IBPGR

DIRECTORY OF GERMPLASM COLLECTIONS

food legumes

(Soyabean)

IBPGR Directories of Germplasm Collections

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

1/ At present being revised and will be published in early 1986
2/ At present revised and including new chapter covering other roots and tubers. Will be published in early 1986
3/ At present being revised and will be published in mid-1986
4/ Out of print. New version required.
5/ At present being revised and will be published in late 1986
6/ Now in preparation

Soyabean Directory

USER EVALUATION FORM

(1) Response from:-

NAME: DATE:

POSITION:

MAIN ACTIVITY:

INSTITUTE:

(2) Source. This Directory was obtained:

By specific request to IBPGR (_) From an IBPGR Regional Co-ordinator (_)

By normal IBPGR mailing list (_) Courtesy copy to contributors (_)

Other (please specify) (_) _____

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(3) Is this Directory regarded as:

A personal copy (_) A library/reference room copy (_)

Other (please specify) (_) _____

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(4) How many people are likely to use this copy? _____

(5) In general, this directory is:

Not useful at all (_) Used only to verify addresses (_)

Used to verify holdings of collections known to you (_) Used to identify new sources of germplasm for your work (_)

Other (please specify) (_) _____

PLEASE TURN OVER.....

(6) Would this Directory be more use to you if available in another major language? NO (_) YES (_) If so, which? _____

(7) In order to keep this Directory to a manageable size only summary information can be included. Within the limits this imposes, are there any entries that should be in greater detail, or are there any categories of information that should be included in addition? Please specify, using additional sheets as needed.

(8) Our aim is to make the Directories as comprehensive and accurate as possible. If you are aware of any institutes conserving collections of crop germplasm but not included in this Directory could you please give us their address and the name of the curator, together with an outline of their collection

(9) Any other comments you may have:

Please return this form to:

The Information Officer,
International Board for Plant Genetic Resources,
c/o AGP Division,
Food and Agriculture Organization of the United Nations
Via delle Terme di Caracalla
I-00100 Rome
ITALY

October, 1985

INTERNATIONAL BOARD FOR PLANT GENETIC RESOURCES

DIRECTORY OF GERMPLASM COLLECTIONS

1. II. FOOD LECUMES (SOYABEAN)

by

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International Soybean Program
University of Illinois at Urbana-Champaign, USA

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United States Department of Agriculture-Agricultural Research Service
Department of Agronomy
University of Illinois at Urbana-Champaign, USA

H. E. Kauffman
International Soybean Program
University of Illinois at Urbana-Champaign, USA

IBPGR Secretariat, Rome
INTSOY, Urbana-Champaign
1985

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). The IBPGR was established by the CGIAR in 1974 and its Executive Secretariat is provided by the Food and Agriculture Organization of the United Nations. The basic function of the 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. The Consultative Group mobilizes financial support from its members to meet the budgetary requirements of the Board.

Single copies of this publication may be obtained by writing to INTSOY at the following address:

International Soybean Program (INTSOY)
College of Agriculture
University of Illinois
113 Mumford Hall
1301 West Gregory Drive
Urbana, Illinois 61801, USA

Cable: INTSOY
Telex: 206957 INTAG URBA
Telephone: 217-333-6422

IBPGR internal document number: 85/51

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IBPGR Executive Secretariat
Crop Genetic Resources Centre
Plant Production and Protection Division
Food and Agriculture Organization of the United Nations
Via delle Terme di Caracalla, 00100 Rome, Italy

FOREWORD

With the development of a global network of genetic resources activities it has become increasingly apparent that there is an information gap relating to what material is held where. This gap will persist until all major collections are adequately documented and information as well as samples readily exchanged.

The IBPGR started, in 1980, to issue directories of collections which should not only be useful to scientists involved with genetic resources but also stimulate curators to provide more detailed information.

In August 1982, the IBPGR sponsored a working group on the genetic resources of Glycine species in conjunction with the International Soybean Program (INTSOY). The purpose of the meeting was to review the current status of soyabean germplasm worldwide and to formulate a comprehensive plan uniting the various aspects of germplasm identification, acquisition, documentation, evaluation, and preservation. As a first step toward achieving a worldwide soyabean germplasm network, the working group recommended the preparation of an international directory of soyabean germplasm collections. This task has been delegated to INTSOY which coordinates annual international soyabean variety trials, and as such is a major distributor of soyabean germplasm throughout the world.

To obtain the most accurate information, a questionnaire was sent to over 200 institutions in over 80 countries. This directory has been compiled from the response of 87 institutions in 43 countries to this questionnaire. Several institutes, which were known to maintain significant soyabean germplasm collections but which did not respond to the questionnaire, are included based on information from other sources. Information not obtained directly from the questionnaire is footnoted and its source indicated in Appendix I. Quarantine information was provided by the United States Department of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine, Federal Building, Hyattsville, Maryland.

It is our intention to keep the directories under continuing review and to issue revisions as and when necessary. So that future editions may be more complete, the authors would appreciate receiving information about any omitted collections and any major changes in the information listed in this directory.

J. T. Williams
Executive Secretary

ACRONYMS

ARARI	- Aegean Regional Agricultural Research Institute (Turkey)
AVRDC	- Asian Vegetable Research and Development Center (China, Taiwan Province)
BORIF	- Bogor Research Institute for Food Crops (Indonesia)
CAAS	- Chinese Academy of Agricultural Sciences (China)
CARI	- Central Agricultural Research Institute (Sri Lanka)
CENARGEN	- Centro Nacional de Recursos Genéticos (Brazil)
CENIAP	- Centro Nacional de Investigaciones Agropecuarias (Venezuela)
CGIAR	- Consultative Group on International Agricultural Research
CNPSo	- Centro Nacional de Pesquisa de Soja, EMBRAPA (Brasil)
COMECON	- Council for Mutual Economic Assistance
CSIRO	- Commonwealth Scientific and Industrial Research Organization (Australia)
EMBRAPA	- Empresa Brasileira de Pesquisa Agropecuária (Brasil)
ENSAT	- Ecole Nationale Supérieure Agronomique de Toulouse (France)
FAL	- Institut für Pflanzenbau und Pflanzenzüchtung der Bundesforschungsanstalt für Landwirtschaft (Germany, Federal Republic)
FAO	- Food and Agriculture Organization of the United Nations
GLIP	- Grain Legume Improvement Programme (Nepal)
IAN	- Instituto Agronomico Nacional (Paraguay)
IBPGR	- International Board for Plant Genetic Resources - CGIAR
ICA	- Instituto Colombiano Agropecuaro (Colombia)
ICCPT	- Research Institute for Cereals and Industrial Crops (Romania)
IHAR	- Plant Breeding and Acclimatization Institute (Poland)
IIPR	- Institute of Introduction and Plant Resources (Bulgaria)
IITA	- International Institute of Tropical Agriculture - CGIAR
INIA	- Instituto Nacional Investigaciones Agrarias (Spain)
INRA	- Institut National de la Recherche Agronomique (France)
INTA	- Instituto Nacional de Tecnologia Agropecuaria (Argentina)
INTSOY	- International Soybean Program
IPB	- Institute of Plant Breeding, UPLB (Philippines)
JNKVV	- Jawaharlal Nehru Krishi Vishwa Vidyalaya (India)
MAAHF	- Ministry of Agriculture, Animal Husbandry and Fisheries (China)
MARIF	- Malang Research Institute for Food Crops (Indonesia)
NBPGR	- National Bureau of Plant Genetic Resources (India)
NIAR	- National Institute of Agrobiological Resources (Japan)
NIAVT	- National Institute for Agrobotany Variety Testing (Hungary)
NPGRL	- National Plant Genetic Resources Laboratory (Philippines)
NSSL	- National Seed Storage Laboratory (USA)
ORD	- Office of Rural Development (Korea, Republic of)
PGRC	- Plant Gene Resources of Canada (Canada)
SURIF	- Sukamandi Research Institute for Food Crops (Indonesia)
TARI	- Taiwan Agricultural Research Institute (China, Taiwan Province)
UPLB	- University of the Philippines at Los Baños (Philippines)
USDA	- United States Department of Agriculture (USA)
VIR	- N.I. Vavilov Institute of Plant Industry (USSR)
ZIGuK	- Zentralinstitut für Genetik und Kulturpflanzenforschung (German Democratic Republic)

CONTENTS

ORIGIN, HISTORY, AND TAXONOMY OF THE SOYABEAN

The species in the genus Glycine and their geographical distribution are listed in the following table.

Genus: Glycine	
Subgenus: Soja (annual)	
G. max (L.) Merr. (soyabean)	Cultigen of eastern Asia, now grown worldwide
G. soja Sieb. & Zucc. (wild soyabean)	China, Japan, Korean peninsula, USSR
Subgenus: Glycine (perennial)	
G. argyrea Tindale	Australia
G. canescens F. J. Herm.	Australia
G. clandestina Wendl.	Australia
G. cyrtoloba Tindale	Australia
G. falcata Benth.	Australia
G. latifolia (Benth.) Newell & Hymowitz	Australia
G. latrobeana (Meissn.) Benth.	Australia
G. tabacina (Labill.) Benth.	Australia, China (Fujian, Taiwan), Japan (Ryukyu Islands), South Pacific Islands
G. tomentella Hayata	Australia, China (Fujian, Taiwan), Philippines, Papua New Guinea

Cultivated Soyabean

The cultivated soyabean, Glycine max (L.) Merr., until recent times was grown almost entirely in the countries of eastern Asia. It was of major importance as a food crop in China, Japan, and the Korean peninsula and presumably was first cultivated in China over 3,000 years ago. It has also long been grown in Southeast Asia and in eastern Siberia adjacent to China. In a region extending from northern India, Nepal, and Bhutan through northern Pakistan into Afghanistan, small, dark seeded primitive types are grown and presumably this is also an area of ancient cultivation.

The soyabean was brought to North America some 200 years ago and even earlier to Europe. In the USA, it attained some success as a forage crop and was occasionally grown as a food crop especially by Asian immigrants. Its first great development as an industrial crop took place in the late 1800's in northeastern China ("Manchuria") where the oil was extracted for human food use and the high-protein meal was used as human food, animal feed, and fertilizer.

During the past 50 years, the soyabean has become a major crop in North America (USA and Canada) and more recently in South America (Brazil, Argentina, and Paraguay) with large tonnages being shipped to Europe and eastern Asia. Most of this production is processed, with the oil being extracted and made into food products (margarine, salad dressing, cooking oil, etc.) and the meal going into poultry and livestock feeding rations. The use of this high-protein meal has revolutionized poultry and livestock production by greatly increasing the efficiency of egg and meat production.

Over 90% of the world's soyabeans are now grown in the four countries of the USA (56%), Brazil (17%), China (11%), and Argentina (7%) (1984 production figures). Most of the remaining production is in the following 11 countries (each with 1% or less of the world's total): Canada, India, Indonesia, Japan, People's Democratic Republic of Korea, Republic of Korea, Mexico, Paraguay, Romania, Thailand, and the USSR.

Wild Soyabean

The range of wild soyabean, Glycine soja Sieb. and Zucc., is restricted to the countries of China (from Heilongjiang to Taiwan to Tibet), Japan (from Hokkaido to Kyushu, rare in Hokkaido, not found in the Ryukyu Islands), the Korean peninsula, and the USSR (eastern Siberia regions of Amur, Khabarovsk, and Primorsky). It occurs in open areas such as river bottoms and meadows, disturbed areas such as roadsides, and in urban areas on unused land and under hedgerows where mowing has not eradicated it. It is rather common in much of its range.

The wild soyabean can be hybridized readily with the cultivated soyabean, and might be considered the same species were it not so different morphologically (small seeds, leaves, and flowers, and very viny stems). Occasionally hybrids between wild and cultivated soyabeans are found naturally occurring in eastern Asia. Some true-breedin semi-wild or weedy types also occur (and have occasionally been given Latin names, e.g. G. gracilis Skvortzow). Some of these may be relicts of an intermediate step in the development of the cultivated soyabean and some may be derived from hybridization between the wild and cultivated species. The wild soyabean is occasionally harvested as forage in China but is not known to be grown as a cultivated crop.

Perennial Species

At present, the subgenus Glycine consists of nine perennial species, none of which are grown in cultivation. All are native to Australia and seven are restricted to Australia, while the ranges of the other two extend to southern China and islands of the South Pacific. Only recently have some of these species been hybridized with the soyabean (by means of embryo or immature seed culture). The resulting hybrid plants are sterile. However, it seems likely that these species may become part of the genepool for soyabean in the future with more advanced techniques.

Summary List of Soyabean Germplasm Collections

Country	Institute	Number of accessions			Page
		G. max soyabean	*G. soja* wild soyabean	Perennial *Glycine*	
Argentina	Instituto Nacional de Tecnologia Agropecuaria (INTA), Paraná	400	-	-	11
	Estación Experimental Agropecuaria Pergamino, Pergamino	600	-	-	11
Australia	CSIRO, Division of Plant Industry, Canberra	-	-	635	11
	CSIRO, Division of Tropical Crops and Pastures, St. Lucia, Queensland	1600	60	88	12
Austria	Institute for Crop Science and Plant Breeding, Vienna	300	-	-	13
Bangladesh	Bangladesh Agricultural University, Mymensingh	38	1	2	13
Bolivia	Centro de Investigación Agrícola Tropical, Santa Cruz de la Sierra	100	-	-	14
Brazil	Centro Nacional de Recursos Genéticos (CENARGEN), EMBRAPA Brasília	1977	-	-	14
	Centro Nacional de Pesquisa de Soja (CNPSo), EMBRAPA, Londrina	2022	-	-	15
Bulgaria	Institute of Introduction and Plant Genetic Resources (IIPR) Sadovo	1265	-	-	16
Canada	Plant Gene Resources of Canada (PGRC), Ottawa Research Station, Ottawa, Ontario	626	-	-	16
China	Institute of Crop Breeding and Cultivation, CAAS, Beijing	1200	-	-	17
	Institute of Crop Germplasm Resources, CAAS, Beijing	-	400	-	17

Summary List of Soyabean Germplasm Collections (continued)

Country	Institute	Number of accessions			Page
		G. max soyabean	*G. soja* wild soyabean	Perennial *Glycine*	
China (continued)	Institute of Crop Breeding and Cultivation, Anhui Academy of Agricultural Sciences, Hefei, Annui Province	500	-	-	18
	Heilongjiang Academy of Agricultural Sciences, Harbin, Heilongjiang Province	1555	400	-	18
	Institute of Crop Breeding and Cultivation, Hebei Academy of Agricultural Sciences, Shijiazjing, Hebei Province	276	-	-	19
	Oil Bearing Crops Research Institute, CAAS, Wuhan, Hubei Province	766	-	-	19
	Hunan Academy of Agricultural Sciences, Changsha, Hunan Province	507	45	-	20
	Nanjing Agricultural College, Nanjing, Jiangsu Province	2168	-	-	20
	Economic Crops Research Institute, Jiangsu Academy of Agricultural Sciences, Nanjing, Jiangsu Province	1199	-	-	21
	Soybean Research Institute, Jilin Academy of Agricultural Sciences, Gongzhuling, Jilin Province	4200	600	-	21
	Tieling District Agricultural Research Institute, Tieling, Liaoning Province	987	-	-	22
	Institute of Economic Crop Sciences, Shaanxi Academy of Agricultural Sciences, Wugong, Shaanxi Province	965	-	-	22
	Institute of Crop Breeding and Cultivation, Shandong Academy of Agricultural Sciences, Jinan, Shandong Province	535	-	-	23

	Shanghai Academy of Agricultural Sciences, Shanghai	100	-	-	23
China, Taiwan	Asian Vegetable Research and Development Center (AVRDC), Tainan	11926	344	53	23
	Taiwan Agricultural Research Institute (TARI), Taichung	3550	46	-	24
	National Chung-Hsing University, Taichung	305	20	-	24
Colombia	Instituto Colombiano Agropecuaro (ICA), Palmira	550	3	-	25
Czechoslovakia	Plant Breeding Research Institute of Technical Crops and Legumes, Sumperk	500	-	-	25
	Research Institute of Plant Production, Piestany	273	-	-	26
France	Station d'Amélioration des Plantes, INRA, Mauguio	800	6	-	26
	G.I.E. Amélioration Fourragère, Provins	1582	-	-	27
	Ecole Nationale Supérieure Agronomique de Toulouse (ENSAT), Toulouse	500	-	-	27
	Etablissements Tourneur Frères, Coulommiers	100	-	-	27
German Democratic Republic	Zentralinstitut für Genetik und Kulturpflanzenforschung (ZIGuK), Gatersleben	2761	2	-	28
Germany, Federal Republic of	Institut für Pflanzenbau und Pflanzenzüchtung, Bundesforschungsanstalt für Landwirtschaft (FAL), Braunschweig	80	0	0	28
Greece	Cotton and Industrial Plants Institute, Thessaloniki	74	-	-	29
Hungary	NIAVT, Research Centre for Agrobotany, Tapioszele	484	-	-	29
	Research Institute of Forage Crops, Iregszemcse	90	-	-	30
India	All India Coordinated Research Project on Soybean, G.B. Pant University of Agriculture and Technology, Pantnagar	4015	7	-	30

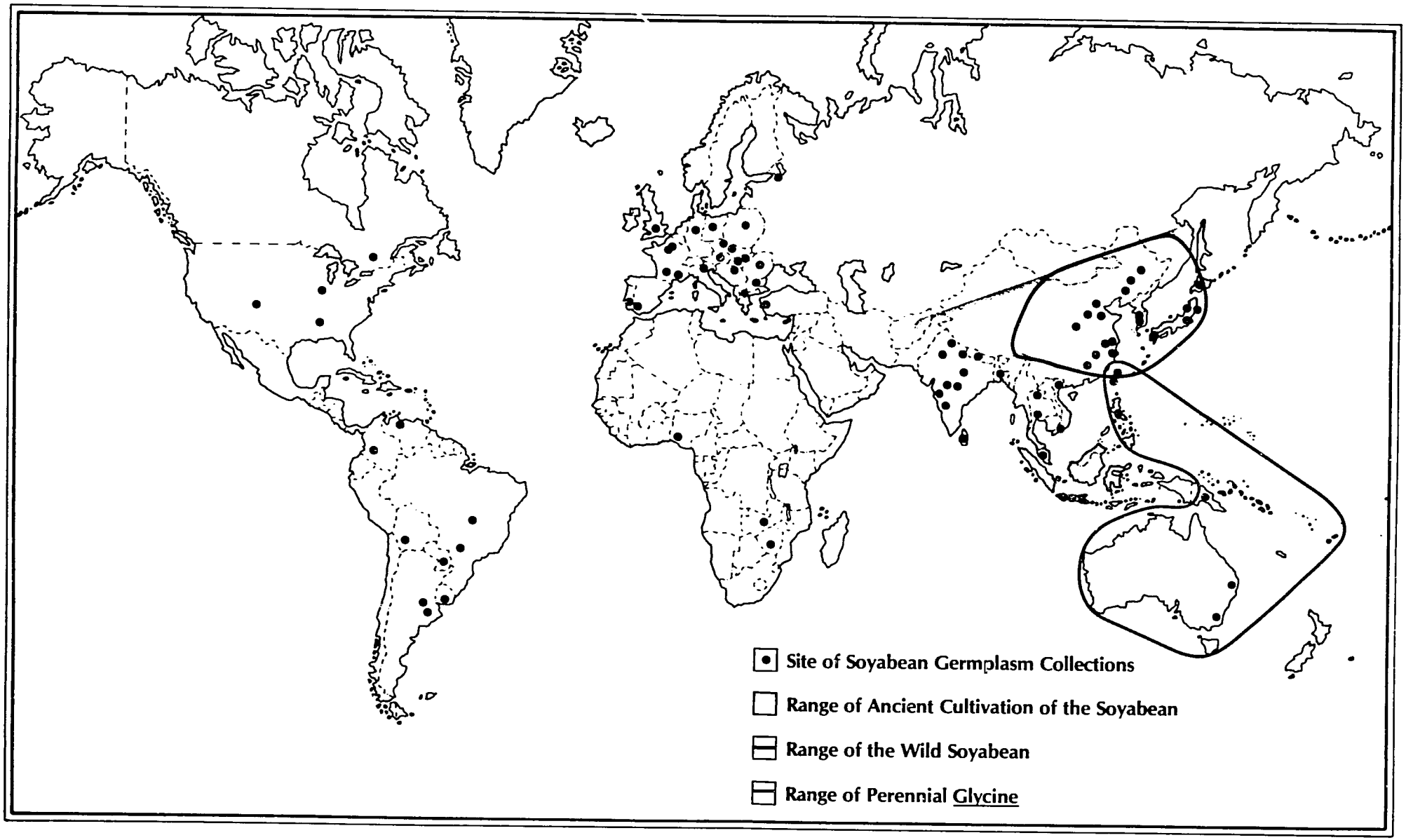
Summary List of Soyabean Germplasm Collections (continued)

Country	Institute	Number of accessions			Page
		G. max soyabean	*G. soja* wild soyabean	Perennial *Glycine*	
India (continued)	National Bureau of Plant Genetic Resources (NBPGR), Akola	1939	-	-	30
	Maharashtra Association for the Cultivation of Science, Pune	1801	6	-	31
	Marathwada Agriculture University, Parbhani	125	-	-	31
	Haryana Agriculture University, Hissar	350	-	-	32
	Jawaharlal Nehru Krishi Vishwa Vidyalaya (JNKVV), Jabalpur	385	-	-	32
	S.K. University of Agriculture and Technology, Shalimar	105	1	-	32
	College of Agriculture, (U.A.S.), Dharwar	30	-	-	33
Indonesia	Sukamandi Research Institute for Food Crops (SURIF), Sukamandi	2194	4	-	33
	Bogor Research Institute for Food Crops (BORIF), Bogor	500	4	-	34
	Malang Research Institute for Food Crop (MARIF), Malang	318	-	-	34
Italy	Istituto Di Agronomia, Università Degli Studi, Padova	288	-	-	35
Japan	National Institute of Agrobiological Resources (NIAR), Tsukuba	3741	-	-	35
	Tohoku National Agricultural Experiment Station, Kariwano	1400	3	-	36
	Tokachi Agricultural Experiment Station, Memuro	550	15	-	36
	Iwate University, Morioka	-	151	23	37
	Kyushu National Agricultural Experiment Station, Nishigoshi	433	-	-	37

Korea, Republic of	Crop Experiment Station, Office of Rural Development (ORD), Suweon	3678	342	-	38
	Kyung-Hee University, Seoul	2800	-	-	38
Malaysia	University of Agriculture at Serdang and the University of Malaya at Kuala Lumpur	60	-	-	39
Nepal	Grain Legume Improvement Programme (GLIP), Kathmandu	41	-	-	39
Nigeria	International Institute of Tropical Agriculture (IITA), Ibadan	1377	-	-	40
Papua New Guinea	Bubia Agriculture Research Centre, Lae	150	-	-	40
Paraguay	Instituto Agronomico Nacional (IAN), Caacupe	Unspecified	-	-	41
Philippines	National Plant Genetic Resources Laboratory (NPGRL), University of the Philippines at Los Baños (UPLB), Laguna	1508	-	-	41
Poland	Plant Breeding and Acclimatization Institute (IHAR), Radzikow	954	4	-	42
Portugal	Estação Agronómica Nacional, Oeiras	129	-	-	42
Romania	Research Institute for Cereals and Industrial Crops (ICCPT), Fundulea	1800	-	5	43
Spain	Instituto Nacional Investigaciones Agrarias (INIA), Sevilla	149	-	-	43
Sri Lanka	Central Agricultural Research Institute (CARI), Gannoruwa, Peradeniya	300	-	-	44
Thailand	Mae Jo Fieldcrop Research Centre, Chiang Mai	300	-	-	44
	Kasetsart University, Bangkok	100	-	-	45
Turkey	Aegean Regional Agricultural Research Institute (ARARI), Menemen	194	-	-	45

Summary List of Soyabean Germplasm Collections (continued)

Country	Institute	Number of accessions			Page
		G. max soyabean	*G. soja* wild soyabean	Perennial *Glycine*	
USSR	N.I. Vavilov All-Union Institute of Plant Industry (VIR), Leningrad	4500	200	-	45
United Kingdom	University of Reading, Reading	42	-	-	46
USA	National Seed Storage Laboratory (NSSL), Ft. Collins, Colorado	10242	638	-	46
	USDA, University of Illinois, Urbana, Illinois	7627	675	66	47
	USDA, Stoneville, Mississippi	3000	-	-	48
	INTSOY, University of Illinois, Urbana, Illinois	1009	-	-	48
	Department of Agronomy, University of Illinois, Urbana, Illinois	-	-	450	49
Uruguay	Estación Experimental la Estanzuela, Colonia	265	-	-	49
Venezuela	Centro Nacional de Investigaciones Agropecuarias (CENIAP), Maracay	177	-	-	50
Vietnam	National Institute of Agriculture Sciences, Hanoi	458	-	-	50
	University of Cantho, Hau Gang	400	-	-	51
Yugoslavia	Institute of Field and Vegetable Crops, Novi Sad	1401	-	-	51
Zambia	Regional Research Station, Magoye	727	-	-	51
Zimbabwe	Crop Breeding Institute, Causeway, Harare	2236	-	-	52


Site of Soyabean Germplasm Collections
Range of Ancient Cultivation of the Soyabean
Range of the Wild Soyabean
Range of Perennial Glycine

ARGENTINA

Instituto Nacional de Tecnologia Agropecuaria (INTA)
c.c. 128
3100 - Paraná - Entre Rios

Telephone:
Telex:
Cables:

Curator/person in charge:	R. Vicentini
Details of collection:	G. max 400 accessions from Argentina, Brazil, China (Taiwan), India, Japan, Philippines, Romania, USA, and Vietnam
Maintenance of collection:	Seed stored at ambient temperature, active collection
Duplication of collection:	Partly duplicated at the Germplasm Bank in Pergamino
Availability:	Seed freely available in limited quantity (50 seeds per request)
Quarantine:	Phytosanitary export certificate certified by the Argentine Consul in country of origin is required for seed importation
Evaluation:	Phenological characteristics, grain yield, and disease resistance evaluated; screened for resistance to Nezara viridula (southern green stinkbug), and adaptation to clay soils
Documentation	Complete and manual inventory list

ARGENTINA

Estación Experimental Agropecuaria Pergamino
Casilla De Correo No. 31
2700 Pergamino (BS. AS.)

Telephone:
Telex: 2057 INTAEXPERIN
Cables:

Curator/person in charge:	N. Mancuso
Details of collection:	G. max 600 commercial cultivars from Asia, Brazil, Japan, and USA
Maintenance of collection:	Seed stored in hermetically sealed cans at -18°C with a moisture content of 5 to 7%
Duplication of collection:	Duplicated at the Experiment Station in Marcos Juarez
Availability:	Seed not available
Quarantine:	Phytosanitary export certificate certified by the Argentine Consul in country of origin is required for seed importation
Evaluation:	No information
Documentation:	Manual inventory list

AUSTRALIA

Commonwealth Scientific and Industrial Research Organization (CSIRO)
Division of Plant Industry
P.O. Box 1600
Canberra, A.C.T. 2601

Telephone: (062) 46 4911
Telex: Canberra 62351 PICAN
Cables:

Curator/person in charge: A.H.D. Brown

AUSTRALIA (continued)

Details of collection:

G. canescens 71 accessions
G. clandestina 127 accessions
G. falcata 8 accessions
G. latifolia 26 accessions
G. latrobeana 12 accessions
G. tabacina 110 accessions where 2n = 40
G. tabacina 119 accessions where 2n = 80
G. tomentella 135 accessions
Perennial Glycine species 27 undescribed accessions
Total: 635 accessions

All accessions collected from Australia, China (Taiwan), France (New Caledonia), Japan (Ryukyus), Marianas, and Papua New Guinea

Maintenance of collection:

Seed of active collection stored at ambient temperature; additional seed of 190 accessions stored in sealed aluminium foil packets at 2°C with a moisture content of 7%

IBPGR Designated Base Collection. CSIRO has accepted responsibility for maintaining a global collection of perennial Glycine species for long-term conservation at -18°C as a base collection within the IBPGR network of designated genebanks

Duplication of collection:

Majority duplicated at the University of Illinois, USA

Availability:

Seed of over 90% of collection freely available in limited quantity

Quarantine:

Import permit issued from each respective Australian State of destination prior to shipment is required. Seed must be inspected and declared free of all species of the genus Trogoderma

Evaluation:

No information

Documentation:

Complete and manual list of accession collection sites.
Computerized inventory list is proposed

AUSTRALIA

Commonwealth Scientific and Industrial Research Organization (CSIRO)
Division of Tropical Crops and Pastures
306 Carmody Road
St. Lucia
Queensland 4067

Telephone: (07) 377 0209
Telex: 42159
Cables:

Curator/person in charge:

R.J. Williams

Details of collection:

G. max 1600 accessions
G. soja 60 accessions
G. argyrea 1 accession
G. canescens 7 accessions
G. clandestina 14 accessions
G. cyrtoloba 2 accessions
G. falcata 9 accessions
G. tabacina 19 accessions
G. tomentella 36 accessions

All accessions are from low latitudes (<40°)

Maintenance of collection:	Seed stored at 5° to 10°C with 35% RH; and in sealed packages at -20°C
Duplication of collection:	Not duplicated
Availability:	Seed freely available
Quarantine:	Import permit issued from each respective Australian state of destination prior to shipment is required. Seed must be inspected and declared free of all species of the genus Trogoderma
Evaluation:	Active collection for tropical and subtropical soyabean selection, descriptor list in preparation
Documentation:	Complete and computerized inventury list (weights, years, harvest location) and passport information (donors, previous numbers, etc.)

AUSTRIA[4]

Institute for Crop Science and Plant Breeding
University of Agriculture
Gregor Mendelstrasse 33
A-1180 Wien (Vienna)

Telephone: (0222) 34 25 00
Telex:
Cables:

Curator/person in charge:	R. Gretzmacher
Details of collection:	G. max 300 cultivars and breeding lines
Maintenance of collection:	Active collection
Duplication of collection:	No information
Availability:	Seed freely availabl for research purposes on an exchange basis
Quarantine:	Import permit and phytosanitary export certificate issued not more than 3 weeks prior to shipment are required
Evaluation:	No information
Documentation:	Index Seminum of accessions available for exchange issued at regular intervals

BANGLADESH

Department of Genetics and Plant Breeding
Bangladesh Agricultural University
Mymensingh

Telephone: 4191 93
Telex:
Cables:

Curator/person in charge:	M.A. Newaz
Details of collection:	G. max 38 accessions G. soja 1 accession G. tabacina 1 accession G. tomentella 1 accession From AVRDC, INTSOY, and Philippines (UPLB)
Maintenance of collection:	Seed stored at ambient temperature up to 6 months in polyethylene bags, with a moisture content of 10 to 12%

BANGLADESH (continued)

Duplication of collection:	May be partly duplicated at donor institutes
Availability:	Seed freely available; the University is a major source of seed for planting in Bangladesh
Quarantine:	Import permit and phytosanitary certificate are required prior to shipment
Evaluation:	Partial evaluation data from several test locations
Documentation:	Complete and manual inventory list, annual project reports, and research papers

BOLIVIA

Centro de Investigación Agrícola Tropical
Av. Ejercito 131
Casilla 247
Santa Cruz de la Sierra

Telephone:
Telex:
Cables:

Curator/person in charge:	A. Tejerina
Details of collection:	G. max 100 cultivars from AVRDC, Brazil (EMBRAPA), Colombia (ICA), IITA, and INTSOY
Maintenance of collection:	Seed stored at ambient temperature, new seed conservation storage facility planned, active collection
Duplication of collection:	May be partly duplicated at donor institutes
Availability:	No information
Quarantine:	Import permit and phytosanitary certificate certified by the Bolivian Consul in the country of origin are required
Evaluation:	No information
Documentation:	No information

BRAZIL

Centro Nacional de Recursos Genéticos (CENARGEN)
Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA)
Caixa Postal 102372
70770 - Brasília - DF

Telephone: 272 4203/272 0253
Telex: (061) 1622 CNRG
Cables: 273-0100

Curator/person in charge:	M.M. Wetzel
Details of collection:	G. max 1977 accessions from China (including Taiwan), India, Indonesia, Japan, Korean peninsula, South Africa, Uganda, USA, Venezuela, and other countries Centre coordinates all plant introductions and germplasm exchanges for Brazil, including related basic research
Maintenance of collection:	Long-term seed storage in hermetically sealed containers at -18°C with a moisture content of 4 to 6%
Duplication of collection:	Duplicated at the Centro Nacional de Pesquisa de Soja (CNPSo), Londrina
Availability:	Seed freely available

Quarantine: Import permit and phytosanitary export certificate certified by the Brazilian Consul are required. Seeds must be declared apparently free from all virus diseases and Asian rust

Evaluation: Complete characterization for 17 descriptors (plant height, growth habit, flowering date, flower colour, height of first pod, pod colour, pubescence colour, pubescence type, maturity date, lodging, shattering at maturity, shattering 15 to 20 days after maturity, seed coat colour, seed coat luster, hilum colour, cotyledon colour, and weight of 100 seeds) and screened for 8 diseases (soyabean mosaic virus, Brazilian bud blight, brown spot, frogeye leafspot, mildew, bacterial blight, bacterial pustule, and wildfire)

Documentation: Complete and computerized for 1667 accessions using the SICAPRE information data bank.
Details of collection (inventory list, passport information, and evaluation data) have been published in. Centro Nacional de Recursos Genéticos (CENARGEN), 1982. Catálogo de Germoplasma de Soja (Glycine max (L.) Merrill). 192 p. Documentos, 3. EMBRAPA-CENARGEN, Brasília

BRAZIL

Centro Nacional de Pesquisa de Soja (CNPSo)
Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA)
Rod. Celso Garcia Cid, km 375
Caixa Postal 1061
86.100 - Londrina, PR.

Telephone: 23 9719/23 9850
Telex: (0432) 208
Cables:

Curator/person in charge: O.C. Menosso

Details of collection: G. max 2022 accessions from China, India, Japan, Philippines, USA, and other countries

Maintenance of collection: Seed stored at 10°C with 40% RH for 2 to 3 years, active collection

Duplication of collection: Duplicated at CENARGEN Brasília

Availability: Seed freely available in limited quantity (100 seeds per request). All requests should be addressed to:
M.M. Wetzel
Centro Nacional de Recursos Genéticos - CENARGEN-EMBRAPA
Caixa Postal 102372
70770 - Brasília - DF

Quarantine: Import permit and phytosanitary export certificate certified by the Brazilian Consul are required. Seed must be declared apparently free from all virus diseases and Asian rust

Evaluation: Complete characterization for 17 descriptors (plant height, growth habit, flowering date, flower colour, height of first pod, pod colour, pubescence colour, pubescence type, maturity date, lodging, shattering at maturity, shattering 15 to 20 days after maturity, seed coat colour, seed coat luster, hilum colour, cotyledon colour, and weight of 100 seeds) and screened for 8 diseases (soyabean mosaic virus, Brazilian bud blight, brown spot, frogeye leafspot, mildew, bacterial blight, bacterial pustule, and wildfire)

BRAZIL (continued)

Documentation: Complete and computerized for 1667 accessions using the SICAPRE information data bank.
Details of collection (inventory list, passport information, and evaluation data) have been published in: Centro Nacional de Recursos Genéticos (CENARGEN), 1982. Catálogo de Germoplasma de Soja (Glycine max (L.) Merrill). 192 p. Documentos, 3. EMBRAPA-CENARGEN, Brasília

BULGARIA

Institute of Introduction and Plant Genetic Resources (IIPR)
4122 Sadovo
Plovdiv

Telephone: (993118) 22 21
Telex: 44444 ZOS BG
Cables:

Curator/person in charge: N.C. Tzvetkov

Details of collection: G. max 1265 accessions from Bulgaria, Canada, China, Czechoslovakia, France, German Democratic Republic, Hungary, Italy, Korean peninsula, Japan, Mexico, Poland, Romania, USSR, United Kingdom, USA, and Yugoslavia

Maintenance of collection: Seed of 786 accessions stored at ambient temperature, active collection; long-term storage of 479 accessions in glass jars at -18°C with a moisture content of 3 to 7%

Duplication of collection: Partly duplicated at the Soybean Institute, Pavlikeni

Availability: Seed of accessions in long-term storage freely available in limited quantity

Quarantine: Both import permit, issued prior to shipment, from the Plant Protection Service, Ministry of Agriculture, Sofia, Bulgaria; and phytosanitary export certificate are required

Evaluation: Evaluation data on 174 accessions using COMECON soybean descriptor list

Documentation: Partial and manual, computerization in progress using Apple II micro-computers, inventory list of 1265 accessions, passport information on 479 accessions.
Index Seminum of accessions available for exchange issued at regular intervals

CANADA

Plant Gene Resources of Canada (PGRC)
Ottawa Research Station
Research Branch, Agriculture Canada
Ottawa, Ontario K1A 0C6

Telephone: (613) 995-7900
Telex:
Cables:

Curator/person in charge: R. Loiselle

Details of collection: G. max 626 accessions from Canada, China, France, German Democratic Republic, Federal Republic of Germany, Hungary, Korean peninsula, Netherlands, Poland, Romania, Switzerland, USSR, United Kingdom, USA, and Yugoslavia

Maintenance of collection: Seed stored at 4°C and 20% RH, with a seed moisture content of 4 to 8%; long-term storage in sealed aluminium foil packets at -20°C

Duplication of collection:	Not duplicated
Availability:	Seed freely available
Quarantine:	Import permit and phytosanitary export certificate are required. Seed must be be spirally cleaned, and declared free of soil peds and Heterodera glycines (soyabean cyst nematode)
Evaluation:	No information
Documentation:	No information

CHINA

Institute of Crop Breeding and Cultivation
Chinese Academy of Agricultural Sciences (CAAS)
Beijing

Telephone: 891731
Telex: 4878
Cables:

Curator/person in charge:	Pu, Mu Hua
Details of collection:	G. max 1033 accessions from northern China G. max 167 accessions from Japan and USA
Maintenance of collection:	Seed stored at ambient temperature for 3 years IBPGR Designated Base Collection. CAAS has accepted responsibility for maintaining a global collection of Glycine max and G. soja for long-term conservation as a base collection within the IBPGR network of designated genebanks
Duplication of collection:	May be duplicated in provincial collections
Availability:	All requests for seed should be addressed to: Ministry of Agriculture, Animal Husbandry and Fisheries (MAAHF) Beijing
Quarantine:	Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)
Evaluation:	Characterization for Maturity Groups III to VIII
Documentation:	No information

CHINA

Institute of Crop Germplasm Resources
Chinese Academy of Agricultural Sciences (CAAS)
Beijing

Telephone:
Telex:
Cable:

Curator/person in charge:	Chang, Ruzhen
Details of collection:	G. soja 400 accessions collected in China
Maintenance of collection:	Seed stored at ambient temperature for 3 years
Duplication of collection:	May be partly duplicated in other provinces in China
Availability:	All requests for seed should be addressed to: Ministry of Agriculture, Animal Husbandry and Fisheries (MAAHF) Beijing

CHINA (continued)

Quarantine: Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)

Evaluation: Preliminary characterization

Documentation: No information

CHINA[9,11]

Institute of Crop Breeding and Cultivation
Anhui Academy of Agricultural Sciences
Hefei, Anhui Province

Telephone:
Telex:
Cables:

Curator/person in charge: Dai, Ou He

Details of collection: G. max about 500 accessions mainly from Anhui Province

Maintenance of collection: Seed stored at ambient temperature

Duplication of collection: May be partly duplicated at institutes in Jiangsu Province and Wuhan

Availability: All requests for seed should be addressed to:
Ministry of Agriculture, Animal Husbandry and Fisheries
(MAAHF)
Beijing

Quarantine: Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)

Evaluation: General characterization

Documentation: No information

CHINA[3,9]

Soybean Research Institute
Heilongjiang Academy of Agricultural Sciences
Harbin, Heilongjiang Province

Telephone:
Telex:
Cables:

Curator/person in charge: Wu, He Li

Details of collection:
G. max 649 improved cultivars
G. max 516 local cultivars
G. max 390 cultivars from other countries
G. soja 400 accessions from China

Maintenance of collection: Seed stored at ambient temperature and replenished every 2 years; a large cold storage facility (-5°C) is nearly completed

Duplication of collection: Partly duplicated at other provinces in China

Availability: All requests for seed should be addressed to:
Ministry of Agriculture, Animal Husbandry and Fisheries
(MAAHF)
Beijing

Quarantine: Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)

Evaluation: General characterization. Active collection used to select for disease and pest resistance

Documentation: No information

CHINA[9]

Institute of Crop Breeding and Cultivation
Hebei Academy of Agricultural Sciences
Shijiazhuang, Hebei Province

Telephone:
Telex:
Cables:

Curator/person in charge: Officer-in-Charge

Details of collection: G. max 276 accessions from Hebei Province

Maintenance of collection: Seed stored at ambient temperature

Duplication of collection: No information

Availability: All requests for seed should be addressed to:
Ministry of Agriculture, Animal Husbandry and Fisheries (MAAHF)
Beijing

Quarantine: Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)

Evaluation: General characterization

Documentation: No information

CHINA[2,9]

Oil Bearing Crops Research Institute
Chinese Academy of Agricultural Sciences (CAAS)
Wuhan, Hubei Province

Telephone:
Telex:
Cables:

Curator/person in charge: Sun, Da Rong/Wang, Guo Xun

Details of collection: G. max 766 accessions mainly from Hubei Province

Maintenance of collection: Seed stored in jars at ambient temperature

Duplication of collection: May be partly duplicated at other provinces in southern China

Availability: All requests for seed should be addressed to:
Ministry of Agriculture, Animal Husbandry and Fisheries (MAAHF)
Beijing

Quarantine: Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)

Evaluation: Partial evaluation data

Documentation: No information

CHINA

Crops Research Institute
Hunan Academy of Agricultural Sciences
Changsha, Hunan Province

Telephone:
Telex:
Cables:

Curator/person in charge: Zhou, Jiao Lian/Zhen, Gin Lian

Details of collection:
G. max 296 accessions from Hunan Province
G. max 168 accessions from other China provinces
G. max 43 accessions from other countries
G. soja 45 accessions from Hunan Province

Maintenance of collection: Seed stored at ambient temperature for 1 year

Duplication of collection: May be partly duplicated at other provinces in China

Availability: All requests for seed should be addressed to:
Ministry of Agriculture, Animal Husbandry and Fisheries
(MAAHF)
Beijing

Quarantine: Phytosanitary certificate is required for seed importation.
Seed must originate in an area free from *Trogoderma granarium*
(khapra beetle)

Evaluation: General characterization

Documentation: No information

CHINA

Soybean Research Laboratory
Nanjing Agricultural College
Nanjing, Jiangsu Province

Telephone:
Telex:
Cables:

Curator/person in charge: Gai, Junyi

Details of collection: *G. max* 2168 accessions mainly from southern China (including the Yangtze River Valley), remainder from other areas in China and other countries

Maintenance of collection: Seed in cold storage for 5 years

Duplication of collection: May be partly duplicated at other provinces in southern China

Availability: All requests for seed should be addressed to:
Ministry of Agriculture, Animal Husbandry and Fisheries
(MAAHF)
Beijing

Quarantine: Phytosanitary certificate is required for seed importation.
Seed must originate in an area free from *Trogoderma granarium*
(khapra beetle)

Evaluation: Characterization in progress; collection consists primarily of Maturity Groups IV to IX

Documentation: No information

CHINA[9,11]

Economic Crops Research Institute
Jiangsu Academy of Agricultural Sciences
Nanjing, Jiangsu Province

Telephone:
Telex:
Cables:

Curator/person in charge: Ling, Yi Lu

Details of collection: G. max 473 accessions from Jiangsu Academy of Agricultural Sciences
G. max 726 accessions from other institutes in Jiangsu Province

Maintenance of collection: Seed stored in bags at ambient temperature

Duplication of collection: May be partly duplicated at other provinces in southern China

Availability: All requests for seed should be addressed to:
Ministry of Agriculture, Animal Husbandry and Fisheries
(MAAHF)
Beijing

Quarantine: Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)

Evaluation: General characterization

Documentation: No information

CHINA[11]

Soybean Research Institute
Jilin Academy of Agricultural Sciences
Gongzhuling, Jilin Province

Telephone: 5179-400
Telex:
Cables:

Curator/person in charge: Zhang, Zi Jin/Xu, .

Details of collection: G. max 500 accessions from Jilin province
G. max 3000 accessions from other provinces in China
G. max 700 accessions from other countries
G. soja 600 accessions

Maintenance of collection: Seed in cold storage

Duplication of collection: 3000 accessions duplicated at other provinces in China

Availability: All requests for seed should be addressed to:
Ministry of Agriculture, Animal Husbandry and Fisheries
(MAAHF)
Beijing

Quarantine: Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)

Evaluation: Complete characterization of 2000 accessions for 50 descriptors

Documentation: Complete and computerized for 2000 accessions. Remainder of collection in process of computerization

CHINA[8,9]

Tieling District Agricultural Research Institute
Tieling, Liaoning Province

Telephone:
Telex:
Cables:

Curator/person in charge:	Shan, Wei Kui/Zhang, Ren Shuang
Details of collection:	G. max 575 landraces from Liaoning Province G. max 205 accessions from other provinces G. max 178 accessions from Europe, Japan, Korean peninsula, and USA 29 semi-wild accessions
Maintenance of collection:	Seed stored at ambient temperature
Duplication of collection:	Partly duplicated at other provinces in China
Availability:	All requests for seed should be addressed to: Ministry of Agriculture, Animal Husbandry and Fisheries (MAAHF) Beijing
Quarantine:	Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)
Evaluation:	General characterization
Documentation:	No information

CHINA[9]

Institute of Economic Crop Sciences
Shaanxi Academy of Agricultural Sciences
Wugong, Shaanxi Province

Telephone:
Telex:
Cables:

Curator/person in charge:	Dai, Yong Ming
Details of collection:	G. max 965 accessions mainly from Shaanxi Province
Maintenance of collection:	Seed stored at ambient temperature for 3 years
Duplication of collection:	May be duplicated in nearby provinces in China
Availability:	All requests for seed should be addressed to: Ministry of Agriculture, Animal Husbandry and Fisheries (MAAHF) Beijing
Quarantine:	Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)
Evaluation:	General characterization
Documentation:	No information

CHINA[2,9]

Institute of Crop Breeding and Cultivation
Shandong Academy of Agricultural Sciences
Jinan, Shandong Province

Telephone:
Telex:
Cables:

Curator/person in charge: Zhao, Jing Rong

Details of collection: G. max 535 accessions from Shandong Province

Maintenance of collection: Seed stored at ambient temperature

Duplication of collection: No information

Availability: All requests for seed should be addressed to:
Ministry of Agriculture, Animal Husbandry and Fisheries (MAAHF)
Beijing

Quarantine: Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)

Evaluation: General characterization

Documentation: No information

CHINA[11]

Shanghai Academy of Agricultural Sciences
Shanghai

Telephone:
Telex:
Cables:

Curator/person in charge: Officer-in-Charge

Details of collection: G. max 100 accessions from Shanghai locality

Maintenance of collection: Seed stored in boxes for 10 years

Duplication of collection: No information

Availability: All requests for seed should be made to:
Ministry of Agriculture, Animal Husbandry and Fisheries (MAAHF)
Beijing

Quarantine: Phytosanitary certificate is required for seed importation. Seed must originate in an area free from Trogoderma granarium (khapra beetle)

Evaluation: No information

Documentation: No information

CHINA

Asian Vegetable Research and Development Center (AVRDC)
P.O. Box 42
Shanhua, Tainan 741
Taiwan

Telephone: 06 5837801
Telex: 73560 AVRDC
Cables: ASVEG SHANHUA

Curator/person in charge: S. Shanmugasundaram/C.S. Tay

CHINA (continued)

Details of collection:
G. max 11926 accessions
G. soja 344 accessions
Perennial Glycine species 53 accessions

Accessions are of worldwide origin

Maintenance of collection: Seed stored in aluminium foil packets and in plastic containers at 5°C with 45% RH

Duplication of collection: Partly duplicated at the USDA collections, USA; NIAR, Tsukuba, Japan; Thailand; and others

Availability: Seed freely available

Quarantine: Phytosanitary certificate is required for seed importation

Evaluation: Partial evaluation (IBPGR soyabean descriptor list)

Documentation: Complete and computerized inventory list, partial passport information

CHINA

Taiwan Agricultural Research Institute (TARI)
189 Chung-Cheng Road
Wanfeng, Wufeng
Taichung 431
Taiwan

Telephone:
Telex:
Cables:

Curator/person in charge: Chan, Kuo-Lein

Details of collection:
G. max 3300 accessions from China (Taiwan)
G. max 250 accessions from other countries
G. soja 46 accessions

Maintenance of collection: Seed stored in 11x4 cm plastic containers (50 to 150 g) at 10°C with 45% RH for 2 years

Duplication of collection: Duplicated at AVRDC

Availability: No information

Quarantine: Phytosanitary certificate is required for seed importation

Evaluation: Evaluation data

Documentation: Printed evaluation data

CHINA

Department of Agronomy
National Chung-Hsing University
Taichung
Taiwan

Telephone:
Telex:
Cables:

Curator/person in charge: Lu, Ying-Chuan

Details of collection:
G. max 166 accessions from China (Taiwan)
G. max 55 accessions from Japan
G. max 7 accessions from Philippines
G. max 5 accessions from Thailand
G. max 72 accessions from USA
G. soja 20 accessions

Maintenance of collection:	Seed stored in sealed bags in desiccators at 5°C for 2 years
Duplication of collection:	Not duplicated
Availability:	Seed freely available
Quarantine:	Phytosanitary certificate is required for seed importation
Evaluation:	No information
Documentation:	No information

COLOMBIA

Instituto Colombiano Agropecuaro (ICA)
Apartado Aereo 233
Palmira, Valle

Telephone: 28170
Telex:
Cables: ICA

Curator/person in charge:	O. Agudelo/H. Carmen
Details of collection:	G. max 550 cultivars from China (Taiwan), Colombia, France, India, INTSOY, Sri Lanka, and Zimbabwe G. soja 3 accessions
Maintenance of collection:	Seed in cold storage for 6 to 12 months
Duplication of collection:	May be partly duplicated at INTSOY
Availability:	Seed not available
Quarantine:	Both import permit, issued prior to shipment, from the Ministry of Agriculture, Sección de Sanidad Vegetal, Bogota; and phytosanitary certificate are required. Seed must be declared free from Trogoderma granarium (khapra beetle)
Evaluation:	Complete characterization for 26 descriptors (flower colour, leaf shape, leaf colour, lodging, shattering, pubescence type, pubescence density, pubescence colour, seed coat colour, hilum colour, seed quality, flowering date, maturity date, plant height, leaf size, height of first pod, pod size, pod number, weight of 100 seeds, yield, and total number of seeds; screened for disease resistance to downy mildew, bacterial pustule, bacterial blight, virus, and Cercospora) for 422 accessions
Documentation:	Manual and complete inventory list (including country of origin), evaluation data in process of publication

CZECHOSLOVAKIA[2]

Plant Breeding Research Institute of Technical Crops and Legumes
787 12 Sumperk
Tumenice

Telephone:
Telex:
Cables:

Curator/person in charge:	J. Lahola
Details of collection:	G. max 500 landraces of worldwide origin
Maintenance of collection:	Active collection
Duplication of collection:	Duplicated for long-term storage at VIR, Leningrad, USSR
Availability:	No information

CZECHOSLOVAKIA (continued)

Quarantine:	Unrestricted importation of soil-free seed
Evaluation:	Complete
Documentation:	Complete

CZECHOSLOVAKIA

Research Institute of Plant Production
Bratislavska cesta 122
921 68 Piestany

Telephone: Piestany 22311
Telex:
Cables:

Curator/person in charge:	L. Pastucha/T. Sinsky
Details of collection:	G. max 273 accessions of worldwide origin
Maintenance of collection:	Seed stored at ambient temperature for 1 year
Duplication of collection:	Very early maturing varieties are duplicated at the Plant Breeding Research Institute of Technical Crops and Legumes, Sumperk
Availability:	Seed freely available
Quarantine:	Unrestricted importation of soil-free seed
Evaluation:	Partial characterization (COMECON soyabean descriptor list)
Documentation:	Complete and manual inventory list, partial passport information. Index Seminum issued at regular intervals

FRANCE

Station d'Amélioration des Plantes
Institut National de la Recherche Agronomique (INRA)
Domaine de Melgueil
Chemin de Mézouls
34130 - Mauguio

Telephone: (67) 63 12 75
Telex: INRAMON 490 818 F
Cables:

Curator/person in charge:	A. Vidal
Details of collection:	G. max 800 accessions from China, Eastern Europe, Japan, and USA G. soja 6 accessions
Maintenance of collection:	Seed stored at 5°C with 40% RH for 5 years
Duplication of collection:	Not duplicated
Availability:	Seed freely available in limited quantity (20 seeds per request)
Quarantine:	No information
Evaluation:	Complete characterization for 5 descriptors (maturity, flower colour, pubescence colour, seed coat colour, and hilum colour) for 329 accessions; collection consists of Maturity Groups 00 to III
Documentation:	Complete and manual inventory list of 329 accessions available for exchange

FRANCE

G.I.E. Amélioration Fourragère
1 Rue Hegesippe Moreau
77160 Provins

Telephone: (6) 400 11 85
Telex:
Cables:

Curator/person in charge: P. Gayraud

Details of collection: C. max 1582 accessions

Maintenance of collection: Seed stored at 5°C for 3 to 4 years

Duplication of collection: Duplicated at other collections in France

Availability: Seed freely available

Quarantine: No information

Evaluation: No information

Documentation: Manual

FRANCE[1,7]

Ecole Nationale Supérieure Agronomique de Toulouse (ENSAT)
145 Avenue de Muret
31076 Toulouse

Telephone:
Telex:
Cables:

Curator/person in charge: R.M. Ecochard

Details of collection: C. max about 500 accessions

Maintenance of collection: No information

Duplication of collection: No information

Availability: No information

Quarantine: No information

Evaluation: Collection contains significant diversity

Documentation: No information

FRANCE[1,4]

Etablissements Tourneur Frères
64 Rue de General Leclerc
B.P. 1
77120 Coulommiers

Telephone: (6) 403 00 33
Telex: TOURCOU 690604 F
Cables:

Curator/person in charge: F. Charpentier

Details of collection: C. max about 100 accessions

Maintenance of collection: No information

Duplication of collection: No information

Availability: Seed freely available for research on an exchange basis

FRANCE (continued)

Quarantine: No information

Evaluation: No information

Documentation: No information

GERMAN DEMOCRATIC REPUBLIC

Zentralinstitut für Genetik und Kulturpflanzenforschung (ZIGuK)
Correnssts sse 3
DDR - 4325 Gatersleben

Telephone: Gatersleben 50
Telex: KUPFGA DD 48558
Cables:

Curator/person in charge: C. Lehmann/M. Zacharias

Details of collection: G. max 1173 accessions (including duplicates) from Canada, northern China, Europe, Japan, USSR, and USA
G. max 1588 mutant lines
G. soja 2 accessions

Maintenance of collection: Long-term seed storage in air-tight containers at 0°C

Duplication of collection: Not duplicated

Availability: Seed freely available

Quarantine: Phytosanitary export certificate issued not more than 20 days prior to shipment is required. Seed must be declared free of Bruchidae

Evaluation: Complete characterization for 95% of collection. Collection consists primarily of Maturity Groups 000 to I

Documentation: Manual inventory list and passport information.
Index Seminum of accessions available for exchange issued at regular intervals

GERMANY, FEDERAL REPUBLIC OF

Institut für Pflanzenbau und Pflanzenzüchtung
Bundesforschungsanstalt für Landwirtschaft
Braunschweig-Völkenrode (FAL)
Bundesallee 50
D - 3300 Braunschweig

Telephone: (0531) 596 307
Telex:
Cables:

Curator/person in charge: G. Schroder

Details of collection: G. max 80 accessions from the Federal Republic of Germany

Maintenance of collection: Seed stored in metal cans at -10°C with 6 to 8% RH

Duplication of collection: Not duplicated

Availability: Seed not available

Quarantine: Phytosanitary certificate issued not more than 14 days prior to shipment is required

Evaluation: Complete characterization for 8 descriptors (BGRC Number, BGRC accession year, donor, genus, species, designation, donor country, and selection level)

Documentation:	Complete and computerized inventory list and passport information. Index Seminum of accessions available for exchange issued at regular intervals

GREECE

Cotton and Industrial Plants Institute
Sindos - Thessaloniki

Telephone: (031) 51 22 00
Telex:
Cables:

Curator/person in charge:	G. Kontas
Details of collection:	G. max 74 accessions from Japan, Republic of Korea, USSR, and USA
Maintenance of collection:	Seed stored at ambient temperature for 3 years
Duplication of collection:	Not duplicated
Availability:	Seed freely available in limited quantity (up to 200 g per request)
Quarantine:	Import permit and phytosanitary certificate issued not more than 14 days prior to shipment are required
Evaluation:	Collection consists of Maturity Groups 00 to VII
Documentation:	Manual

HUNGARY[4,5]

National Institute for Agricultural Variety Testing (NIAVT)
Research Centre for Agrobotany
H - 2766 Tapioszele

Telephone:
Telex: 226981 AGBOT H
Cables:

Curator/person in charge:	A. Szucs
Details of collection:	G. max 484 accessions
Maintenance of collection:	Seed stored in air-tight glass jars at 0° to 4°C with a moisture content of 5 to 8%, active collection; long-term storage at -20°C
Duplication of collection:	No information
Availability:	Seed freely available on an exchange basis
Quarantine:	Phytosanitary certificate is required. Parent plants and seeds must be free from Pseudomonas medicaginis (halo blight), Xanthomonas phaseoli (common bean blight), and Corynebacterium flaccumfaciens (bacterial wilt)
Evaluation:	Characterization in progress (COMECON and IBPGR soyabean descriptor lists)
Documentation:	Computerization in progress using a Honeywell-type computer

HUNGARY

Research Institute for Forage Crops
7095 Iregszemcse

Telephone: Iregszemcse 5
Telex: 14297 TAKI H
Cables:

Curator/person in charge:	L. Meszaros
Details of collection:	G. max 90 cultivars from Canada, Federal Republic of Germany, Hungary, Romania, USA, and Yugoslavia
Maintenance of collection:	Seed stored at ambient temperature for 1 year
Duplication of collection:	No information
Availability:	Seed freely available
Quarantine:	Phytosanitary certificate is required. Parent plants and seeds must be free from Pseudomonas medicaginis (halo blight), Xanthomonas phaseoli (common bean blight), and Corynebacterium flaccumfaciens (bacterial wilt)
Evaluation:	General characterization
Documentation:	Manual inventory list and passport information

INDIA

All India Coordinated Research Project on Soybean
G.B. Pant University of Agriculture and Technology
Pantnagar (Nainital), U.P. 263145

Telephone: 291 292 Rudarpur
Telex:
Cables: PANTVARSITY

Curator/person in charge:	P.S. Bhatnagar
Details of collection:	G. max 4015 accessions from China (including Taiwan), India, Indonesia, Japan, Korean peninsula, Nepal, Nigeria, Philippines, South America, Thailand, USSR, and USA G. soja 7 accessions
Maintenance of collection:	Seed stored at 2° to 4°C with 65% RH for 1 year
Duplication of collection:	Duplicated at other soyabean breeding institutes in India
Availability:	Seed freely available for research purposes
Quarantine:	Unrestricted importation of seed for research purposes
Evaluation:	No information
Documentation:	Manual list of cultivar pedigrees

INDIA

National Bureau of Plant Genetic Resources (NBPGR)
Regional Station, P.K.V. Campus
Akola - 444104 (Maharashtra)

Telephone: 4967
Telex:
Cables:

Curator/person in charge:	H.P. Bhatia
Details of collection:	G. max 1939 accessions from Australia, Argentina, Brazil, Canada, China (including Taiwan), Fiji, Germany, Ghana, Hungary, India, Indonesia, Israel, Italy, Japan, Korean peninsula, Mexico,

	Morocco, Nepal, Nigeria, Papua New Guinea, Philippines, Romania, Sri Lanka, South Africa, South America, Thailand, Trinidad, USSR, United Kingdom, USA, Yugoslavia, and Zimbabwe
Maintenance of collection:	Seed stored at ambient temperature for 1 year
Duplication of collection:	No information
Availability:	Seed freely available on an exchange basis
Quarantine:	Unrestricted importation of seed for research purposes
Evaluation:	No information
Documentation:	Inventory list (including passport and descriptor information) in process of publication

INDIA

Maharashtra Association for the Cultivation of Science
Law College Road
Pune (Maharashtra)

Telephone: 56357/53683
Telex:
Cables:

Curator/person in charge:	V.P. Patil/V.M. Raut
Details of collection:	G. max 1081 accessions from Australia, China (including Taiwan), Germany, Ghana, Hungary, Italy, Japan, Nigeria, USSR, and USA G. soja 6 accessions
Maintenance of collection:	Seed stored at ambient temperature
Duplication of collection:	Not duplicated
Availability:	Seed freely available in limited quantity (50 g per request)
Quarantine:	Unrestricted importation of seed for research purposes
Evaluation:	Evaluated for maturity group classification
Documentation:	No information

INDIA

Marathwada Agriculture University
Parbhani (Maharashtra)

Telephone:
Telex:
Cables:

Curator/person in charge:	M.N. Bhatambrekar
Details of collection:	G. max 125 accessions from India
Maintenance of collection:	Seed stored at ambient temperature for 1 year
Duplication of collection:	Duplicated at other institutes in India
Availability:	Seed freely available of major cultivars
Quarantine:	Unrestricted importation of seed for research purposes
Evaluation:	No information
Documentation:	No information

INDIA

Haryana Agriculture University
Hissar (Hayana)

Telephone:
Telex:
Cables:

Curator/person in charge:	B.D. Chaudhary
Details of collection:	G. max 350 accessions from China (Taiwan) and USA
Maintenance of collection:	No information
Duplication of collection:	Partly duplicated at Pantnagar
Availability:	Seed not available
Quarantine:	Unrestricted importation of seed for research purposes
Evaluation:	No information
Documentation:	Manual inventory list

INDIA

Jawaharlal Nehru Krishi Vishwa Vidyalaya (JNKVV)
Jabalpur (Madhya Pradesh)

Telephone:
Telex:
Cables:

Curator/person in charge:	S.K. Mehta
Details of collection:	G. max 385 accessions from Pantnagar, India
Maintenance of collection:	Seed stored at ambient temperature
Duplication of collection:	Duplicated at Pantnagar
Availability:	Seed freely available
Quarantine:	Unrestricted importation of seed for research purposes
Evaluation:	Complete characterization for 26 descriptors
Documentation:	No information

INDIA

S.K. University of Agriculture and Technology
Shalimar (Kashmir)

Telephone:
Telex:
Cables:

Curator/person in charge:	G.H. Baba
Details of collection:	G. max 105 accessions from China (Taiwan) and India G. soja 1 accession
Maintenance of collection:	Seed stored at ambient temperature for 1 year
Duplication of collection:	No information
Availability:	Seed freely available in limited quantity (30 to 50 g per request)
Quarantine:	Unrestricted importation of seed for research purposes

Evaluation:	Collection consists of cultivars maturing in 4 months
Documentation:	Manual inventory list

INDIA

College of Agriculture
(U.A.S.), Dharwar
Karnataka

Telephone:
Telex:
Cables:

Curator/person in charge:	H.D. Upadhyay
Details of collection:	G. max 30 accessions from Pune and Palampur, India
Maintenance of collection:	Seed stored at ambient temperature
Duplication of collection:	Duplicated at Pune and Palampur
Availability:	Seed freely available
Quarantine:	Unrestricted importation of seed for research purposes
Evaluation:	In process of evaluation
Documentation:	Manual list of cultivar pedigrees

INDONESIA

Sukamandi Research Institute for Food Crops (SURIF)*
Balittan Sukamandi
Sukamandi, Kab. Subang
Jawa Barat

Telephone: 157 Cikampek
Telex:
Cables:

Curator/person in charge:	O. O. Hidayat/T. Puspitarati
Details of collection:	G. max 2194 accessions from Australia, China (including Taiwan), Japan, and USA G. soja 4 accessions
Maintenance of collection:	Seed stored at 0° to 7°C for 5 years
Duplication of collection:	Majority duplicated at the National Biological Institute, Bogor
Availability:	Seed freely available in limited quantity
Quarantine:	Seed importation unrestricted, phytosanitary certificate is preferred
Evaluation:	No information
Documentation:	Inventory information published in Catalogue of Germplasm

* Also known by its Indonesian acronym 'BALITTAN, Sukamandi'

INDONESIA

Bogor Research Institute for Food Crops (BORIF)*
Jalan Cimanggu Kecil No. 2
Bogor

Telephone: 28820 - 27975
Telex:
Cables: BALITTAN BOGOR

Curator/person in charge:	Sumarno/Sutjipto
Details of collection:	G. max 500 accessions from Australia, AVRDC, Indonesia, Japan, and USA G. soja 4 accessions
Maintenance of collection:	Seed stored in envelopes in plastic containers with dessicant at 4°C and low RH
Duplication of collection:	Duplicated at SURIF and MARIF; and AVRDC
Availability:	Seed freely available in limited quantity (50 seeds per request)
Quarantine:	Seed importation unrestricted, phytosanitary certificate is preferred
Evaluation:	General characterization. Indonesian cultivars selected for very early maturity (75 to 78 days) and rust resistance
Documentation:	Inventory list

* Also known by its Indonesian acronym 'BALITTAN, Bogor'

INDONESIA

Genetic Resources Unit
Malang Research Institute for Food Crops (MARIF)
P.O. Box 66
Malang

Telephone: 0341-25561
Telex:
Cables:

Curator/person in charge:	J.S. Siemonsma
Details of collection:	G. max 318 accessions from AVRDC, Indonesia, Japan, Philippines, USA, and Vietnam
Maintenance of collection:	No information
Duplication of collection:	Partly duplicated at BORIF and SURIF; and AVRDC
Availability:	No information
Quarantine:	Seed importation unrestricted, phytosanitary certificate is preferred
Evaluation:	Complete characterization for 19 descriptors (hypocotyl colour; seed colour; rhizobium score; flower data; leaf shape, leaf size; height; number of inflorescences on the main stem, branch, and plant; number of pods per plant and per inflorescence; pod weight; shattering; yield; seed weight; number of seeds per plant and per pod; maturity). Partial screening for resistance to beanflies (Ophiomyia phaseoli and Melanagromyza sojae) and podborers (Etiella species), and tolerance to waterlogging
Documentation:	Complete and computerized inventory list and passport information using an HP86 microcomputer and CP/M software package dBASE II.

Inventory list and evaluation data published in: Malang Research Institute for Food Crops, 1985. Germplasm Catalogue Soybean (Glycine max (L.) Merrill). MARIF, Genetic Resources Unit, Malang

ITALY

Istituto Di Agronomia
Università Degli Studi di Padova
Via Gradenigo, 6
35131 - Padova

Telephone: (049)27 184/(049)45 311
Telex:
Cables:

Curator/person in charge: P. Parrini

Details of collection: G. max 288 accessions from Afghanistan (1), Canada (18), China (9), France (20), Federal Republic of Germany (11), Hungary (33), Japan (7), Poland (8), Romania (28), Spain (3), USSR (111), United Kingdom (2), USA (107), Yugoslavia (7), and unknown (23)

Maintenance of collection: Seed stored at 15°C with 40% RH, active collection

Duplication of collection: May be partly duplicated at ENSAT and INRA, France

Availability: Seed available in limited quantity (10 to 20 seeds per request)

Quarantine: Phytosanitary certificate issued not more than 14 days prior to shipment by the official plant protection service of the country of origin is required

Evaluation: No information

Documentation: Manual

JAPAN

National Institute of Agrobiological Resources (NIAR)
Seed Storage Laboratory, Division of Genetics
Kannondai 3-1-1, Yatabe-machi
Tsukuba-gun, Ibaraki-ken
305

Telephone: 02975-6-8361
Telex
Cables: NIARTSUKUBA MITSUKAIDO

Curator/person in charge: S. Watanabe

Details of collection: G. max 3741 accessions from Africa (17), Asia (425), Europe (336), Japan (2580), North America (298), South America (57), and unknown origin (28)

Maintenance of collection: Seed stored in hermetically sealed containers at -1°C with 30% RH, active collection

IBPGR Designated Base Collection. NIAR has accepted responsibility for maintaining a global collection of Glycine max for long-term conservation at -10°C with 30% RH as a base collection within the IBPGR network of designated genebanks

Duplication of collection: Not duplicated

Availability: Seed freely available in limited quantity (50 to 100 seeds per request)

Quarantine. Phytosanitary certificate required for seed importation

Evaluation: Partial characterization

JAPAN (continued)

Documentation: Complete and computerized inventory list (including cultivar name and accession code number)

JAPAN

Kariwano Laboratory
Tohoku National Agricultural Experiment Station
Kariwano, Nishi-Senboku, Akita-ken
019-21

Telephone:
Telex:
Cables:

Curator/person in charge: K. Igita

Details of collection: G. max 1400 accessions from China, Japan, Korean peninsula, and other countries
G. soja 3 accessions

Maintenance of collection: Seed stored at 3° to 5°C for 5 to 10 years

Duplication of collection: Partly duplicated at NIAR, Tsukuba

Availability: Seed freely available for research purposes

Quarantine: Phytosanitary certificate required for seed importation

Evaluation: Partial characterization

Documentation: No inventory list or passport information presently available. Annual Experiment Station reports published in Japanese

JAPAN

Soybean Breeding Laboratory
Tokachi Agricultural Experiment Station
Shinsei, Memuro-cho
Kasai-gun, Hokkaido

Telephone:
Telex:
Cables:

Curator/person in charge: K. Sasaki

Details of collection: G. max 550 accessions
G. soja 15 accessions

Majority of collection is cultivars and landraces from Hokkaido, Japan; remainder from China (13%), and Europe and USA (25%)

Maintenance of collection: Seed stored at ambient temperature for 3 years

Duplication of collection: Duplicated at NIAR, Tsukuba and the Hokkaido Central Agricultural Experiment Station

Availability: Seed freely available in limited quantity (50 to 100 seeds per request)

Quarantine: Phytosanitary certificate required for seed importation

Evaluation: Collection consists of early maturing and cold tolerant accessions for breeding purposes

Documentation: Evaluation data printed in Japanese

JAPAN[3]

Breeding Laboratory
Faculty of Agriculture
Iwate University
Ueda, Morioka-shi
Iwate-ken

Telephone:
Telex:
Cables:

Curator/person in charge:	N. Kaizuma
Details of collection:	G. soja 151 accessions from China (11), Japan (70), Korean peninsula (53), and USSR (17) G. clandestina 5 accessions G. falcata 1 accession G. tabacina 11 accessions G. tomentella 6 accessions
Maintenance of collection:	No information
Duplication of collection:	Partly duplicated at the USDA collections, USA
Availability:	No information
Quarantine:	Phytosanitary certificate required for seed importation
Evaluation:	Collection characterized for maturity, and protein and amino acid content
Documentation:	General collection information published in: Kaizuma, N., 1975. Japanese germplasm collection. In: Hill, L.D. (Ed.). World Soybean Research. p. 298-305. Interstate Printers and Publishers, Inc., Danville, Illinois, USA

JAPAN

Soyabean Breeding Laboratory
Kyushu National Agricultural Experiment Station
Suya 2421, Nishigoshi-cho
Kikuchi-gun, Kumamoto-ken 861-11

Telephone:
Telex:
Cables:

Curator/person in charge:	T. Ohba
Details of collection:	G. max 433 accessions from southern Japan
Maintenance of collection:	Seed stored at 5°C for 3 years
Duplication of collection:	Duplicated at NIAR, Tsukuba
Availability:	All requests should be addressed to: Ministry of Agriculture, Forestry and Fisheries
Quarantine:	Phytosanitary certificate required for seed importation
Evaluation:	Collection consists of late maturing cultivars
Documentation:	Inventory list not available

KOREA, REPUBLIC OF

Upland Crops Research Division
Crop Experiment Station
Office of Rural Development (ORD)
Suweon 170

Telephone: 62166
Telex:
Cables:

Curator/person in charge: E.H. Hong

Details of collection: G. max 3678 accessions from Argentina, Brazil, Canada, China (Taiwan), Indonesia, Italy, Korean peninsula, Nigeria, Philippines, and USA
G. soja 342 accessions

6% of collection from the Korean peninsula

Maintenance of collection: Seed stored in cans at -1°C with 30% RH, active collection; long-term seed conservation at -10°C with 30% RH

Duplication of collection: Partly duplicated at the Yeongnam Crop Experiment Station, ORD, Milyang 605; and partly at the College of Agriculture, Seoul National University, Suweon 170

Availability: Seed freely available

Quarantine: Phytosanitary certificate is required

Evaluation: No information

Documentation: Complete and manual inventory list (including cultivar name and accessions number)

KOREA, REPUBLIC OF

Department of Agronomy
Kyung-Hee University
Seoul, 131

Telephone:
Telex:
Cables:

Curator/person in charge: S.H. Kwon

Details of collection: G. max 2800 accessions mainly from the central to southern Korean peninsula, and eastern Asia

Maintenance of collection: Seed stored for at least 1 year; long-term seed storage is being planned

Duplication of collection: Duplicated at the USDA collections, USA

Availability: Seed freely available at present

Quarantine: Phytosanitary certificate is required

Evaluation: Complete characterization for 21 descriptors (yield; seed weight; oil content; protein content; flowering date; maturity date; height; number of branches, nodes, and pods per plant; lodging; seed quality; seed coat colour; hilum colour; hypocotyl colour, flower colour; pubescence colour; pod colour; maturity group; and general disease and insect damage score.
Screened for soyabean mosaic virus, Cercospora kikuchi (purple seed stain), and podborer

Documentation: Evaluation data published in: Kwon S.H., et al., 1978. Evaluation of Korean Soybean Germplasm. 261p. Korean Atomic Energy Research Institute, Seoul

MALAYSIA

Department of Agronomy and Horticulture
University of Agriculture
Serdang, Selangor
and
Department of Genetics
University of Malaya
Kuala Lumpur

Telephone: 356601/356612
Telex:
Cables:

Curator/person in charge: C. Mak/T.C. Yap

Details of collection: G. max 60 accessions mainly from AVRDC

Maintenance of collection: Seed stored in cold rooms for 3 months, active collection

Duplication of collection: May be duplicated at AVRDC

Availability: Seed not available

Quarantine: Import permit and phytosanitary certificate are required

Evaluation: Partial characterization for 9 descriptors (height; number of branches, nodes, seeds, and pods per plant; seed weight; number of pods per node; flower date; and yield)

Documentation: Partial inventory list, pedigree information, and evaluation data published in theses and research papers.
General collection information published in: Yap, T.C., 1979. Soybean breeding in Malaysia. In: Corbin, F.T. (Ed.). World Soybean Research Conference - II: Abstracts. p. 93. Westview Press, Boulder, Colorado, USA

NEPAL

Grain Legume Improvement Programme (GLIP)
Agronomy Division
Khumaltar, Kathmandu

Telephone: 21169
Telex:
Cables:

Curator/person in charge: R. Chaudhary

Details of collection: G. max 41 landraces from Nepal

Maintenance of collection: Seed stored at ambient temperature for 1 year

Duplication of collection: Not duplicated

Availability: Seed freely available in limited quantity

Quarantine: Unrestricted importation of seed for research purposes

Evaluation: Complete characterization for 10 descriptors (yield, flowering date, maturity date, height, stem termination, flower colour, leaf shape, pod shape, pod colour, and seed coat colour) for 28 accessions

Documentation: Complete and manual inventory list (including evaluation information)

NIGERIA

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

Telephone: 413244/413315
Telex: 31417 TROPIB NG
Cables: TROPFOUND, IKEJA

Curator/person in charge:	N.Q. Ng
Details of collection:	G. max 1377 accessions from Africa, China (Taiwan), Indonesia, South America, and USA
Maintenance of collection:	Cold seed storage in aluminium foil packets with moisture content less than 8%
Duplication of collection:	Majority duplicated at the USDA collections, USA; and AVRDC
Availability:	Seed freely available
Quarantine:	Import permit and phytosanitary export certificate are required for seed importation. Importation of Glycine species vegetative material is prohibited
Evaluation:	Characterization in progress
Documentation:	Complete and manual inventory list (including accession numher, pedigree or cultivar name, donor identification, and country of origin)

PAPUA NEW GUINEA

Bubia Agriculture Research Centre
P.O. Box 73
Lae, Morobe Province

Telephone: 42 4933
Telex:
Cables: AGRIC LAE

Curator/person in charge:	R.N. Kambuou
Details of collection:	G. max 158 accessions from Australia (University of Queensland) and AVRDC
Maintenance of collection:	Seed stored at ambient temperature
Duplication of collection:	May be duplicated at the University of Queensland, Australia; and AVRDC
Availability:	Seed freely available
Quarantine:	Import permit and phytosanitary certificate are required for seed importation
Evaluation:	In process of characterization for 4 descriptors (seed weight, seed coat colour, maturity date, height); also variety and plant density test data
Documentation:	Complete and manual inventory list (including accession number, country of origin, and donor identification)

PARAGUAY

Instituto Agronomico Nacional (IAN)
Km 48 ½
Ruta 11
Caacupe

Telephone: 0511-255
Telex:
Cables:

Curator/person in charge:	O. Aguilera/R. Casaccia
Details of collection:	Majority of collection from Brazil (EMBRAPA) and INTSOY; the rest from Argentina, China (Taiwan), and Japan
Maintenance of collection:	Seed stored at ambient temperature
Duplication of collection:	May be duplicated in Brazil
Availability:	Seed freely available in limited quantity
Quarantine:	Import permit and phytosanitary certificate certified by a Paraguayan consul are required
Evaluation:	Characterization in progress
Documentation:	Inventory list and passport information in preparation

PHILIPPINES

National Plant Genetic Resources Laboratory (NPGRL)
Institute of Plant Breeding (IPB)
University of the Philippines at Los Baños (UPLB)
College, Laguna

Telephone: 25-12/33-04
Telex:
Cables:

Curator/person in charge:	N.C. Mamicpic
Details of collection:	G. max 1508 accessions mainly from AVRDC; recent additions from Asia, Brazil, Europe, Nigeria, Peru, and USA
Maintenance of collection:	Seed stored at 5°C with 60% RH for 12 years
Duplication of collection:	Partly duplicated at AVRDC
Availability:	Seed freely available in limited quantity (30 seeds per request)
Quarantine:	Import permit and phytosanitary certificate are required. Seeds must be apparently free of mosaic virus, witches' broom, downy mildew, purple seed stain anthracnose, wild fire, tobacco ring spot virus (bud blight diseases), and stem anthracnose
Evaluation:	Evaluation data available from the Legume and Technology Section, Institute of Plant Breeding, University of the Philippines
Documentation:	Inventory list in preparation. Other information printed in annual reports of the breeding, pathology and physiology programmes at the University of the Philippines

POLAND

Plant Breeding and Acclimatization Institute (IHAR)
Independent Soybean Laboratory
Radzikow near Warsaw
05-870 Blonie

Telephone: Warsaw 55 26 11
Telex: 812914 IHAR PL
Cables:

Curator/person in charge:	B. Federowska/J. Szyrmer
Details of collection:	G. max 954 accessions from Austria, Canada, China, Czechoslovakia, German Democratic Republic, Federal Republic of Germany, France, Hungary, Japan, Netherlands, Poland, Sweden, USSR, and USA G. soja 4 accessions
Maintenance of collection:	Seed stored in cotton sacks for 1 year, active collection; and in hermetically sealed jars at 10°C for 3 years
Duplication of collection:	Duplicated at the Research Station, Ozansk
Availability.	Seed freely available
Quarantine:	Phytosanitary certificate is required for seed importation
Evaluation:	Complete characterization for 5 descriptors (maturity; flower, pubescence, seed coat and hilum colour)
Documentation:	Complete and computerized inventory list, passport information and evaluation data. Seed evaluation data and country of origin published in: Szyrmer, J., 1979. Characteristics of Selected Soybean Varieties in the Collection. 37p. Soybean laboratory, Plant Breeding and Acclimatization Institute, Radzikow, Poland. Index Seminum of accessions available for exchange issued at regular intervals

PORTUGAL

Departamento de Fitotecnia
Estação Agrónomica Nacional
2780 Oeiras

Telephone: Lisbon 243 0442
Telex: 13517 MAP P
Cables:

Curator/person in charge:	A.M. Gaspar
Details of collection:	G. max 129 accessions through FAO and INTSOY
Maintenance of collection:	No information
Duplication of collection:	Possibly duplicated at donor institutions
Availability:	No information
Quarantine:	Unrestricted importation of seed
Evaluation:	No information
Documentation:	Complete and manual inventory list (including country of origin)

ROMANIA[1,4]

Research Institute for Cereals and Technical Plants (ICCPT)
Genetic Resources Department
Fundulea 8264
Jud. Calarasi

Telephone: (90)15 08 05/(90)13 70 62
Telex: 10489 ICCPT Fundulea
Cables:

Curator/person in charge:	S. Dencescu
Details of collection:	G. max 1800 accessions Perennial Glycine species 5 accessions
Maintenance of collection:	No information
Duplication of collection:	No information
Availability:	Seed freely available on an exchange basis for research purposes
Quarantine:	Both phytosanitary certificate and import permit (issued, prior to shipment, by the State Inspectorate for Plant Protection, Higher Council of Agriculture, Bd. Republicii nr. 24, Bucharest) are required
Evaluation:	Complete characterization
Documentation:	Complete and manual

SPAIN

Instituto Nacional Investigaciones Agrarias (INIA)
Apartado de Correos 13
San Jose de la Rinconada, Sevilla

Telephone: 70 00 50-51
Telex:
Cables:

Curator/person in charge:	M.J. Grande
Details of collection:	G. max 149 accessions from China (Taiwan), France, Poland, Romania, USA, and Yugoslavia
Maintenance of collection:	Seed stored at 4°C with 37% RH for 3 to 6 years
Duplication of collection:	Partly duplicated at the USDA collections, USA
Availability:	Seed freely available on an exchange basis
Quarantine:	Phytosanitary certificate from the country of origin is required for seed importation
Evaluation:	Complete characterization for 12 descriptors (flower colour, pubescence colour, pod colour, hilum colour, flowering date, pod formation date, seed filling date, maturity date, height, lodging, shattering, and seed weight) (IBPGR descriptor list)
Documentation:	Complete and manual inventory list (includes country of origin and evaluation data). Index Seminum of accessions available for exchange issued at regular intervals

SRI LANKA

Central Agricultural Research Institute (CARI)
Gannorwua, Peradeniya

Telephone: 08-88011
Telex:
Cables:

Curator/person in charge:	C.D. Dharmasena
Details of collection:	G. max 300 accessions from Asia, Australia, North America, and South America
Maintenance of collection:	Seed stored at ambient temperature
Duplication of collection:	Not duplicated
Availability:	Seed not available due to low supply
Quarantine:	Import permit issued prior to shipment is required; seed must originate from an area where soyabean cyst nematode is not known to occur. Importation of soyabeans for planting is prohibited
Evaluation:	No information
Documentation:	No information

THAILAND

Mae Jo Fieldcrop Research Centre
Sansal
Chiang Mai 50210

Telephone: 234-468
Telex:
Cables:

Curator/person in charge:	A. Ghotiyarnawong
Details of collection:	G. max 300 accessions mainly from China (including Taiwan), Japan, and USA, the rest from IITA, Indonesia, Philippines, and Vietnam
Maintenance of collection:	Seed in cold storage for 1 to 5 years
Duplication of collection:	Partly duplicated at other research centres in Thailand
Availability:	Seed freely available for research purposes
Quarantine:	Import permit issued prior to shipment and phytosanitary export certificate are required for seed importation
Evaluation:	Complete characterization for 9 descriptors (flowering date, maturity date, height, number of nodes on stem, seed size, flower colour, pubescence colour, seed coat colour, and hilum colour) for 1368 introduced Japanese accessions; duplicated and poor performing accessions were discarded after evaluation. Collection consists mainly of Maturity Groups VII to X
Documentation:	Evaluation of Japanese accessions published in English in: Konno, S., et al., 1974. Introduced Soybean Varieties in Thailand. Thailand Department of Agriculture. Recent evaluation data printed in Thai

THAILAND

Department of Agronomy
Kasetsart University
Bangkhen, Bangkok 10903

Telephone: (02) 579-3130
Telex:
Cables:

Curator/person in charge:	P. Srinives
Details of collection:	G. max 100 accessions from China (Taiwan), IITA, and USA
Maintenance of collection:	Seed in cold storage
Duplication of collection:	Partly duplicated at Chiang Mai, Thailand
Availability:	No information
Quarantine:	Import permit issued prior to shipment and phytosanitary export certificate are required for seed importation
Evaluation:	No information
Documentation:	No information

TURKEY

Aegean Regional Agricultural Research Institute (ARARI)
P.O. Box 9
Menemen - Izmir

Telephone: 149131
Telex:
Cables:

Curator/person in charge:	Y.Z. Kı:lu/K. Temiz
Details of collection:	G. max 194 cultivars from Japan and USA
Maintenance of collection:	Seed stored for 3 years, active collection
Duplication of collection:	Duplicated at the Mediterranean Agricultural Research Institute, Antalya
Availability:	Seed available in limited quantity
Quarantine:	Import permit issued prior to shipment and phytosanitary certificate are required, seed must be declared free from soyabean mosaic virus
Evaluation:	Complete characterization for 12 descriptors (yield, height to first pod, flowering date, maturity date, oil content, shattering, lodging, number of branches and pods per plant, seed weight, resistance to white flies, and plant height)
Documentation:	Complete and manual inventory list (including evaluation data)

UNION OF SOVIET SOCIALIST REPUBLICS (USSR)

N.I. Vavilov All-Union Institute of Plant Industry (VIR)
44 Herzen Street
19000, Leningrad

Telephone: 215-91-25
Telex: 122604 OBEC
Cables:

Curator/person in charge:	N.M. Chekalin
Details of collection:	G. max 4500 accessions from Southeast Asia, western Europe, USSR, and USA G. soja 200 accessions

UNION OF SOVIET SOCIALIST REPUBLICS (continued)

Maintenance of collection:	Seed stored at 18 to 20°C with 14% RH for 3 to 4 years
Duplication of collection:	Partly duplicated at the Kuban Experiment Station and the Far-Eastern Experiment Station
Availability:	Seed freely available
Quarantine:	Import quarantine permit and phytosanitary export certificate are required for seed importation. Seeds must originate in an area known to be free from Trogoderma granarium (khapra beetle)
Evaluation:	Collection consists of Maturity Groups 00 to VIII
Documentation:	Complete inventory list. Delectus Seminum issued at regular intervals

UNITED KINGDOM

Department of Agriculture and Horticulture
University of Reading
Shinfield Grange, Shinfield
Reading RG2 9AD, Berkshire

Telephone:
Telex:
Cables:

Curator/person in charge:	R.J. Summerfield
Details of collection:	G. max 42 accessions of worldwide origin
Maintenance of collection:	Good conditions for active and long-term seed storage
Duplication of collection:	Duplicated at AVRDC; IITA; and the USDA collections, USA
Availability:	Seed not available
Quarantine:	Phytosanitary certificate (conforming to the FAO model) issued not more than 14 days prior to shipment is required
Evaluation:	Active collection of diverse genotypes for research on photoperiod, temperature, and flowering response
Documentation:	No printed information available

UNITED STATES OF AMERICA (USA)

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

Telephone: (303) 484-0402
Telex:
Cables:

Curator/person in charge:	D. Clark
Details of collection:	G. max 10242 accessions of worldwide origin G. soja 638 accessions
Maintenance of collection:	Seed stored in heat-sealed foil-lined bags at -15 to -20°C for long-term storage. Periodic germination tests made and if germination is lower than 65%, new seed is obtained from USDA collections in Urbana, Illinois and Stoneville, Mississippi IBPGR Designated Base Collection. NSSL has accepted responsibility for maintaining a global collection of Glycine max for long-term conservation as a base collection within the IBPGR network of designated genebanks

Duplication of collection:	Duplicated at the USDA collections at Stoneville, Mississippi or Urbana, Illinois
Availability:	Seed not available unless unobtainable from any other source
Quarantine:	Import permit and phytosanitary certificate required for seed importation
Evaluation:	No evaluation information, strictly a long-term security seed storage facility
Documentation:	Complete and computerized inventory list (includes country of origin)

UNITED STATES OF AMERICA (USA)

USDA Northern Soybean Germplasm Collection
University of Illinois
Department of Agronomy
1102 South Goodwin Avenue
Urbana, Illinois 61801

Telephone: (217) 333 4639
Telex:
Cables:

Curator/person in charge:	R.L. Bernard
Details of collection:	G. max 7327 accessions of worldwide origin G. max 300 genetic types G. soja 675 accessions G. canescens 1 accession G. clandestina 13 accessions G. falcata 2 accessions G. latifolia 6 accessions G. tabacina 27 accessions G. tomentella 17 accessions
Maintenance of collection:	Seed stored at 10°C and 25% RH with a moisture content of 7 to 8% for 10 years, active collection
Duplication of collection:	Duplicated at NSSL, Fort Collins, Colorado
Availability:	Seed freely available for research purposes in limited quantity (G. max 50 seeds, G. soja 10 seeds, and perennial Glycine species 5 seeds per request)
Quarantine:	Import permit and phytosanitary certificate required for seed importation
Evaluation:	Collection consists of: G. max Maturity Groups 000 to IV G. soja Maturity Groups 000 to X Complete characterization for 10 descriptors (maturity group, stem termination, flower colour, pubescence colour, pod colour, pubescence type, pubescence density, seed coat colour, hilum colour, and seed coat lustre). Additional evaluation for 15 descriptors (yield; height; lodging; mottling; shattering; branching; seed weight; seed quality; oil and protein content; oil and protein composition; and other seed, leaf, and plant characteristics) and for disease reaction to phytopthora, frogeye leafspot, and pythium rot
Documentation:	Complete and manual inventory list. Data being entered into the national computerized Germplasm Resources Information Network (GRIN). Evaluation data (including country of origin) on named varieties, FC strains, and PI 19.986 to 266.807 published in: Bernard, R.L., 1965. Agronomic Evaluation of Groups 00 and 0 of the USDA Soybean Collection. RSLM 223. 27 p. U.S. Regional Soybean Laboratory, Urbana, Illinois.

UNITED STATES OF AMERICA (continued)

Bernard, R.L., and Cremeens, C.R., 1966. Evaluation of Maturity Groups I and II of the USDA Soybean Collection. RSLM 230. 67 p. U.S. Regional Soybean Laboratory, Urbana, Illinois.
Bernard, R.L., and Cremeens, C.R., 1969. Evaluation of Maturity Groups III and IV of the USDA Soybean Collection. RSLM 238 (Revised 1981). 34 p. U.S. Regional Soybean Laboratory, Urbana, Illinois.
Bernard, R.L., and Cremeens, C.R., 1970. Evaluation of Maturity Groups 00 to IV Named Varieties of the USDA Soybean Collection. RSLM 244. 31 p. U.S. Regional Soybean Laboratory, Urbana, Illinois.
Evaluation data (including country of origin) on named varieties and PI 273.483 to 445.845 in process of publication

UNITED STATES OF AMERICA (USA)

USDA Southern Soybean Germplasm Collection
Mississippi Agricultural and Forestry Experiment Station
P.O. Box 196
Stoneville, Mississippi 38776

Telephone: (601) 686 9311
Telex:
Cables:

Curator/person in charge: E.E. Hartwig

Details of collection: G. max 3000 accessions mainly from central to southern Asia

Maintenance of collection: Seed stored at 10°C with 50% RH for 5 years; active collection

Duplication of collection: Duplicated at NSSL, Fort Collins, Colorado; and partly in Brazil

Availability: Seed freely available in limited quantity (25 to 50 seeds per request)

Quarantine: Import permit and phytosanitary certificate are required for seed importation

Evaluation: Complete characterization for 16 descriptors (flower date, maturity date, height, flower colour, pod colour, pubescence colour, pubescence type, seed coat colour, hilum colour, seed size, seed quality, oil and protein content, oil and protein composition, and shattering) and for reaction to bacterial pustule, frogeye leafspot, phytophthora rot, leafhopper injury, and salt

Documentation: Complete and manual inventory list.
Data being entered into the national computerized Germplasm Resourced Information Network (GRIN).
Evaluation data (including country of origin) for named varieties FC and PI 36.906 to 381.685 published in:
Hartwig, E.E., and Edwards, Jr., C.J., 1975. Evaluation of Soybean Germplasm Maturity Group V to X. 126 p. Delta Branch Experiment Station, Stoneville, Mississippi.
Evaluation data (including country of origin) for PI 385.943 to 424.616 published in:
Hartwig, E.E., and Edwards Jr., C.J., 1980. Evaluation of Soybean Germplasm II. Maturity Groups V to IX. 86 p. Stoneville, Mississippi.

UNITED STATES OF AMERICA (USA)

International Soybean Program (INTSOY)
University of Illinois
Department of Agronomy
1102 South Goodwin Avenue
Urbana, Illinois 61801

Telephone: (217) 333-0158
Telex: 206957 INTAG URBA
Cables: INTSOY

Curator/person in charge: D.R. Erickson/J.A. Jackobs

Details of collection: G. max 1009 accessions of worldwide origin

Maintenance of collection: Seed stored at 10°C and 59% RH with a moisture content of 10%

Duplication of collection: Duplicated in part at donor institutions

Availability: Seed freely available for research purposes (50 seeds to 1 kg per request)

Quarantine: Import permit and phytosanitary certificate are required for seed importation

Evaluation: Collection consists of Maturity Groups 000 to X. Approximately 70% of accessions characterized for 8 descriptors (yield, maturity group, height, seed weight, seed quality, shattering, pod height, and number of pods per plant)

Documentation: Partially computerized inventory and complete manual inventory lists. Evaluation data (including country of origin) for 30% of collection published in: International Soybean Program. International Agricultural Publications. INTSOY Series Numbers 8, 9, 11, 13, 15, 16, 19, 21, 24, 25, 26, 27, 28. University of Illinois at Urbana-Champaign, Illinois

UNITED STATES OF AMERICA (USA)

Department of Agronomy
University of Illinois
1102 South Goodwin Avenue
Urbana, Illinois 61801

Telephone: (217) 333 9454
Telex:
Cables:

Curator/person in charge: T. Hymowitz

Details of collection: Perennial Glycine species 450 accessions from Australia, south Pacific islands, and west-central Pacific basin

Maintenance of collection: Seed stored at 4°C

Duplication of collection: Duplicated at CSIRO, Canberra, Australia

Availability: Seed availability restricted

Quarantine: Import permit and phytosanitary certificate are required for seed importation

Evaluation: No information

Documentation: Complete and computerized

URUGUAY

Estación Experimental la Estanzuela
Centro de Investigaciones Agricolas
La Estanzuela - Colonia

Telephone: Estanzuela 10
Telex:
Cables:

Curator/person in charge: F.A. Mandl

Details of collection: G. max 265 accessions from Argentina, Brazil, southeast Asia, and USA

Maintenance of collection: Seed stored at ambient temperature for 6 months

Duplication of collection: Not duplicated

URUGUAY (continued)

Availability:	Seed freely available in limited quantity (50 seeds to 1 kg per request)
Quarantine:	Import permit and phytosanitary certificate certified by a Uruguayan Consul in the country of origin are required
Evaluation:	General characterization
Documentation:	Inventory list

VENEZUELA

Centro National de Investigaciones Agropecuarias (CENIAP)
Apartado Aereo 4653
Maracay 2101

Telephone:
Telex:
Cables:

Curator/person in charge:	S.A.O. Ybarra
Details of collection:	G. max 177 accessions from Brazil, Colombia, Guatemala, and USA
Maintenance of collection:	Seed stored at 8°C with 50% RH for 1 year
Duplication of collection:	Not duplicated
Availability:	Seed freely available
Quarantine:	Both import permit, issued not more than 15 days prior to shipment, and phytosanitary certificate, certified by a Venezuelan Consul in the country of origin, are required
Evaluation:	Characterization for 11 descriptors (flowering date, maturity date, harvest date, flower colour, pubescence colour, hilum colour, height, height to first pod, seed size, lodging, and shattering)
Documentation:	Complete and manual inventory list

VIETNAM

Agrobotanical Department
National Institute of Agriculture Sciences
Thanh Tri, Hanoi

Telephone:
Telex:
Cables:

Curator/person in charge:	N.Q. Thang
Details of collection:	G. max 458 accessions from the mountain regions of Vietnam; also from China, France, Japan, and USA
Maintenance of collectic	Seed stored at ambient temperature for 1 year
Duplication of collection:	No information
Availability:	No information
Quarantine:	Phytosanitary certificate is required
Evaluation:	No information
Documentation:	No information

VIETNAM

Beans Research Centre
University of Cantho
Hau Gang

Telephone:
Telex:
Cables:

Curator/person in charge:	L.T. Xua
Details of collection:	G. max 400 accessions from China, USA, and Vietnam
Maintenance of collection:	Seed in cold storage for 6 months
Duplication of collection:	Not duplicated
Availability:	Seed freely available
Quarantine:	Phytosanitary certificate is required
Evaluation:	Characterization in progress
Documentation:	No information

YUGOSLAVIA

Institute of Field and Vegetable Crops
Faculty of Agriculture Novi Sad
2100 Novi Sad, M. Gorkog 30

Telephone: 021 614 933
Telex:
Cables:

Curator/person in charge:	B. Belic
Details of collection:	G. max 1401 accessions from China, Federal Republic of Germany, Japan, People's Democratic Republic of Korea, Romania, USSR, USA, and Yugoslavia
Maintenance of collection:	Seed stored at ambient temperature for 1 year
Duplication of collection:	Not duplicated
Availability:	Seed freely available
Quarantine:	Phytosanitary export certificate is required. Seed must be declared free from Trogoderma granarium (khapra beetle)
Evaluation:	Complete characterization for 4 descriptors (maturity date, yield, oil content, and protein content)
Documentation:	Complete and manual inventory list (includes country of origin)

ZAMBIA

Regional Research Station
P.O. Box 11
Magoye

Telephone: 422/423 Mazabuka
Telex:
Cables:

Curator/person in charge:	J. Joshi
Details of collection:	G. max 727 accessions from Australia, Brazil, Canada, China (including Taiwan), Colombia, Mexico, Senegal, South Africa, Tanzania, USA, and Zimbabwe
Maintenance of collection:	Seed stored at ambient temperature for 9 months

ZAMBIA (continued)

Duplication of collection: Not duplicated

Availability: Seed not available due to limited supply

Quarantine: Import permit and phytosanitary certificate are required for seed importation

Evaluation: Collection consists of 3 maturity groups: early accessions maturing less than 95 days, accessions maturing between 95 to 135 days, and late accessions maturing greater than 136 days. General characterization

Documentation: Complete and manual inventory list

ZIMBABWE

Crop Breeding Institute
P.O. Box 8100
Causeway, Harare

Telephone: 704531
Telex:
Cables:

Curator/person in charge: J.S. Tichagwa

Details of collection: G. max 2236 accessions from Australia, Brazil, China (Taiwan), South Africa, and USA

Maintenance of collection: Seed in cold storage for 5 years, acti collection

Duplication of collection: Partly duplicated at Rattray Arnold Research Station, P.O. Box CH 142, Chisipite

Availability: Seed freely available in limited quantity (25 seed per request)

Quarantine: Import permit is required. Seed must be declared free from bud blight virus and Diaporthe phaseolorum (stem canker)

Evaluation: No information

Documentation: Complete inventory list

References

APPENDIX I

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3. Bernard, R.L., curator, USDA Northern Soybean Germplasm Collection, University of Illinois, Urbana, Illinois, USA (personal communication).

4. Food and Agriculture Organization of the United Nations. 1983. Directory of European Institutions Holding Crop Genetic Resources Collections. European Cooperative Programme for the Conservation and Exchange of Crop Genetic Resources. 2nd ed. FAO Publications Divisions, Rome, Italy.

5. Hanson, J., Fruend R., and Williams, J.T., 1984. Institutes Conserving Crop Germplasm: The IBPGR Global Network of Genebanks. The International Board for Plant Genetic Resources, Rome, Italy.

6. Hymowitz, T., and Newell, C.A., 1981. Taxonomy of the genus Glycine domestication and uses of soybeans. Economic Botany. 35(3):272-288.

7. International Board for Plant Genetic Resources. 1983. Genetic Resources of Soyabean, IBPGR working group on the genetic resources of Glycine species. IBPGR Secretariat, Rome, Italy.

8. Palmer, R.G., research geneticist, USDA, Iowa State University, Ames, Iowa, USA (personal communication).

9. Pu, Mu Hua, head, Soybean Research Station, Institute of Crop Breeding and Cultivation, Chinese Academy of Agricultural Sciences, Beijing, China (personal communication).

10. Tindale, M.D., 1984. Two new eastern Australian species of Glycine Willd. (Fabaceae). Brunonia. 7:207-213.

11. Wong, S. (Ed.), 1984. Administrative report, 2nd U.S.-China soybean symposium, 1983. Office of International Cooperation and Development, USDA, Washington D.C.