus, 100 accessions from India (15 mostly from the north-east), Indonesia (30), Papua New Guinea (15), Nigeria (8), Philippines (21), and others through USDA (11)

INDIA (cont.)

PSOPHOCARPUS

|                            |   |
|----------------------------|---|
| Maintenance of collection: | As seeds: long-term seed storage at -10°C   |
| Duplication of collection: | 30 accessions duplicated at Regional Station, Akola, India  |
| Availability:              | Freely available  |
| Quarantine:                | Imported material must adhere to quarantine regulations at the NBPGR  |
| Evaluation:                | Multi-location evaluation has been carried out at Delhi (28° 35' N, 27° 12' E, Alt. 228m), Amravati/Akola (21° N, 77° 30' E, Alt. 340m) and Trichur (10° 50' N, 76° 20' E, Alt. 100m). Observation on agronomic characters recorded. A coordinated research programme involving the NBPGR and its above three regional stations; Botanical Research Station, Lucknow; Indian Institute for Horticultural Research, Bangalore; and the University of Agriculture, Bangalore have been initiated. The project involves characterization and cataloguing of available germplasm; preliminary trials of promising accessions/selections for use as vegetable and grain crop; assessment of winged-bean as fodder crop, etc. |
| Documentation:             | Manually operated data sheets. Computer facilities at IARI are available. Burroughs Corp. model B-4771 (operating on MCP 6.4 system) is used  |

INDIA

|   |  |
|---|--|
| Indian Institute of Horticultural Research (IIHR)<br>Hesarghatta<br>P.O. Box 8025, Bangalore 560 080<br>Karnataka | Telephone: 324 86 / 0845.534<br>Telex:<br>Cable: HORTSEARCH Bangalore IN |
|---|--|

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | K. L. Chadha   |
| Details of collection:     | <u>Psophocarpus tetragonolobus</u> , 118 landraces   |
| Maintenance of collection: | No information   |
| Duplication of collection: | No information   |
| Quarantine:                | Imported germplasm should be accompanied by a phytosanitary certificate and an import permit. Applications for import permit should be addressed to: Plant Protection Adviser to the Government of India, Directorate of Plant Protection, Quarantine and Storage, N.H. IV, Faridabad 121 001, India |
| Availability:              | No information   |
| Evaluation:                | No information   |
| Documentation:             | No information   |

INDONESIA

|  |  |
|--|--|
| National Biological Institute<br>P.O. Box 110<br>Bogor | Telephone: Bogor 245<br>Telex:<br>Cable: DIRBIONAS BOGOR |
|--|--|

|                           |                 |
|---------------------------|-----------------|
| Curator/person in charge: | S. Sastrapradja |
|---------------------------|-----------------|

PSOPHOCARPUS

Details of collection: Psophocarpus tetragonolobus, 380 accessions from several countries

Maintenance of collection: As seeds; long-term seed storage at -18°C and medium-term seed storage at 5°C and 50% RH. S. E. Pratigny is in charge of storage

Duplication of collection: No information

Availability: Freely available

Quarantine: No known restrictions

Evaluation: In progress using IBPGR descriptor list

Documentation: Manual. Computerization is due to commence

INDONESIA

Department of Agronomy  
Faculty of Agriculture  
Gadjah Mada University  
Jln. Sekip  
P.O. Box 1  
Yogyakarta

Telephone:  
Telex:  
Cable:

Curator/person in charge: S. K. Haryono

Details of collection: Psophocarpus tetragonolobus, 234 wild, landraces and commercial cultivars from Papua New Guinea and Thailand (54) and Java (180).

Maintenance of collection: As seeds; long-term seed storage at -19°C and 50% to 60% RH, in glass bottles

Duplication of collection: Kade, Ghana (2); LBN Bogor, Indonesia (40); IITA, Ibadan, Nigeria (14); Faculty of Agriculture, PNG (14) and ITA, Puerto Rico (5)

Availability: Personal requests restricted due to government regulations

Quarantine: Quarantine regulations are in force

Evaluation: 75% of the accessions have been evaluated as per IBPGR descriptor list. Introduced germplasm put through trials and selected lines available for distribution. Degree of outcrossing and simple inheritance studied

Documentation: Manual and partial

MALAYSIA

Department of Genetics  
National University of Malaysia  
Jalan Pantai Baru  
59100 Kuala Lumpur

Telephone:  
Telex:  
Cable: UNIVSEL

Curator/person in charge: B. S. Jalani

Details of collection: Psophocarpus tetragonolobus, 435 accessions from India, Indonesia, Kenya, Papua New Guinea, Peninsular Malaysia (324), Sarawak, Sabah (6) and Thailand (105)

Maintenance of collection: As seeds; short-term seed storage at present but upgrading in progress

MALAYSIA (cont.)

PSOPHOCARPUS

Duplication of collection: Some duplicates at MARDI, Serdang, Selangor, Malaysia

Availability: Freely available

Quarantine: Quarantine regulations must be observed

Evaluation: In progress as per IBPGR descriptor list. Agronomic evaluation undertaken, diallel crosses and quantitative genetic studies have been initiated

Documentation: Manual and partial

NIGERIA

International Institute of Tropical Agriculture (IITA)  
Oyo Road  
P.M.B. 5320  
Ibadan

Telephone: 41 32 44  
Telex: 31417 TROPIB NG  
Cable: TROPFOUND Ikeja

Curator/person in charge: N. Q. Ng

Details of collection: Psophocarpus tetragonolobus, 140 accessions

Maintenance of collection: As seeds: long-term seed storage at -20°C in aluminium cans. Short-term seed storage at 18°C (soon at 5°C) and 20% to 25% RH, in plastic jars

Duplication of collection: No information

Availability: Freely available

Quarantine: Imported material must adhere to Nigerean quarantine regulations

Evaluation: No information

Documentation: No information

PAPUA NEW GUINEA

Department of Agriculture  
University of Papua New Guinea  
P.O. Box 4820  
Port Moresby

Telephone: 253900  
Telex: NE 22366  
Cable:

Curator/person in charge: V. Kesavan

Details of collection: Psophocarpus tetragonolobus, 203 indigenous landraces and 252 landraces and cultivars from Indonesia and Thailand

Maintenance of collection: As seeds: short-term seed storage at 10°C in air-conditioned room

Duplication of collection: Fully duplicated at Institute of Plant Breeding, UPLB, Los Baños, Philippines

Availability: Available

Quarantine: For import it is essential to obtain import permit from Quarantine Officer. Samples should be treated as per regulations and be accompanied by a phytosanitary certificate. For export seeds are treated and are accompanied with a phytosanitary certificate

PSOPHOCARPUS

Evaluation: Agronomic evaluation carried out for 100 samples using IBPGK descriptor list. Evaluation of other samples in progress

Documentation: Partial and manual

PAPUA NEW GUINEA

Crop Research Division  
Department of Primary Industry (DPI)  
P.O. Box 417  
Konedobu

Telephone: 21 46 99  
Telex: AGRIC. PNG NE22143  
Cable: AGRIC. Konedobu

Curator/person in charge: F. M. Dori

Details of collection: Psophocarpus tetragonolobus, 150 accessions from Papua New Guinea highlands over 800m altitude and 60 from Indonesia and Thailand

Maintenance of collection: As seeds: medium-term seed storage at 4° to 6°C and 30% to 40% RH, in airtight glass jars

Duplication of collection: CSIRO, Australia and IPB, UPLB. Los Baños, Philippines

Availability: Freely available for experimental purposes only

Quarantine: For import it is essential to obtain import permit from C/Q Officer. Samples should be treated as per regulations and be accompanied by a phytosanitary certificate. For export seeds are treated and are accompanied with a phytosanitary certificate

Evaluation: Full evaluation of all accessions has been carried out

Documentation: Complete and manual

PHILIPPINES

National Plant Genetic Resources Laboratory (NPGRL)  
Institute of Plant Breeding (IPB)  
College of Agriculture  
University of the Philippines at Los Baños (UPLB)  
College, Laguna 3720

Telephone: (3585) 25 67  
Telex: 2435 UPLB PU  
Cable: NPGRL IPB UPLB Laguna

Curator/person in charge: N. C. Altoveros

Details of collection: Psophocarpus tetragonolobus, 576 primitive landraces/cultivars from Bangladesh, Costa Rica, Indonesia, Japan, Papua New Guinea, Philippines, Switzerland and Thailand

Maintenance of collection: As seeds: long-term seed storage at -20°C (45m<sup>3</sup>). Medium-term seed storage at 4° to 5°C and 60% RH and short-term seed storage at 0°C, in airtight glass or tin containers. Seed moisture content reduced to 6%

IBPGR designated base centre for a global collection of winged bean germplasm

Duplication of collection: Some accessions have been donated by IITA, Nigeria; University of Papua New Guinea; BARI, Bangladesh and Kagoshima University, Japan

Availability: Freely available

Quarantine: Phytosanitary certificate and import permit required

PHILIPPINES (cont.)

PSOPHOCARPUS

Evaluation: In progress. Agronomic and physiological studies have been initiated

Documentation: Partial and computerized. IBM 370 model 135 (operating on OS/VS1 system) is used. Passport data are available. N. G. Mamicpic is in charge of documentation

SRI LANKA

The International Dambala (Winged Bean) Institute  
 Pallekele  
 Kundasale

Telephone: (08) 235 68 / 23 994  
 Telex:  
 Cable: DAMBALA, Sri Lanka

Curator/person in charge: W. Herath

Details of collection: Psophocarpus grandiflorus, wild  
P. palustris, wild  
P. scandens, wild  
P. tetragonolobus, 400 primitive cultivars from Bangladesh, Indonesia, Malaysia, etc.

Maintenance of collection: As seeds: short-term seed storage at 20° to 22°C and 82% RH in 350ml airtight plastic containers. Wild species are maintained as plants on plots of 2000m<sup>2</sup> each for P. scandens and P. palustris and 5 plants of P. grandiflorus kept in a nursery.

Duplication of collection: University of Western Australia, Perth; Lembaga Biologi Nasional, Indonesia; Universiti Pertanian Malaysia, Serdang, Selangor; University of Sri Lanka, Peradeniya; TISTR, Thailand and University of Southampton, UK

Availability: Available in limited quantity (not exceeding 25 seeds)

Quarantine: Imported material must adhere to quarantine regulations in Sri Lanka

Evaluation: Evaluation is being carried out but is still incomplete

Documentation: Partial and manual

SRI LANKA

Faculty of Agriculture  
 University of Sri Lanka  
 Peradeniya

Telephone: (08) 880 41  
 Telex:  
 Cable:

Curator/person in charge: H. P. M. Gunasena / I. P. Wickramasinghe

Details of collection: Psophocarpus tetragonolobus, 84 primitive cultivars from 4 Sri Lankan districts: Matara, Galle, Matale, and Jafna; and 13 accessions from Indonesia (2), Thailand (1), Papua New Guinea (10) obtained under the International Coordinated Winged Bean Trial

Maintenance of collection: As seeds: in short-term seed storage

Duplication of collection: International Winged Bean Institute, Sri Lanka

Availability: Available in limited quantity

Quarantine: Imported material must adhere to quarantine regulations which are arranged through the Department of Agriculture, Sri Lanka

PSOPHOCARPUS

Evaluation: Evaluation has been carried out. No further information

Documentation: Complete

THAILAND

Thailand Institute of Scientific  
and Technological Research (TISTR)  
155 Phahonyothin Road  
Bangkhen, Bangkok 10900

Telephone:  
Telex:  
Cable:

Curator/person in charge: S. Chomchalow

Details of collection: Psophocarpus tetragonolobus, 403 local landraces and 125 accessions from Indonesia, Malaysia, Nigeria, Papua New Guinea and Philippines

Maintenance of collection: As seeds: long-term seed storage at -20°C, no RH control (24m<sup>3</sup>) and medium-term seed storage at 0° to 10°C and 40% RH (2 rooms, 72m<sup>3</sup>)

IBPGR designated base collection for global winged bean germplasm

Duplication of collection: Partially at International Winged Bean Institute, Sri Lanka and IBP/UPLB Los Baños, Philippines

Availability: Freely available

Quarantine: Thai quarantine regulations to be observed

Evaluation: Evaluation has been carried out on the following characters: Morphological: leaflet shape, stem colour, calyx colour, corolla colour, pod colour, pod specks, wing colour, pod surface texture, pod shape, seed colour, seed shape, presence or absence of tuber, tuber size. Agronomical: days to first flowering, pod length, seeds per pod, 100-seed weight, shelling percent, photoperiod sensitivity, shattering in the field, reaction to diseases (leaf soot - Pseudocercospora psophocarpi, root knot - Meloidogyne incognita, mosaic, witches' broom); reaction to pests (aphids - Aphid spp., leaf roller - Lamprosema spp., bean-fly - Ophiomyia phaseoli, Maruca testularis and Etiella zinckenella)

Documentation: Computerized and partial. IBPGR descriptor list followed  
Evaluation data published and available from TISTR or IBPGR

UNITED KINGDOM

Department of Biology  
Building 44  
University of Southampton  
Southampton SO9 5NH

Telephone: (0703) 55 91 22 Ext. 2494  
Telex: 47661 GB  
Cable:

Curator/person in charge: Nazmul Haq

Details of collection: Psophocarpus tetragonolobus, 660 landraces and breeding lines from Bangladesh, Burma, Fiji, Indonesia, India, Malaysia, Papua New Guinea, Philippines, Puerto Rico, Vietnam, etc.,  
N.B. This is a personal collection of the curator

Maintenance of collection: As seeds: medium-term seed storage at 4°C, in glass jars

UNITED KINGDOM (cont.)

PSOPHOCARPUS

- Duplication of collection: BARI, Bangladesh; International Winged Bean Institute, Sri Lanka and TISTR, Thailand
- Availability: Available from the International Dambala (Winged Bean) Institute, Palkelele, Kundasale, Sri Lanka, to which the collection will be handed over for safe-keeping and regeneration. Present viability is very low due to the collection being kept under short-term seed storage
- Quarantine: Normal regulations apply
- Evaluation: 389 lines from this collection have been evaluated at 3 sites viz. Bangladesh, Sri Lanka and Thailand
- Documentation: Partial and manual at present. Computerization is envisaged after the collection becomes established at the International Winged Bean Institute, Sri Lanka

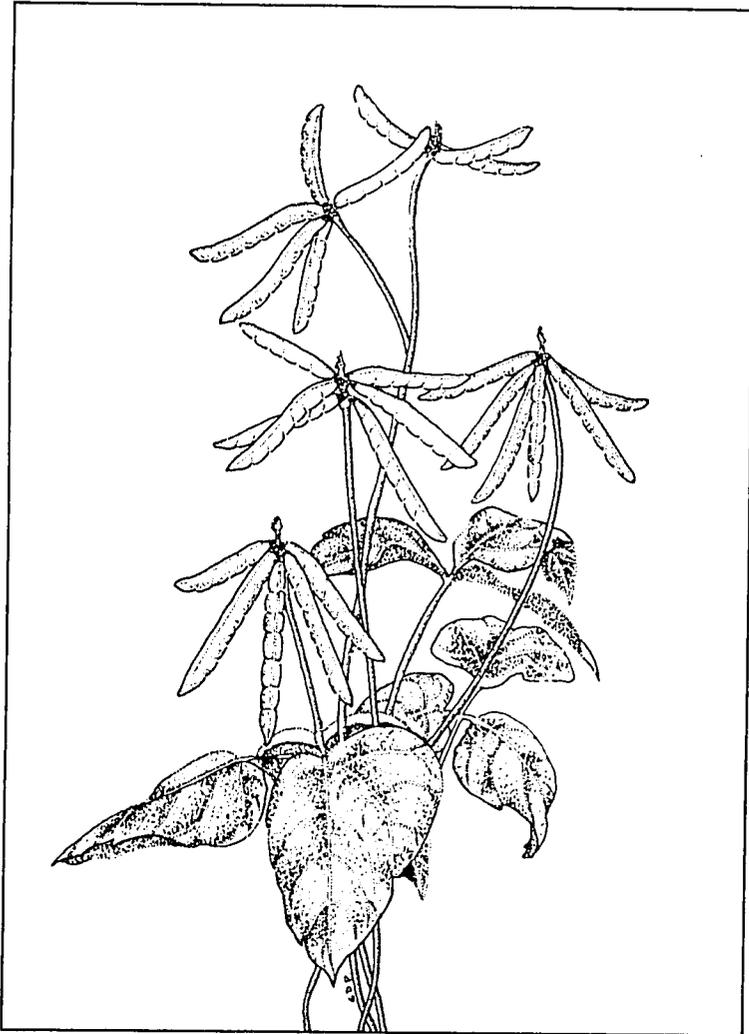
WESTERN SAMOA

School of Agriculture  
University of South Pacific (USP-SOA)  
Alafua Campus  
P.O. Box 890  
Apia

Telephone: 21671  
Telex: 51 USP SX  
Cable: UNIVERSITY Apia Samoa

- Curator/person in charge: J. E. Wilson
- Details of collection: Psophocarpus tetragonolobus
- Maintenance of collection: As plants in nurseries
- Duplication of collection: WSTEC, Nu'u, Samoa
- Availability: No information
- Quarantine: No information
- Evaluation: No information
- Documentation: Manual and partial

*Vigna*



AFGHANISTAN

VIGNA

Crop Germplasm Unit  
Crop Improvement Division  
Plant Research and Soil Science Department  
Darul Aman Agriculture Research Station  
Ministry of Agriculture  
Kabul

Telephone:  
Telex:  
Cable:

Curator/person in charge: M. A. Rashid

Details of collection: Vigna radiata var. radiata, 280 local landraces collected in Afghanistan

Maintenance of collection: As seeds: medium-term seed storage at 2°C and 35% to 40% RH

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

BANGLADESH

Bangladesh Agricultural Research Institute (BARI)  
G.P.O. Box 2235  
Joydebpur  
Dhaka

Telephone: 39 12 70 / 39 02 41  
Telex:  
Cable: RESAGRI

Curator/person in charge: M. H. Mondal

Details of collection: Vigna mungo, 339 landraces and cultivars from Bangladesh, India and Pakistan  
V. radiata, 498 landraces and cultivars from Bangladesh, India, Mexico, Pakistan, Philippines and Thailand  
V. unguiculata, 50 landraces and cultivars from Bangladesh, India and Nigeria

Maintenance of collection: As seeds: long-term seed storage at -10°C, in deep-freezers

Duplication of collection: No information

Availability: Freely available

Quarantine: Government of Bangladesh requires that quarantine regulations be adhered to by all parties participating in exchange of germplasm

Evaluation: In progress by batches. Observations on the following characters are recorded: Polymorphism for seed colour, seed shape, stem colour, flower colour, pod shape, and pod colour. Although observations on several quantitative characters have been recorded, the collections have been grouped according to sample means for pod length, number of pods/plant, seeds/pod, shelling percentage, 100-seed weight, seed yield/plant, and root efficiency. The material has also been screened for resistance to diseases like foot rot (Sclerotium spp.) and false rust. In some accessions intra population variation noted for quality characters, viz. seed colour and flower colour. Regional Research Stations at Comilla, Mysensing, Raishahi, Jessore and Dacca have been selected for multi-site testing and evaluation

Documentation: Manual. Computerization is due to commence

**BELGIUM****VIGNA**

Chaire de Phytotechnie des Régions Chaudes  
Faculté des Sciences Agronomiques de L'Etat  
B-5800 Gembloux

Telephone: (081) 61 29 58 ext. 2112  
Telex:  
Cable:

Curator/person in charge: R. Maréchal

Details of collection:

- V. aconitifolia*, 7 cultivated
- V. adenantha*, 11 wild
- V. ambacensis* var. *ambacensis*, 7 wild
- V. ambacensis* var. *pubigera*, 8 wild
- V. angivensis*, 1 wild
- V. angularis*, 8 cultivated
- V. antillana*, 6 wild
- V. candida*, 7 wild
- V. caracalla*, 1 wild
- V. comosa* subsp. *abercornensis*, 1 wild
- V. comosa* subsp. *comosa*, 1 wild
- V. filicaulis* var. *filicaulis*, 1 wild
- V. filicaulis* var. *pseudovenulosa*, 1 wild
- V. fischeri*, 1 wild
- V. friesorum* var. *friesorum*, 1 wild
- V. frutescens* var. *buchneri*, 1 wild: var. *frutescens*, 1 wild
- V. gentryi*, 5 wild
- V. glabrescens*, 1 cultivated (?)
- V. gracilis*, 1 wild
- V. heterophylla*, 1 wild
- V. hosei* var. *hosei*, 3 wild
- V. hosei* var. *pubescens*, 1 wild
- V. kirkii*, 1 wild
- V. lasiocarpa*, 5 wild
- V. laurentii*, 1 wild
- V. linearis* var. *latifolia*, 6 wild: var. *linearis*, 3 wild
- V. lobatifolia*, 1 wild
- V. longifolia*, 2 wild
- V. luteola*, 16 wild
- V. marina* f. *oblongo*, 1 wild
- V. membranacea* subsp. *caesia*, 3 wild
- V. membranacea* subsp. *hapalantha*, 4 wild: subsp. *membranacea*, 1 wild
- V. monophylla*, 1 wild
- V. multinervis*, 3 wild
- V. mungo* var. *myngo*, 16 cultivated: var. *silvestris*, 3 wild
- V. nigrizia*, 3 wild
- V. nuda*, 1 wild
- V. oblongifolia* var. *oblongifolia*, 15 wild: var. *parviflora*, 5 wild
- V. parkeri* var. *maranguensis*, 2 wild
- V. penduncularis* var. *penduncularis*, 6 wild
- V. penduncularis* var. *pusillus*, 1 wild
- V. racemosa*, 23 wild
- V. radiata* var. *radiata*, 13 cultivated: var. *sublobata*, 6 wild
- V. reticulata*, 11 wild
- V. speciosa*, 2 wild
- V. trilobata*, 7 wild
- V. triphylla*, 1 wild
- V. umbellata* var. *gracilis*, 1 wild
- V. umbellata* var. *umbellata*, 11 cultivated
- V. unguiculata* subsp. *dekindijana*, 30 wild
- V. unguiculata* subsp. *unguiculata*, 28 cultivated
- V. venulosa*, 1 wild
- V. vexillata* var. *angustifolia*, 9 wild: var. *macrosperma*, 2 wild

BELGIUM (cont.)

VIGNA

- Details of collection: (cont.) Vigna vexillata var. vexillata, 37 wild  
V. wittej, 4 wild  
Vigna spp., 2 wild, unidentified  
 Geographical representation: Afghanistan, Argentina, Australia, Brazil, Burundi, Cameroon, Chad, China, Colombia, Congo, Costa Rica, Côte d'Ivoire, Cuba, Ecuador, France, Guatemala, Guyana, India, Iran, Japan, Kenya, Laos, Liberia, Mexico, Netherlands, Nigeria, Panama, Philippines, Pakistan, Romania, Rwanda, Senegal, Sri Lanka, Surinam, Tanzania, Togo, Trinidad and Tobago, Turkey, Uruguay, USA, Venezuela, Zaire and Zimbabwe
- Maintenance of collection: As seeds: long-term seed storage at -20°C and 5% to 6% RH, in airtight aluminium foil packets  
IBPGR designated base collection for wild species of Vigna germplasm
- Duplication of collection: Partially at CIAT, Cali, Colombia; IITA, Ibadan, Nigeria and G. Freytag, Mayaguez, Puerto Rico
- Availability: Freely available in limited quantity. Requests limited to 10/30 seeds per sample
- Quarantine: No known restrictions
- Evaluation: Evaluation in progress
- Documentation: Passport data complete and computerized

BOTSWANA

Department of Agricultural Research  
 Sebele  
 USAID/Botswana  
 Gaborone

Telephone:  
 Telex:  
 Cable:

Curator/person in charge:

- Details of collection: Vigna unguiculata, 852 accessions
- Maintenance of collection: As seeds in cold storage
- Duplication of collection: 450 accessions duplicated at IITA, Nigeria
- Quarantine: No information
- Evaluation: Full evaluated
- Documentation: Complete. Botswana Cowpea Germplasm Catalogue published

BRAZIL

Centro Nacional de Recursos Genéticos (CENARGEN)  
 Empresa Brasileira de Pesquisas Agropecuárias (EMBRAPA)  
 C.P. 10.2372  
 70.770 Brasilia D.F.

Telephone: 2724203/2720253/2742717  
 Telex: (061) 1622 or 273-0100  
 Cable:

Curator/person in charge:

J. Silva

- Details of collection: Vigna unguiculata, 434 accessions  
Vigna spp., 11 wild  
 This is Brazil's base collection

VIGNA

Maintenance of collection: As seeds: long-term seed storage at -18°C. Seeds with 6% to 7% moisture content, in sealed cans and laminated aluminium foil packets

Duplication of collection: No information

Availability: Freely available. Requests for germplasm must be sent to the Chief, CENARGEN

Quarantine: No information

Evaluation: No information

Documentation: Computerized. Complete for passport data. IBM 4341, operating system OS/VS1. Print-outs available. E. A. Morales is in charge of documentation

BRAZIL

Centro Nacional de Pesquisas de Arroz e Feijao (CNPAP) Telephone:  
 Empresa Brasileira de Pesquisas Agropecuárias (EMBRAPA) Telex:  
 Caixa Postal 179 Cable:  
 74.000 Goiania  
 Goias

Curator/person in charge: M. J. Havey

Details of collection: Vigna unguiculata, 492 local landraces and 1358 introduced material

Maintenance of collection: As seeds: short-term seed storage at 10°C and 25% RH

Duplication of collection: No information

Availability: Freely available. Requests for germplasm should be sent to the Chief, CENARGEN

Quarantine: No information

Evaluation: No information

Documentation: No information

CHINA

Asian Vegetable Research and Development Centre (AVRDC) Telephone: (06) 583 78 01  
 P.O. Box 42, Shanhua Telex:  
 Tainan 741, Taiwan Cable:

Curator/person in charge: Tay Chong Seng

Details of collection: Vigna spp., 5483 accessions as follows:  
V. acrotifolia, 28  
V. angularis, 125  
V. mungo, 169  
V. radiata, 5088  
V. umbellata, 72  
V. unguiculata subsp. unguiculata, 1

CHINA (cont.)

VIGNA

|                                |   |
|--------------------------------|---|
| Details of collection: (cont.) | The collection is from the following countries and regions: Afghanistan (290), Argentina (3), Australia (127), Bangladesh (6), Brazil (11), Burma (12), Canada (2), China (22), Congo (13), Costa Rica (2), Côte d'Ivoire (18), Cuba (1), Denmark (2), Ecuador (1), Ethiopia (3), France (47), Ghana (2), Guam (3), Guatemala (11), Guyana (1), Hong Kong (30), India (2632), Indonesia (67), Iran (628), Iraq (4), Japan (10), Kenya (9), Korea (150), Madagascar (11), Malaysia (2), Mexico (2), Netherlands (39), Nigeria (32), Pakistan (140), Peru (4), Philippines (334), Republic of South Africa (3), Senegal (4), Somalia (1), Sri Lanka (16), Surinam (1), Taiwan (108), Tanzania (1), Thailand (242), Trinidad (1), Turkey (25), UK (57), USA (184), USSR (4), Vietnam (21), Africa (2), Middle East (9) and unknown origin (96) |
| Maintenance of collection:     | As seeds: long-term seed storage at -18°C and 60% RH, in plastic containers of 250g each<br><br><u>IBPGR designated base collection for cultivated <i>Vigna radiata</i> germplasm</u>   |
| Duplication of collection:     | No information  |
| Availability:                  | Freely available  |
| Quarantine:                    | No information  |
| Evaluation:                    | Evaluation has been carried out for the following characters: growth habit, hypocotyl colour, leaf shape, raceme position, flower, pod, leaf and seed characteristics, days to flowering, plant height when flowering, flowering period, number of clusters, maturity in days, lodging, pods/plant, seeds/pod, 1000 seed weight, seed protein, seed starch, plant height at maturity, data recorded on 5 plants per accession using modified IBPGR descriptor list. For more details see a Cooperative Regional Programme in Southeast Asia, report of the first meeting May 1985, Working Group on Food Legumes, IBPGR   |
| Documentation:                 | Computerized and complete. IBM 3774 and 3270 (operating with DOS system and SAS program) are used. Recent addition includes HP3000 minicomputer (operating on MINISIS from IDRC) which is being used to establish databases for passport, characterization and inventory data. Print-outs available. Mungbean catalogue will be produced soon. K. Kamiyama is in charge of documentation  |

COLOMBIA

Centro Experimental Palmira  
 Instituto Colombiano Agropecuario (ICA)  
 Apartado Aéreo 233  
 Palmira Valle

Telephone:  
 Telex:  
 Cable:

|                            |  |
|----------------------------|--|
| Curator/person in charge:  | G. Bastidas  |
| Details of collection:     | <u><i>Vigna radiata</i></u> , 135 accessions<br><u><i>V. unguiculata</i></u> , 108 accessions                          |
| Maintenance of collection: | As seeds: short-term seed storage at 10° to 15°C and 60% to 75% RH, in plastic containers                              |
| Duplication of collection: | AVRDC, Taiwan, China and IITA, Nigeria   |
| Availability:              | No information   |
| Quarantine:                | Import restrictions. Material may be imported with phytosanitary certificate and only if free from common mosaic virus |

VIGNA

Evaluation: In progress  
 Documentation: Partial and manual

COSTA RICA

Unidad de Recursos Genéticos  
 Centro Agronomico Tropical de  
 Investigación y Enseñanza (CATIE)  
 Apartado 74  
 Turrialba

Telephone: 56 64 31 / 56 01 69  
 Telex: 8005 CATIE CR  
 Cable: CATIE Turrialba

Curator/person in charge: H. Frömbreg

Details of collection: Vigna aconitifolia, 8 landraces  
V. angularis, 4 landraces  
V. radiata, 13 landraces  
V. umbellata, 6 landraces  
V. unguiculata, 64 landraces  
Vigna spp., 67 landraces  
 All material was collected in Central America

Maintenance of collection: As seeds: long-term seed storage at -17°C, in hermetically sealed containers with 100 seeds each

Duplication of collection: No information

Availability: Freely available

Quarantine: Phytosanitary certificate essential

Evaluation: Evaluation is in progress

Documentation: Partial and computerized. IBM 4331 Model 1 (operating on VM/CMS system) is used. Print-outs available. C. A. Domain is in charge of documentation

ETHIOPIA

Plant Genetic Resources Centre (PGRC)  
 Institute of Agricultural Research  
 P.O. Box 30726  
 Addis Ababa

Telephone: 18 03 81  
 Telex: 21460 GTZFP ET  
 Cable: GENE BANK, Addis Ababa

Curator/person in charge: M. Worede

Details of collection: Vigna unguiculata, 29 primitive landraces from Ethiopia, collected by PGRC

Maintenance of collection: As seeds: long-term seed storage at -10°C. Seeds with 4% to 7% moisture content. Medium-term seed storage at 4°C and 30% to 40% RH, in hermetically sealed aluminium foil bags. For more details see Krauss, A. (1983) PGRC/E ILCA Newsl. 4: 9-12

Duplication of collection: Institut für Pflanzenbau und Pflanzenzüchtung, Braunschweig, FRG

Availability: Freely available

Evaluation: In progress using IBPGR descriptor list. For more details see Engels, J.M.M. (1985) FAO/IBPGR Pl. Genet. Resources Newsl. 61: 13-18

ETHIOPIA (cont.)

VIGNA

Documentation: Computerization in progress using HP 125 microcomputer. HP 3000 computer using database management system "MINISIS" belonging to ILCA is also utilized. In future link between the two computers will be established. For further information on collections see PGRC/E ILCA Newsl. 8, April 1985

FEDERAL REPUBLIC OF GERMANY

Institut für Pflanzenbau und Pflanzenzüchtung (FAL)  
Bundesallee, 50  
D-3300 Braunschweig

Telephone: (0531) 59 66 00/1  
Telex:  
Cable: LANDFORSCHUNG, Völktenrode

Curator/person in charge: M. Dambroth

Details of collection: Vigna radiata var. radiata, 20 populations from Iran

Maintenance of collection: As seeds: long-term seed storage at -10°C with seed moisture content of 4% to 8%, in airtight tin cans

Duplication of collection: No information

Availability: Freely available in limited quantity

Quarantine: No known restrictions

Evaluation: Partial evaluation has been done

Documentation: Computerized. Passport data and other information are available from L. Seidewitz, FAL, FRG

FRANCE

Institut de Biocénétique Expérimentale  
de Agrosystèmes (IBEAS)  
Ave. de l'Université  
F-64000 Pau

Telephone: (59) 84 71 10  
Telex: 571995  
Cable:

Curator/person in charge: D. Combes

Details of collection: Vigna unguiculata, 25 breeding material and 31 other accessions

Maintenance of collection: As seeds: medium-term seed storage at 4°C

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: No information

Documentation: No information

GHANA

VIGNA

Crop Science Department  
University of Ghana  
P.O. Box 44  
Legon (near Accra)

Telephone:  
Telex:  
Cable:

Curator/person in charge: Head of Department

Details of collection: Vigna subterranea, 40 landraces from Ghana  
V. unguiculata, 14 landraces from Ghana (incl. 4 IITA); and 6 breeders' lines from Nigeria and Republic of South Africa

Maintenance of collection: As seeds: medium-term seed storage at 5°C, in polythene bags. Regeneration done yearly

Duplication of collection: No information

Availability: Freely available in limited quantity

Quarantine: Phytosanitary certificate necessary

Evaluation: Evaluation is being carried out for yield and disease resistance

Documentation: Partial and manual

GHANA

Plant Introduction and Exploration Section  
Crops Research Institute  
P.O. Box 7  
Bunso

Telephone:  
Telex:  
Cable:

Curator/person in charge: S. O. Bennett-Lartey

Details of collection: Vigna unguiculata, 234 landraces from Ghana

Maintenance of collection: As seeds: long-term storage, -24°C, in deep-freezers in aluminium foil containers

Duplication of collection: IITA, Ibadan, Nigeria

Availability: Freely available

Quarantine: Phytosanitary certificate required

Evaluation: Samples evaluated according to IBPGR descriptor list

Documentation: Manual, passport and characterization data are available

GREECE

Greek Gene Bank  
North Greek Agricultural Research Centre  
P.O. Box 105 14, 54110 Thessaloniki

Telephone: (031) 47 15 44  
Telex:  
Cable:

Curator/person in charge: A. Zamanis

Details of collection: Vigna spp., 25 landraces from Greece

Maintenance of collection: As seeds: long-term seed storage at -20°C, in airtight metal cans. Medium-term seed storage at 2°C and 30% RH, in laminated foil packets

GREECE (cont.)

VIGNA

Duplication of collection: No information

Availability: Freely available on exchange basis only

Quarantine: A phytosanitary certificate is necessary for import and export

Evaluation: Evaluation is being carried out using IBPGR descriptor list

Documentation: Complete and computerized on Apple II microcomputer

HUNGARY

Research Centre for Agrobotany  
Institute for Plant Production  
and Qualification (IPPQ)  
H-2766 Tápíószele

Telephone: Tápíószele 41  
Telex: 226981 AGBOT H  
Cable:

Curator/person in charge: A. L. Kiss / A. Szucs / I. Karsai

Details of collection: Vigna spp., 89 accessions

Maintenance of collection: As seeds: long-term seed storage at -20°C and medium-term seed storage at 0° to 4°C with no RH control, in airtight jars

Duplication of collection: No information

Availability: Freely available in limited quantity

Quarantine: Phytosanitary certificate required

Evaluation: Partial and in progress

Documentation: Partial and manual. Computerization in progress

INDIA

Indian Agricultural Research Institute  
National Bureau of Plant Genetic Resources (NBPGR)  
Pusa Complex, New Delhi 110 012

Telephone:  
Telex: 63390 NBPGR IN  
Cable: GERMP LASM New Delhi

Curator/person in charge: R. S. Rana

Details of collection: Vigna aconitifolia, 1100 landraces and many primitive cultivars mostly from India  
V. mungo, 1414 accessions  
V. mungo var. silvestris, 15 wild  
V. radiata, 1475 accessions  
V. radiata var. sublobata, 10 wild  
V. trilobata, 30 accessions  
V. umbellata, 451 accessions  
V. unguiculata, over 1166 accessions collected at several Regional Stations: Jodhpur (195), Akola (141), Trichy, etc.  
V. vexillata, 2 accessions collected in Himalaya at 2000m.

Maintenance of collection: As seeds: long-term seed storage at -18°C, in aluminium foil packets. Facilities at regional stations are expected to be upgraded to long-term storage conditions in the near future

Duplication of collection: 133 accessions of V. radiata are duplicated at NBPGR Regional Station at Shimla. Approximately 1000 accessions of V. radiata are maintained by IARI, New Delhi

VIGNA

- Availability: Freely available
- Quarantine: Imported germplasm should be accompanied by a phytosanitary certificate and an import permit. Applications for import permit should be addressed to: Plant Protection Adviser to the Government of India, Directorate of Plant Protection, Quarantine and Storage, N.H. IV, Faridabad 121 001, India
- Evaluation: In progress for following agro-morphologic characters at various Regional Stations of NBPGR: days to flower, pod length (cm), seeds per plant, pods/plant and 100-seed weight
- Documentation: Manually operated data sheets. Computer facilities at IARI are available. Burroughs Corp. model B-4771 in use operating on MCP 6.4 system. For further information of exploration and collection see Mehra, K.L. and Arora, R.K. (1982) Plant Genetic Resources of India, ICAR, New Delhi and Chandel K.P.S (1981) Wild Vigna species in the Himalayas. FAO/IBPGR Pl. Genet. Resources Newsl. 45: 17-19. For further details of results of evaluation trials see Chandel, K.P.S. and Pant, K.C. (1982) in Ann. Aric. Res., 3: 19-34

INDIA

Indian Grassland and Fodder Research Institute (IGI-RI)  
Jhansi-Gwalior Road  
Jhansi 284 003  
Uttar Pradesh

Telephone:  
Telex:  
Cable:

- Curator/person in charge: O. P. Dixit
- Details of collection: Vigna unguiculata, 600 local types which are mostly suitable for use as fodder
- Maintenance of collection: As seeds: in air-conditioned store
- Duplication of collection: No information
- Availability: Freely available
- Quarantine: Imported germplasm should be accompanied by a phytosanitary certificate and an import permit. Applications for import permit should be addressed to: Plant Protection Adviser to the Government of India, Directorate of Plant Protection, Quarantine and Storage, N.H. IV, Faridabad 121 001, India
- Evaluation: In progress for agro-morphological characters especially for suitability for fodder use
- Documentation: Manual

INDONESIA

National Biological Institute  
P.O. Box 110  
Jalan Raya Juanda 18  
Bogor

Telephone: 288 20 or 279 75  
Telex:  
Cable: DIRBIONAS Bogor

- Curator/person in charge: S. Sastrapradja
- Details of collection: Vigna radiata, 100 accessions

INDONESIA (cont.)

VIGNA

|                                |  |
|--------------------------------|--|
| Details of collection: (cont.) | <u>Vigna umbellata</u> , 100 accessions<br><u>V. unguiculata</u> , 3930 accessions from several countries  |
| Maintenance of collection:     | As seeds: long-term seed storage at -18°C, in deep-freezers. Medium-term seed storage at 5°C and 50% RH. S. E. Pratiigny is in charge of storage |
| Duplication of collection:     | Some at Research Institute for Food Crops, Sukamandi   |
| Availability:                  | Freely available   |
| Quarantine:                    | No known restrictions  |
| Evaluation:                    | In progress using IBPGR descriptor list  |
| Documentation:                 | Manual. Computerization is due to commence   |

INDONESIA

Genetic Resources Unit  
Malang Research Institute for Food Crops (MARIF)  
Jl. Wilis 10  
P.O. Box 66  
Malang, East Java

Telephone: (0341) 244 22 / 25 56  
Telex:  
Cable:

|                            |   |
|----------------------------|---|
| Curator/person in charge:  | J. S. Siemonsma   |
| Details of collection:     | <u>Vigna radiata</u> , 867 landraces from Afghanistan (4), Brazil (1), Burma (1), China (1), India (55), Indonesia (493), Iran (1), Korea (2), Pakistan (2), Philippines (27), Taiwan (China) (225), Thailand (4), USA (2), Vietnam (2), unknown origin (47)  |
| Maintenance of collection: | No information  |
| Duplication of collection: | No information  |
| Availability:              | No information  |
| Quarantine:                | No information  |
| Evaluation:                | Germplasm evaluation has been carried out in standardized trials following normal observation procedures. The following characters have been evaluated: trial no., hypocotyl colour, pod colour, seed colour, seed lustre, <u>Rhizobium</u> nodulation score, leaf L x W, leaf L/W ratio, leaf L/PL, flowering date, plant height, no. of branches, no. of clusters (inflorescences), no. of clusters/branch, no. of clusters/plant, pods/plant, pods/cluster, pod weight, shelling percentage, seed yield (g/plant), seed weight (average of 200 seeds), seeds/plant, seeds/pod, crop duration, seed yield/plant/week and resistance to bean-fly ( <u>Ophiomyia phaseoli</u> ) |
| Documentation:             | Complete and computerized. Catalogue with passport data as well as evaluation data available  |

IRAN

Seed and Plant Improvement Institute (SPII)  
Ministry of Agriculture and Rural Development  
Mard-Abad  
Karadj

Telephone:  
Telex:  
Cable:

Curator/person in charge: Parviz Vojdani

VIGNA

- Details of collection: Vigna radiata var. radiata, 26 accessions from Sistan, Baluchistan, Qazvin provinces and western parts of Iran including some collections from around Teheran  
V. unguiculata, 32 accessions
- Maintenance of collection: As seeds: long-term seed storage at -20°C, in airtight metal cans with 500<sub>3</sub> seed
- Duplication of collection: Istituto del Germoplasma, Bari, Italy; Others held at Agricultural Colleges of the Tehran University under warehouse conditions at present
- Availability: Freely available except where seeds are very few
- Quarantine: Import and export of seeds have to pass through Iran's quarantine regulations
- Evaluation: Preliminary evaluation has been carried out on most of the samples. More detailed evaluation in progress
- Documentation: Partial and manual at present but computerization in progress with IBPGR's assistance

IRAQ

Genetic Resources Unit  
Ministry of Agriculture and Agrarian Reform  
Abu Ghraib  
Baghdad

Telephone:  
Telex:  
Cable:

- Curator/person in charge: A.T. Shiarif
- Details of collection: Vigna radiata, 10 landraces collected in Iraq  
V. unguiculata, 10 landraces collected in Iraq
- Maintenance of collection: As seeds: medium-term seed storage at 5°C and 35% RH, in airtight metal cans
- Duplication of collection: No information
- Availability: Freely available
- Quarantine: No known restrictions
- Evaluation: No information
- Documentation : Partial and manual

ISRAEL

Israel Gene Bank for Agricultural Crops  
Volcani Centre  
P.O. Box 6  
50-250 Bet Dagan

Telephone: (03) 98 04 58  
Telex: 341118 BXTV IL  
Cable:

- Curator/person in charge: M. Zur
- Details of collection: Vigna spp., 200 commercial cultivars and breeders' lines from Czechoslovakia, France, Greece, Morocco, Netherlands, Turkey. USA, USSR

ISRAEL (cont.)

VIGNA

Maintenance of collection: As seeds: long-term seed storage at -10°C, in aluminium containers

Duplication of collection: No information

Availability: Freely available

Quarantine: Phytosanitary certificate essential for import

Evaluation: Most of the material has been evaluated

Documentation: Partial and computerized

JAPAN

Department of Genetic Resources  
Germplasm Storage Centre  
National Institute of Agrobiological Resources  
Tsukuba Science City  
Yatabe, Ibaraki 305

Telephone: (02975)-6-8368  
Telex:  
Cable: NIARTSUKUBA YATABE

Curator/person in charge: Shinji Watanabe

Details of collection: Vigna angularis, 14 landraces and 60 breeding lines from Japan; and 1 landrace from USSR  
V. mungo, 34 accessions from Afghanistan (2), India (19), Nepal (3), Pakistan (3), Philippines (4) and Thailand (3)  
V. radiata, 2 landraces from Japan; and 122 introductions from Afghanistan (8), Borneo (1), China (12), Hong Kong (1), India (21), Iran (8), Iraq (1), Indonesia (4), Korea (15), Pakistan (8), Philippines (17), Sri Lanka (4), Thailand (13), Turkey (3) and Vietnam (6)  
V. umbellata, 6 from Nepal

Maintenance of collection: As seeds: long-term seed storage at -10°C and medium-term seed storage at -1°C and 30% RH, in aluminium foil packets and vacuum sealed cans

Duplication of collection: No information

Availability: Not available

Evaluation: No information

Documentation: Complete and computerized. NEC model ACOS-77/800 II is used. K. Kumagai is in charge of documentation

MALI

Institut d'Economie Rurale (SRCVO)  
B.P. 438 Sotuba  
Jamako

Telephone:  
Telex:  
Cable:

Curator/person in charge: M. Toure

Details of collection: Vigna subterranea, 70 landraces from Mali  
V. unguiculata, 133 landraces from Mali; 24 breeders' lines from Brazil (3), Burkina Faso (1), Nigeria (15), Niger (1) and Senegal (4)

VIGNA

Maintenance of collection: As seeds: no cold store. Samples kept in plastic bags or as live collection

Duplication of collection: Collection from Mali is duplicated at IITA, Ibadan, Nigeria

Availability: Available in limited quantity only on exchange basis

Quarantine: Phytosanitary certificate required

Evaluation: Complete for habit, seed colour, susceptibility to photoperiodicity, size of seed and cycle, but passport data are not available

Documentation: Characterization data complete and available

MOROCCO

Station Centrale des Plantes Fourragères  
 Institut National de la Recherche Agronomique (INRA)  
 P.O. Box 415  
 Rabat

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: B. Saki

Details of collection: Vigna unguiculata, 113 varieties from Morocco

Maintenance of collection: As seeds: no special storage provided at present but deep-freezers with IBPGR assistance to be installed

Duplication of collection: Not duplicated

Availability: No information

Quarantine: No known restrictions

Evaluation: Evaluated for agronomical and phenological characters

Documentation: Partial and manual

NIGERIA

International Institute of Tropical Agriculture (IITA)  
 Oyo Road  
 P.M.B. 5320  
 Ibadan

Telephone: 413244  
 Telex: 31417 TROPB NG  
 Cables: TROPFOUND Ikeja

Curator/person in charge: N. Q. Ng

Details of collection: Vigna subterranea, 1378 landraces mostly from Africa  
V. unguiculata, 12076 accessions, 85% primitive cultivars, others commercial cultivars, breeders' lines and varieties from 25 African countries and around the world. Most of the material collected by IITA exploration missions in Africa. Other samples donated by USDA, Ife University, Nigeria; Abello University, Nigeria; Agriscience University, Bangalore, India, etc.  
Vigna spp., 210 wild from Africa

Maintenance of collection: As seed: long-term seed storage at -20°C in aluminium cans of 0.33l capacity, (88m<sup>3</sup>) and short-term seed storage at 18°C (in future at 5°C) and 20% to 25% RH, in plastic jars (± 400m<sup>3</sup>)

IBPGR designated base collection for cultivated V. unguiculata germplasm

NIGERIA (cont.)

VIGNA

Duplication of collection: NSSL, Fort Collins, Colorado, USA

Availability: Freely available

Quarantine: Imported material must adhere to Nigerian quarantine regulations

Evaluation: Evaluation has been carried out for 39 botanical characters as well as disease and pest resistance

Documentation: Passport data completely computerized on DEC VAX 11/750 (operating on VMS system). In progress for evaluation data. E. A. Fox is in charge of documentation. For more information on germplasm collection at IITA see IITA Research Briefs, vol. 6, no. 2, June 1985. Ng, N.Q. (1982) Genetic resources programme of IITA. FAO/IBPGR Pl. Genet. Resources News: 49: 26-31

PAKISTAN

Genetic Resources Laboratory  
National Agricultural Research Centre (NARC)  
Pakistan Agricultural Research Council (PARC)  
P. O. National Health Laboratories  
Islamabad

Telephone:  
Telex: 5604 PARC PK  
Cable: AGRESCOUNCIL ISLAMABAD  
PAKISTAN

Curator/person in charge: R. Anwar

Details of collection: Vigna mungo, 479 accessions from Pakistan  
V. radiata, 627 accessions

Maintenance of collection: As seeds: medium-term seed storage at -1°C and 45% RH, in tin cans and aluminium foil bags

Availability: Freely available in limited quantity

Duplication of collection: No information

Quarantine: Phytosanitary certificate essential. Small number of samples only

Evaluation: Under progress

Documentation: Complete. Computerization in progress

PERU

Universidad Nacional Agraria (UNA)  
Apartado 456  
La Molina, Lima

Telephone: 35.20350  
Telex:  
Cable:

Curator/person in charge: M. S. G. del Carpio R.

Details of collection: Vigna unguiculata, 6 local varieties from the Peruvian coast and 20 introduced cultivars

Maintenance of collection: As seeds: short-term seed storage at 10°C and 50% RH

Duplication of collection: Collection is partially duplicated at some of the institutes in the Andean zone

Availability: Freely available

Quarantine: No information

VIGNA

Evaluation: Evaluation has been carried out on morpho-agronomic characters

Documentation: Partial and computerized using North Star Horizon operating on CP/M system. Z. Huaman is in charge of documentation

PHILIPPINES

National Plant Genetic Resources Laboratory (NPGRL)  
 Institute of Plant Breeding (IPB)  
 College of Agriculture  
 University of the Philippines at Los Baños (UPLB)  
 College, Laguna 3720

Telephone: (63) 833 3528  
 Telex: 3432 PTBLK PU  
 Cable: PLANTBREED PHILIPPINES

Curator/person in charge: N. C. Altoveros

Details of collection:

Vigna angularis, 4 cultivars/primitive landraces from India

V. radiata, 5736 accessions from Afghanistan, Australia, Bangladesh, Brazil, Burma, Canada, China, Congo, Côte d'Ivoire, Ecuador, Ethiopia, France, Ghana, Guatemala, Hong Kong, India, Indonesia, Iran, Iraq, Japan, Kenya, Korea, Madagascar, Middle East, Netherlands, Nigeria, Pakistan, Peru, Philippines, Sri Lanka, Somalia, Republic of South Africa, Taiwan (China), Tanzania, Thailand, Turkey, UK, USA, USSR and Vietnam

V. umbellata, 618 cultivars and landraces from China, Colombia, Indonesia and Philippines

V. unguiculata subsp. sesquipedalis, 71 commercial cultivars/hybrids from Costa Rica, Philippines and Poland

V. unguiculata var. sinensis, 71 accessions from Costa Rica, Philippines and Poland

V. unguiculata var. unguiculata, 1315 accessions from Bangladesh, Belgium, Colombia, Nigeria, Peru, Philippines, Puerto Rico, Taiwan (China), USA, and Zaire

Maintenance of collection: As seeds: long-term seed storage at -20°C (45 m<sup>3</sup>), medium-term seed storage at 4° to 5°C and 60% RH and active collection at 0°C, in airtight glass or tin containers. Seed moisture content is reduced to 6%

IBPGR designated base collection for cultivated V. radiata germplasm

Duplication of collection: Some V. radiata and V. unguiculata accessions donated by Punjab Agricultural University, PAU, India; RPIP, Iran; CSIRO, Australia; AVRDC, Taiwan, China. Some V. unguiculata subsp. sesquipedalis donated by CATIE, Costa Rica

Availability: Freely available

Quarantine: Phytosanitary certificate and import permit required

Evaluation: In progress. Agronomic and physiological studies have been initiated

Documentation: Partial and computerized on IBM 370 model 135 (OS/VSI system). Passport data available. N. G. Mamiepic is in charge of documentation

PORTUGAL

Núcleo de Melhoramento de Milho (NUMI)  
 Instituto Nacional de Investigação Agrária (INIA)  
 Quinta dos Peões - Gualtar  
 P-4700 Braga

Telephone: (53) 245 51/737 28  
 Telex: 33506 NUMI P  
 Cable:

Curator/person in charge: R. M. Farias

**PORTUGAL** (cont.)

**VIGNA**

Details of collection: Vigna unguiculata, 37 landraces from Portugal

Maintenance of collection: As seeds: long-term seed storage at -18°C and medium-term seed storage at -2°C and 0°C and 45% RH

Duplication of collection: Istituto del Germoplasma, Bari, Italy

Availability: Freely available in limited quantity

Quarantine: No restrictions for export but imported material must have phytosanitary certificate

Evaluation: None

Documentation: Computerized using IBM PC

**PORTUGAL**

Secção de Genética  
 Estação Agronómica Nacional  
 Instituto Nacional de Investigação Agrária (INIA)  
 P-2780 Oeiras

Telephone: (1) 443 04 42  
 Telex: 63698 EAN P  
 Cable:

Curator/person in charge: M. Mota

Details of collection: Vigna unguiculata, 50 accessions from Portugal (3) and Spain (47)

Maintenance of collection: As seeds: long-term seed storage at -18°C, in deep-freezers

Duplication of collection: Banco de Germoplasma, Alcalá de Henares, Spain

Availability: Freely available in limited quantity

Quarantine: No restrictions for export but imported material must have phytosanitary certificate

Evaluation: None

Documentation: Passport data computerized on Apple II. Print-outs available on request

**SENEGAL**

Maraîchage et Amélioration des Legumes  
 Centre pour Développement de l'Horticulture  
 Institut Sénégalais de Recherches Agricoles (ISRA)  
 Boite Postal 154, Dakar

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: Ndiaga Cisse

Details of collection: Vigna mungo, 10 cultivars from India (1), Indonesia (1), Philippines (7) and Taiwan, China (1)

Maintenance of collection: As seeds: short-term seed storage at 10°C (active collection)

Duplication of collection: ICRISAT, India and IITA, Ibadan, Nigeria

Availability: Freely available

Quarantine: No known restrictions

VIGNA

Evaluation: The collection has been evaluated for morphological, physiological and yield characters. Also resistance to bruchides

Documentation: Manual and partial

SPAIN

Banco de Germoplasma  
 Instituto Nacional de Investigaciones Agrarias (INIA)  
 Finca "El Encin"  
 P.O. Box 127  
 Alcala de Henares

Telephone: (1) 889 69 69/70  
 Telex: 48989 INIA E  
 Cable:

Curator/person in charge: The Director

Details of collection: Vigna unguiculata, 49 cultivars from Portugal

Maintenance of collection: As seeds: long-term seed storage at -18°C and medium-term seed storage at -4°C. Seed moisture content 5% to 7%, in glass vial containers

Duplication of collection: ZIGuK, Gatersleben, GBR; Istituto del Germoplasma, Bari, Italy; Cuzco, Peru and Oeiras, Portugal

Availability: Freely available on exchange basis

Quarantine: No known restrictions

Evaluation: Partial morpho-agronomical evaluation

Documentation: Computerized for passport data

TOGO

Direction de la Recherche Agronomique (DRA)  
 Boite Postale 2318  
 Cacavelli  
 Lomé

Telephone: 21 00 43  
 Telex:  
 Cable:

Curator/person in charge: T. B. Djaneve

Details of collection: Vigna mungo, 6 primitive cultivars and breeders' lines  
V. unguiculata, 113 primitive cultivars from Togo and germplasm donated by: IITA, Ibadan, Nigeria, advanced lines (50); Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières (IRAT), improved varieties (21)

Maintenance of collection: As seeds: medium-term seed storage at 5° to 10°C and 90% RH, in plastic and aluminium bags

Duplication of collection: Institut des Recherches Agronomiques Tropicales et des Cultures Vivrières (IRAT), Mali and at IITA, Ibadan, Nigeria

Availability: Freely available to research institutes and students

Quarantine: Phytosanitary certificate required for export and import

Evaluation: In progress

Documentation: Manual and complete for passport data

TURKEY

VIGNA

Plant Genetic Resources Research Institute  
 Aegean Agricultural Research Institute (AARI)  
 P.O. Box 9  
 35661 Menemen - Izmir

Telephone: (542) 115 52  
 Telex: 51293 AARI TR  
 Cable:  
 Telefax: (542) 127 92

Curator/person in charge: A. Tan

Details of collection: Vigna unguiculata, 31 landraces and primitive cultivars  
Vigna spp. from different regions and localities of Turkey, collected by AARI  
 and other missions

Maintenance of collection: As seeds: long-term seed storage at -15°C, in airtight tin cans. Medium-term  
 seed storage at 0°C. Pre-storage treatment includes reduction of seed moisture  
 content to 6% to 8% before storage in polyethylene covered tin cans. Relative  
 humidity is not controlled in the cold store. Volume of containers: 170cm<sup>3</sup>  
 long-term seed storage and 430cm<sup>3</sup> for medium-term seed storage

Duplication of collection: No information

Availability: Freely available, except for those needing multiplication and regeneration

Quarantine: All restrictions for import mentioned in the order of Government published in  
 State paper of 18.10.1976 No. 15738 must be observed. "Diseases, pests and  
 plants the importation of which is prohibited into the country" Turkish Republic  
 Ministry of Food, Agriculture and Animal Husbandry

Evaluation: Own descriptor lists used for evaluation. Characterization and/or evaluation  
 studies for certain diseases are being carried out. Characterization being  
 carried out at AARI

Documentation: Partly computerized. The data base with the most important descriptors, has  
 already been created for the 1970-80 collections and an Index Seminum has been  
 issued. The data management programmes in use are mainly EXIR 3.20 and Report  
 Generator

UGANDA

Department of Agriculture  
 Serere Research Station  
 Soroti

Telephone:  
 Telex:  
 Cable:

Curator/person in charge: T. E. Emeetai-Areke

Details of collection: Vigna unguiculata, 350 landraces, commercial cultivars and breeding lines

Maintenance of collection: As seeds: short-term seed storage at ambient temperatures, in 0.5kg capacity  
 paper bags

Duplication of collection: IITA, Ibadan, Nigeria

Available: Freely available

Quarantine: Phytosanitary certificate and import permit essential

Evaluation: Evaluated for diseases and pest resistance, high grain yield potential,  
 suitability of use as spinach, early maturity period and determinate growth

Documentation: Manual and partial

UNION OF THE SOVIET SOCIALIST REPUBLICSVIGNA

N. I. Vavilov All-Union Scientific Research  
Institute of Plant Industry (VIR)  
42-44, Herzen Street, 190000 Leningrad

Telephone: (314) 22 34 / 48 48  
Telex:  
Cable:

Curator/person in charge: V. I. Krivchenko

Details of collection: Vigna unguiculata subsp. cylindrica, 4 from Brazil, Kenya, Mali and USSR  
V. unguiculata subsp. sesquipedalis, 7 from Japan, India and USSR  
V. unguiculata subsp. unguiculata, 12 from Cuba, Iran, Iraq, P'gal, Syria, USSR  
There are many more accessions of Vigna species (including wild forms) in this collection but only the above are listed in the Delectus Seminum 1982-85

Maintenance of collection: As seeds: long-term seed storage at -10°C, in sealed cans. Medium-term seed storage at 4° to 5°C and 30% RH

Duplication of collection: No information

Availability: No information

Quarantine: Imported material must go through quarantine

Evaluation: No information

Documentation: Computerized and complete. A Delectus Seminum is periodically published listing samples available for exchange

UNITED STATES OF AMERICA

National Seed Storage Laboratory (NSSL)  
Colorado State University  
Fort Collins, Colorado 80523

Telephone: (303) 484 04 02  
Telex: 2377401714 DNPA UC  
Cable:  
Telefax: (303) 221 1427

Curator/person in charge: S. Eberhart

Details of collection: Vigna aconitifolia, 6 from Afghanistan and Pakistan, donated by Wash. P.I. Stat.  
V. angularis, 9 from Brazil, Japan and Korea, donated by Washington P.I. Station and Minnesota AES, USA  
V. caracalla, 1 from Brazil  
V. mungo, 14 from Pakistan, India and USA, donated by Georgia and Washington P.I. Stations and Oklahoma AES, USA  
V. radiata, 208 from Afghanistan, Australia, China, India, Iran, Nigeria, Pakistan, Philippines, Sweden, USA and Yugoslavia  
V. umbellata, 18 from Brazil, Congo, Côte d'Ivoire, Guatemala and India, donated by Washington P.I. Station, USA  
V. unguiculata, 609 from Afghanistan, Argentina, Australia, Botswana, Burma, Brazil, Cameroon, China, Colombia, Congo, Costa Rica, Cuba, Dominican Republic, Egypt, France, Ghana, Guatemala, Honduras, Hungary, India, Iran, Japan, Kenya, Madagascar, Mexico, Nigeria, Pakistan, Paraguay, Peru, Republic of South Africa, Spain, Turkey, Uganda, UK, Uruguay and Zimbabwe  
V. unguiculata var. cylindrica, 15 from India, Kenya, Nigeria, Pakistan, Turkey  
V. unguiculata subsp. sesquipedalis, 5 from Brazil, Fiji, Hong Kong, Nepal, Nicaragua  
V. wilmsii, 1 from USA  
2 unidentified Vigna spp. from Pakistan and USA

Maintenance of collection: As seeds: long-term seed storage at -14°C with no RH control, in hermetically sealed packets. Short-term seed storage at 5°C with RH control.

IBPGR designated base collection for V. unguiculata germplasm

UNITED STATES OF AMERICA (cont.)

VIGNA

- Duplication of collection: Vigna radiata germplasm partially duplicated at California Crop Improvement Association, Cornell, Missouri (now Keystone); Georgia P.I. Station; Oklahoma Agriculture Experiment Station  
V. unguiculata partially duplicated at Alabama, Florida, Georgia, Louisiana, Mississippi, Oklahoma, Texas and Virginia AES; Georgia and South Carolina USDA; Georgia P.I. Station and following private companies: California Crop Improvement Association; Chadbourne Seed Co., Texas; Doorman and Co., Texas; Ferry-Morse Seed Co., California; Hastings Co., Georgia; Wanigan Associates and West Millong Co., California
- Availability: Only if not available from other sources
- Evaluation: Responsibility for evaluation of all NSSL accessions lies with the USDA Regional Plant Introduction Stations who have active collections of the same material
- Documentation: Computerized inventory available. UNIVAC 1100/80 (EXEC.8 operating system) is used. Ms. L. Sennen is in charge of accessions

UNITED STATES OF AMERICA

Regional Plant Introduction Station (S-9)  
 Experiment, Georgia 30312

Telephone: (404) 228 72 55  
 Telex:  
 Cable:

Curator/person in charge:

G. R. Lovell

Details of collection:

Vigna spp., 8000 wild, primitive cultivars and landraces as follows:  
V. aconitifolia, 54 accessions from India (43), Pakistan (10) and Yemen (1)  
V. adenantha, 1 from Mexico  
V. ambacensis, 1 from Nigeria  
V. angularis, 42 accessions from Belgium (2), Brazil (5), China (2), India (1), Japan (11), Korea (13) and Taiwan, China (8)  
V. caracalla, 6 accessions from Brazil (5) and Guatemala (1)  
V. davyi, 1 from India  
V. decipiens, 1 from Republic of South Africa  
V. longifolia, 2 from Nigeria  
V. luteola, 10 accessions from Australia (1), Belgium (1), Brazil (2), India (2), Nigeria (1), Republic of South Africa (2) and USA (1)  
V. marina, 2 accessions from China (1) and Taiwan, China (1)  
V. membranacea, 1 from India  
V. minima, 1 from China  
V. mungo, 277 accessions from Afghanistan (5), Angola (1), Australia (6), Côte d'Ivoire (2), Guatemala (1), India (53), Iran (145), Nepal (1), Pakistan (57), Taiwan, China (1), Thailand (3), USA (1) and Venezuela (1)  
V. oblongata, 13 accessions from Australia (1), Belgium (1), Kenya (1) and Nigeria (10)  
V. parviflora from India (1)  
V. pubescens, 2 from Nigeria  
V. radiata, 3864 accessions from Afghanistan (228), Africa (2), Argentina (1), Australia (81), Bangladesh (1), Congo (1), Brazil (3), Burma (2), Canada (2), Sri Lanka (8), China (6), Colombia (1), Côte d'Ivoire (7), Cuba (1), Ecuador (1), France (20), Guam (1), Guatemala (4), Honduras (1), Hong Kong (18), India (1944), Indonesia (40), Iran (771), Iraq (4), Japan (1), Kenya (1), Korea (111), Madagascar (4), Mexico (1), Middle East (8), Nepal (3), Nigeria (12), China (5), Pakistan (87), Peru (4), Philippines (155), Republic of South Africa (1), Sri Lanka (2), Taiwan, China (48), Tanzania (1), Thailand (158), Turkey (15), AVDRC (unknown origin) (3), UK (23), USA (56), USSR (1), Vietnam (13), Yemen (1), Yugoslavia (1) and Zaire (1)

VIGNA

- Details of collection: (cont.)
- Vigna repens, 1 from Australia
- V. schimperi, 1 from Brazil
- V. trilobata, 1 from Côte d'Ivoire
- V. umbellata, 34 accessions from Brazil (2), Burma (1), Côte d'Ivoire (1), Guatemala (5), Honduras (1), India (7), Kenya (1), Nepal (2), USA (2) and Zaire (12)
- V. unguiculata, 3494 accessions from Afghanistan (27), Argentina (8), Australia (13), Austria (1), Bolivia (2), Botswana (3), Brazil (24), Burma (1), Cameroon (2), China (24), Colombia (4), Costa Rica (2), Cuba (2), Cyprus (2), Dominican Republic (2), East Africa (1), Ecuador (2), Egypt (3), El Salvador (1), Ethiopia (8), Fiji (1), Ghana (6), Guatemala (18), Haiti (1), Honduras (4), Hong Kong (1), Hungary (12), India (766), Iran (175), Iraq (1), Israel (2), Japan (2), Kenya (15), Lebanon (1), Madagascar (2), Malawi (1), Mexico (35), Mozambique (10), Nepal (2), Nicaragua (3), Niger (902), Nigeria (1026), Pakistan (30), Paraguay (8), Peru (8), Portugal (1), Zimbabwe (2), Saudi Arabia (1), Senegal (1), Solomon Islands (1), Somalia (1), Republic of South Africa (36), USSR (4), Spain (1), Sri Lanka (1), Surinam (1), Syria (1), Taiwan, China (2), Tanzania (31), Thailand (3), Turkey (41), Uganda (15), UK (6), Uruguay (1), USA (175), Venezuela (3), Yugoslavia (1) and Zaire (1)
- V. unguiculata subsp. cycli, 1 from Belgium
- V. unguiculata subsp. sesquipedalis, 82 accessions from China (3), India (1), Indonesia (6), Philippines (25), Taiwan, China (26), Thailand (2) and USA (9)
- V. vexillata, 16 accessions from Australia (1), Guiana (1), Costa Rica (1), Ethiopia (1), Nigeria (10) and Republic of South Africa (2)
- V. wilmsii, 4 accessions from Nigeria (1) and Republic of South Africa (3)
- V. wiltei, 1 from Nigeria
- Vigna spp., 23 unidentified accessions from Afghanistan (1), Costa Rica (1), Ecuador (1), Ethiopia (2), India (1), Kenya (1), Mexico (1), Nigeria (12), Pakistan (1), Republic of South Africa (1) and Zambia (1)

- Maintenance of collection: As seeds: medium-term seed storage at 4°C and 40% RH
- Duplication of collection: National Seed Storage Laboratory, Fort Collins, USA
- Availability: Available in small quantities for research purposes only
- Quarantine: Imports subject to USDA-APHIS quarantine procedures
- Evaluation: Evaluation is carried out by breeders in State Agricultural Stations and by USDA/ARS crop plant scientists
- Documentation: Partial and computerized

VENEZUELA

Sección de Leguminosas (Mej. Genético)  
 FONIAP - Región Central  
 Centro Nacional de Investigaciones  
 Agropecuarias (CENIAP)  
 Apartado 4653  
 Edo. Aragua, Maracay 2101

Telephone:  
 Telex:  
 Cable:

Contact person in charge: S. A. Ortega Y.

Details of collection: Vigna unguiculata, 347 primitive cultivars, commercial cultivars and breeding lines from Brazil, Puerto Rico, Nigeria and Venezuela

VENEZUELA (cont.)

VIGNA

|                            |   |
|----------------------------|---|
| Maintenance of collection: | As seeds: medium-term seed storage at 5°C and 50% RH, in containers with 50g seed |
| Duplication of collection: | No information  |
| Availability:              | Freely available in limited quantity (100g per sample)                            |
| Quarantine:                | No known restrictions   |
| Evaluation:                | Evaluation has commenced using descriptors of international institutes            |
| Documentation:             | Partial and manual. A computer system to be installed                             |

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