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Academy of Sciences of the USSR
Council of the Botanical Gardens

BOTANICAL GARDENS OF THE USSR

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Moscow 1961

P R E F A C E

This work contains information about 91 botanical gardens of the Soviet Union. Before 1917 there were only 26 botanical gardens and dendrariums in Russia with its various natural conditions, most of them being located in the European part. First of all it is necessary to mention such old gardens as the Botanical Garden of the Moscow University /founded in 1706/, Leningrad Botanical Garden of the USSR Academy of Sciences /1713/, dendropark Sofievka /1795/, Nikita Botanical Garden in the Crimea near to Yalta /1812/ and some others. Only one botanical garden was on the whole Asiatic part /in Tomsk/. Before the revolution botanical gardens mainly were state property, subordinated to the universities and other higher educational establishments. Several gardens and parks were private. Thin network, disconnection, scanty finances - this everything restricted useful work of the botanical gardens at that time.

After the revolution this situation was radically changed. Paying paramount attention to the development of national economy on the base of strict scientific planning the Soviet power granted great possibilities for the investigation of the productive forces of the country and development of all branches of science. Biological sciences, botany and introduction of plants in particular, have

gained new possibilities for their development. With the development of the scientific-research institutions and higher educational establishments, new botanical gardens were organized in the country. Old botanical gardens have gained new perspectives for their development and research work. The number of the botanical gardens was increased, better geographical localities were chosen for their organization. At present they situated in almost all climatic zones of the country which is rich in vegetable resources.

The ^{great} part of the botanical gardens is concentrated in the European part of the USSR in forest, forest-steppe and steppe zones.

In the North, behind the Polar circle, the Polar-Alpine Botanical Garden /near to Kirovsk, on the Kola Peninsular/ successfully conducts the work. A number of the botanical gardens and dendrariums is located in the South of the Soviet Union, under subtropical conditions, /Tbilisi, Batumi, Sukhumi, Sochi, Yerevan, Baku/. The botanical gardens of Uzbekistan, Turkmenistan, Tadjikistan, Kirghizia are situated in the Middle Asia. Extremely interesting work is conducted in the botanical garden in Khorog located high in the Pamirs, at height of 2320 m. above sea level.

There are several botanical gardens in the Far East on the Pacific Coast, in Siberia with its cold continental climate, in the Urals.

The distribution of the botanical gardens in the Soviet Union is shown ~~as follows~~ below:

	Number of the botanical gardens
European part of the USSR	56
Caucasus	11
Ural, Siberia, and Far East . . .	9
Middle Asia	15

	91

These botanical gardens are subordinated to various departments and therefore the purposes of their work somewhat differ:

I. Botanical gardens of the USSR Academy of Sciences and its branches . .	7
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III. Botanical gardens of the Lenin All-Union Academy of Agricultural Sciences	2
IV. Botanical gardens of the universities, pedagogical, agricultural, forestry, medicinal and pharmaceutical higher educational establishments	42
V. Botanical gardens of other institutions and organizations	13

Botanical gardens of the Soviet Union are the scientific-research and instructive institutions. They elaborate

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theoretical and practical objects of introduction and acclimatization of plants new for this part of the country, investigate natural flora of the country, search and initially estimate \leftarrow } new useful plants for national economy.

Several botanical gardens besides the work on introduction and acclimatization of plants, pay great attention to the problems of species formation and origination of new forms and sorts of various plants. For example, theoretical works on the remote hybridization of plants are conducted at the Main Botanical Garden of the USSR Academy of Sciences. This works were widely applied to the cereals and as a result of this work new high-yielding and economically important sorts of wheat were obtained. They were originated from crossing *Triticum vulgare* and *Agropyron glaucum*. Some other plants in this garden were also subjected to the remote hybridization. Similar works are carried out also at the Botanical Garden of the Uzbek Academy of Sciences in Tashkent, at the Kishinev Botanical Garden of the Moldavian Academy of Sciences.

Botanical gardens of the universities and other higher educational establishments /pedagogical, agricultural, etc./ are used for the purposes of education. Students do their practical work here, make course and diploma papers. Besides that, at the botanical gardens subordinated to the higher educational establishments, the pedagogical staff of the chairs conducts scientific researches on the intro-

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duction of plants.

Large botanical gardens also train specialists - botanists of higher qualification. Specialists guided by the authoritative professors, prepare their candidate and doctor theses. Themes linked with the purposes of the botanical gardens are suggested for these theses. The rich floral material from the collections of the gardens or from the nature is used.

Botanical gardens take an active part in greening, recommend trees, shrubs, grasses and decorative plants, hardy in city parks. In the course of introduction and acclimatization, in the course of the initial trial of the great number of various sorts and species, the botanical gardens select the best and most interesting sorts and varieties and transfer them to the city nurseries for propagation and planting in city gardens and parks.

Traditional exchange of seeds and plants is kept in every way possible and developed by the botanical gardens of the Soviet Union. This exchange with the botanical institutions both in the country and abroad is carried out on large scale. From 91 Soviet botanical gardens 74 publish yearly lists of seeds which they offer for the exchange. The seed lists of the largest botanical gardens include not only those plants which are grown in their collections but also the seeds gathered during the expeditions to the places of the natural habitat.

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The botanical gardens publish the results of their investigations in the Proceedings, monographs and collected articles dealing with the special subjects and also in the periodicals and botanical magazines. One of these organs is the „Bulletin of the Main Botanical Garden“ /4 - 5 issues yearly/ publishing materials from various botanical gardens and dendrariums.

All botanical gardens of the Soviet Union conduct instructive work popularizing botanical knowledge among the people. All of them, besides those which are under construction, are opened to the public or for the excursions. They advise both orally and in written form, publish instructions on the culture and agrotechnics of many new or rare plants. Scientists read scientific-popular lectures, hold discussions on questions of general biology, various branches of botany and agriculture to the wide audience.

Close contacts with school is also one of the forms of the work of botanical gardens. Schoolchildren of senior classes come to the lectures of specialists and do practical training under their observation. These works inculcate habits of work and first horticultural knowledge to schoolchildren. Besides that, botanical gardens are closely connected with the children's organizations, popularizers and many other organizations. The work of botanical gardens is interesting and instructive.

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Botanical gardens take part in the flower shows and exhibitions showing their works in the field of introduction and assimilation of native flora.

Scientific work of all botanical gardens of the Soviet Union is coordinated by the Council of the botanical gardens which was formed in 1952 in Moscow, at the Main Botanical Garden of the USSR Academy of Sciences.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Main Botanical Garden, Botanicheskaya st., 4, Moscow 1-276. Founded in 1945.

Ownership and affiliation: Academy of Sciences of the USSR.

Longitude: 37°34' E. Latitude: 55°45' N. Altitude: 140 m.

Mean annual rainfall: 587 mm. Annual temperature range: 3,8°C.

Area: 360 hect.

Number of species and varieties grown: 8273 species and varieties, 6505 sorts and forms.

Time of greatest floral display: May - August.

Collections of special interest:

1). Native flora:

plants of the European part of the USSR - 515 species;

plants from the Caucasus and the Crimea - 768 species;

plants from Central Asia - 536 species;

plants from Siberia and Altai - 393 species;

plants from the Far East - 866 species;

useful native plants - 631 species;

2). Trees and shrubs: 1846 species and varieties, 477 forms and 19 hybrid forms.

3). Decorative flowers:

narcissi, tulips and other bulb plants - 721 sorts,

irises - 256 sorts and garden forms,

gladioli - 481 sorts,

peonies - 162 sorts,

dahlias - 450 sorts,

phloxes - 175 sorts,

roses - 2500 sorts,

lilacs - 200 sorts

other perennials 734 sp., 20 var., 270 sorts.

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4/ Cultivated plants:

Fruits, berries - 150 sp., 650 sorts

Vegetables - 53 sp., 144 sorts

Medicinal - 78 sp.

History of the cultivated plants of the USSR - 380 sp.

Technical - 61 sp.

5/ Tropical and subtropical plants: 1200 sp., 200 var. and forms.

Chief objectives of the institutions: theory of introduction and acclimatization. Remote hybridization of plants. Theory of greening of cities and towns. Scientific-instructive work.

Name of the Director, with title and special fields of interest:

N.V.Tsitsin, academician; remote hybridization of plants.

Other staff members, with titles and special fields of interest:

A.V.Astrov, scientific agriculturist, chief of the Exchange Division; plant growing, seed production and plant anatomy.

A.V.Blagoveschensky, doctor of biology, prof., chief of the laboratory of the physiology of the plant development; biochemical evolution of plants.

V.N.Bylov, candidate of biology, chief of flower growing division; introduction and breeding of decorative flowers.

M.V.Kultiasov, doctor of biology, prof., chief of the Flora Division; botany and introduction of native flora.

P.I.Lapin, cand.of biology, deputy director, chief of Dendrology Division; dendrology.

Y.N.Malyghin, doctor of agriculture, scientific secretary;
plant breeding.

G.S.Ogholevets, cand.of agric., secretary-in-chief of the
editorial board of the Bulletin of the Main botanical
garden; introduction of medicinal plants.

I.M.Petrov, cand.of architecture, chief of the garden plan-
ning division; landscape architecture.

Mrs.V.A.Poddubnaya-Arnoldy, doctor of biology, prof., chief
of the embryology laboratory; plant embryology.

K.T.Sukhorukov, doctor of biol., prof., chief of the division
of tropical and subtropical plants and chief of the la-
boratory of plant immunity; physiology of plant immunity.

V.F.Verzilov, doctor of biology, prof., chief of the division
of cultivated plants; plant physiology, physiology of
growth stimulants.

V.A.Voroshilov, cand.of biology, chief of herbarium; taxo-
nomy.

E.S.Cherkassky, doctor of veterinary, prof., chief of the
division of plant protection and vegetable poisons;
virology, arachno-entomology and toxicology.

Herbarium: 40 000 lists.

Library: 102 000 volumes.

Greenhouses: display - 1: 19 sections /joint complex/ with the
area of 5000 m², service - 1 /3 sections/, quarantine - 1
/3 sections/.

Departments: flora; dendrology; flower growing; cultivated plants; tropical and subtropical plants; herbarium; exchange and collection of plant resources; plant protection and vegetable poisons; planning of the garden; scientific-experimental division „Sneghiry” near Moscow.

Laboratories: remote hybridization; physiology of the plant development; embryology; immunity of plants.

Open to public display: greenhouses June - September daily, except Mondays, from 10 up to 18; during other months from 10 up to 17. Expositions of the open ground - only in summer /May 15 - September 30/ from 10 up to 20.

Publications:

„Bulletin of the Main Botanic Garden” /appeared in 1948/,
3 - 4 volumes yearly.

„Proceedings of the Main Botanic Garden” /appeared in 1949,
8 volumes/. First 3 volumes contained various papers.

Vol.4. Questions of plant protection from pests and diseases. 1954.

Vol.5. Experiments with tea plant in Middle Asia. 1956.

Vol.6. Embryological investigations of Angiospermae. 1959.

Vol.7. Investigation of biology and biochemistry of germination. 1960.

Vol.8. Evolutional biochemistry of plants. 1961.

Seed List /appeared in 1948, published yearly/.

Monographs:

A.V. Blagoveschensky. „Biochemical foundations of the plant evolution”. 1950.

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K.T.Sukhorukov. „Physiology of plant immunity”. 1952.

N.V.Tsitsin. „Remote hybridization of plants”. 1954.

„Remote hybridization of cereals”. Articles edited by N.V.Tsitsin.

1958.

A.V.Blagoveschensky. „Biochemistry of the exchange of nitrogen-containing substances in plants”. 1958.

V.A.Poddubnaya-Arnoldy and V.A.Selezneva. „Cultivation of orchids”

1958.

K.T.Sukhorukov. „Beiträge zur Physiologie der pflanzlichen Resistenz”. Berlin, Akademie-Verlag, 1958.

R.L.Perlova. „Behaviour of wild and cultivated species of potato in various geographical zones of the Soviet Union”. 1958.

N.V.Tsinger. „Seed, its development and physiological characteristics”. 1958.

M.P.Sokolov. „Botanical Gardens, construction and planning”. 1959.

„Trees and shrubs. Results of introduction”. 1959.

V.N.Voroshilov. „Rhythm of the development of plants”. 1960.

V.N.Voroshilov. „Valeriana officinalis L.”. 1960.

„Decorative perennials. Results of introduction”. 1960.

N.I.Dubrovtitskaya. „Regeneration and age variation of plants”.

1961.

„Tropical and subtropical plants. Results of introduction in the greenhouse of the Main Botanic Garden”. 1961.

„Native plants of the USSR. Results of introduction”. /In print/.

„Roses. Results of introduction”. /In print/.

V.V.Filippov. „Biotin in plants and the living organism”. /In print/.

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E.P.Protsenko and A.E.Protsenko. „Atlas od diseases of decorative plants”. 1961.

**V.A.Poddubnaya-Arnoldy. „General Embryology of Angiospermae”.
/ready for printing/.**

Descriptive books:

Short description of the greenhouse of the Main Botanical garden. 1957.

Short description of the Main Botanical Garden. A guide-booklet. 1959.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: The Botanical Garden of the Komarov Botanical Institute of the USSR Academy of Sciences.

Leningrad 22. Professor Popov street 2. Founded in 1713.

Ownership and affiliation: a division of the Komarov Botanical Institute of the USSR Academy of Sciences.

Longitude: 30°18'E. **Latitude:** 59°58'N. **Altitude:** 2 - 4 m.

Mean annual rainfall: ~~522~~⁵⁶⁵ mm. **Annual temperature range:** 4,1°C.

Area: 22,5 hect.

Number of species and varieties grown: ^{about} 7000.

Time of greatest floral display: May - June.

Collections of special interest:

- a/ Collection of tropical and subtropical plants in greenhouses - about 3000 specimens and forms, including about 600 specimens and forms of cacti.
- b/ Collections of grassy perennials - about 3000 specimens forms and sorts, including 1200 specimens in rock garden; irises - 260, tulips - about 500, early spring bulbs - about 300 specimens, forms and sorts.
- c/ Dendrological collection - about 1000 specimens, including about 700 specimens and forms in the park-dendrium /area 16 hect./.
- d/ Collection of medicinal plants /attached to the laboratory of the plant resources of the Komarov Botanical Institute/ - 730 specimens and forms.

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Chief objectives of the institution: introduction and acclimatization of plants, popularization of the botanical knowledges.

Name of the Director, with title and special fields of interest

P.A.Baranov, corresponding member of the USSR Academy of Sciences, doctor of biology, professor, embryology of plants/Director of the Komarov Botanical Institute/.

N.A.Avrorin, doctor of biology, introduction and acclimatization of plants /Director of the Botanical Garden/.

Other staff members with titles and special fields of interest:

Artushenko A.T., senior scientific worker, candidate of biology - early spring bulbs, morphology of plants; A.G. Golovach, senior scientific worker, candidate of biology - greening, lawns, lians, conifers; Zamyatnin B.N., senior scientific worker, candidate of biology - introduction of trees and shrubs, morphology of plants; Y.A.Luks, junior scientific worker, candidate of biology, scientific secretary of the Botanical Garden - selection of Chaenomeles, orchids of the open ground; F.S.Pilipenko, senior scientific worker, candidate of biology - introduction of subtropical plants /Eucalyptus gen./; O.M.Poletico, senior scientific worker, candidate of biology - perennial grasses, Astilbe, Campanula, Hemerocallis, history of introduction and assortment of decorative grasses in the USSR; G.I.Rodionenko, senior scientific worker, doctor of biology - Iris /and other genera of Iridaceae/; S.G.Saakov, senior

scientific worker, doctor of biology - palms, roses; S.Y. Sokolov, senior scientific worker, doctor of biology, professor - results of introduction of trees and shrubs in the USSR, regularities of introduction and acclimatization of plants.

Herbarium: General Herbarium in the Botanical Institute -

4 850 000 specimens.

Library: 185 000 volumes.

Greenhouses: there are 24 glasshouses /1 hect./ with 43 sections in the garden.

Laboratories and divisions: Park-dendrarium /16 hect./, nurseries of trees and grassy plants, rock garden, glasshouses, seed laboratory./There are 21 laboratories in the Komarov Botanical Institute/

Open to public display: some expositions are opened only in summer - daily from 9 up to 22. Glasshouses - whole year, daily, except Sundays, from 10 up to 17.

Publications:

- a/ Proceedings of the Botanical Institute, ser.VII: „Introduction and acclimatization of plants“. The series appeared in 1950; now volume VIII is at the printers.
- b/ Reference-book „Trees and shrubs of the USSR“. Now, the last VI volume is at the printers.
- c/ Exchange Seed List - Delectus seminum. Published yearly from 1836.
- d/ Descriptive book is at the printer's now and will appear in the nearest future /last edition in 1938/.

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- e/ Album „Park of the Botanical Institute in different seasons“, 1959.
- f/ Booklets about interesting green-house plants /appeared 2 and 1 - at the printer's/.
- g/ No periodicals. Monographs: Saakov S.G. Palms and their cultivation in the USSR. 1954; Golovach A.G. Lawns, their creation and keeping. 1955; Rodionenko G.I. Irises. /At the printer's/.

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International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Far East ~~City~~
 Branch Division
 Division of Siberian ~~Branch~~ of the Academy of Sciences of USSR.

Founded in 1948. Vladivostok, P.O. Oceanskaya, Makovsky st. 27.

Ownership and affiliation: Academy of Sciences of the USSR.

Longitude: 131°54' E. Latitude: 43°07' N. Altitude: 100 m.

Mean annual rainfall: 704,5 mm. Annual temperature range: 3,7°C.

Area: 178 hect.

Number of species and varieties grown: 3712.

Time of greatest floral display: July - August.

Collections of special interest: no.

Chief objectives of the institutions: investigation of the Far East flora and cultivation of the wild useful plants of the Far East. Greening. Display of the vegetable riches of the Far East. Popularization of botany.

Name of the Director, with title and special fields of interest:

E.N. Litvintsev; dendrology.

Other staff members, with titles and special fields of interest:

M.A. Skripka, junior scientist, botanist; wild grasses of the Far East. P.V. Ruzina, junior scientist, agrobiologist; food crops. A.V. Gutnik, junior scientist; flower growing in the protected ground. N.N. Kachura, junior scientist; flower growing in the open ground. A.A. Chashchuchina, junior scientist; seed production.

Herbarium: no.

Library: no.

Greenhouses: no. Nothouse: 200 m².

Departments: no.

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Open to public display: excursions daily from 10 up to 19.

Publications: seed list yearly. Papers are published in the periodicals of the Far East branch of the Siberian branch of the USSR Academy of Sciences.

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International Association of Botanic Gardens

Name and complete address: Polar-Alpine Botanical Garden of the Kolsky
^{Branch}
~~filial~~ of Academy of Sciences USSR. (Murmansk region, Kirovsk,
Kirov street 9a. Founded in 1931.

Ownership and affiliation: Academy of Sciences of USSR.

Longitude: 33°20' E. Latitude: 67°33' N. Altitude: 312-1060 m.

Mean annual rainfall: 809 mm. Annual temperature range: -0,5°C.

Area: 350 hect.

Number of species and varieties grown: 1984.

Time of greatest floral display: end of June - Middle of August.

Collections of special interest: no.

Chief objectives of the institutions: introduction and acclimatization
of plants under arctic conditions. Greening regions of the Arctic
North. Investigations of wild plants of Murmansk region. Geogre-
phy and genesis of soil of Murmansk region and inscrease of soil
fertility.

Name of the Director: A.N. Shlyakov - senior scientist, candidate of
biology; taxonomy (vascular mosses).

Other staff members with titles and special fields of interest:
senior scientists, candidates of biology: O.I. Kuznetsova; taxo-
nomy. N.I. Orlova; taxonomy, geobotany. M.B. Royzin; microbiolo-
gy. T.A. Kozupeeva, junior scientist, candidate of agriculture;
introduction of plants. B.N. Golovkin; introduction of plants.

Herbarium: wild species - 1100 species, cultivated plants - 1334

Library: 33 000 volumes.

Greenhouses display - 100 m², service - 300 m².

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Departments: introduction and greening, flore; **laboratories:** ecology and morphology, physiology and biochemistry, microbiology, soil science.

Open to public display: expositions of perennials, shrubs, tropical and subtropical plants are opened from 9 up till 16 daily.

Publications: Seed list yearly. There are Guide- book and 10 booklets.

Monographs: "Flora of Khibin Mountains, its analysis and history" by B.A.Mishkin. 1953.

"Migration of plants to the Polar North" by N.A.Avrarin, 1956.

"Migration of plants to the Extreme North".

"Questions of botany and soil science in Murmansk Region".

Periodicals: no.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Central Siberian Botanical Garden
 of the Siberian ^{Division} ~~branch~~ of the USSR Academy of Sciences.
 Novosibirsk, ^{P.O.} 1, Zbeltsovsky district. Founded in 1946.

Ownership and affiliation: Academy of Sciences of the USSR,
 Siberia Division.

Longitude: 82°54' E. Latitude: 55°02' N. Altitude: 133 m.

Mean annual rainfall: 459 mm. Annual temperature range: 0,6°C.

Area: 224 hect.

Number of species and varieties grown: species and varieties -
 more than 2000, forms - 657, sorts - 538, hybrids - 3650.

Time of greatest floral display: end of July, August.

Collections of special interest: collection of flora-systemati-
 cum, group of useful plants - medicinal, food, technical and
 alimentary, botanical - geographic zones; decorative flo-
 wers - Dahlia garden, rose garden, garden of permanent
 bloom and perennials, collection of trees and shrubs; culti-
 vated plants - fruit and berries, vegetables and grains.

Chief objectives of the institutions: investigation of flora and
 vegetation, development of natural vegetative resources of
 Siberia. Theoretical basis of introduction and acclimatiza-
 tion of plants. Investigation of the biological basis of
 greening cities and towns. Scientific grounds of creating
 displays.

Name of the director: Mrs. G.A. Bobolevskaya, doctor of biology,
 professor, botanist. Introduction of natural vegetative
 resources.

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Other staff members with titles and special fields of interest:

L.P. Zubcus - candidate of biology, senior research worker, introduction of flower-decorative plants.

A.V. Schwartzova - candidate of biology, senior research worker, botanists, introduction of trees and shrubs.

M.N. Selamatov - candidate of agriculture, senior research worker, botanist, introduction of fruit and berries.

V.F. Altergot - candidate of biology, senior research worker, plant physiology, plant resistance to the unfavourable factors of the environment.

A.R. Verner - doctor of biology, senior research worker, microbiology.

V.S. Fedorova - candidate of biology, senior research worker, biochemistry of vitamin plants.

A.V. Kuminova - doctor of biology, senior research worker, geobotanist, investigation of the vegetative cover of the West Siberia.

T.G. Popova - doctor of biology, senior research worker, lower plant-forms.

Herbarium: wild species - 2500 specimens, cultivated plants - 1000 specimens.

Library: 3000 volumes.

Greenhouses: greenhouse - hothouse complex is under construction; there are two hothouses.

Department of introduction and acclimatization with the laboratories of flora and vegetative resources, decorative gardening, trees and shrubs, introduction and acclimatization of cultivated plants; department of experimental-theoretical investigations with the laboratories of plant physiology, biochemistry,

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microbiology; department of geobotany with the laboratories of geobotany and reconstruction of the vegetative cover, lower plant - forms, herbarium.

Open to public display: dendrarium, flowers and decorative plants, native and cultivated plants.

Publications: seed list, scientific - popular booklets, proceedings (vol. 1, 2, 3, 4), monographs:

V.I. Vereshchagin, K.A. Sobolevskaya, A.I. Yakubova -
Useful plants of West Siberia.

M.N. Salametov - Cherry in West Siberia.

A.V. Kuminova - Vegetative cover of Altai and food base of Altai.

QUESTIONNAIRE 24

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of Biological Institute of the Ural Branch of the Academy of Sciences of the USSR. Founded in 1936. Sverdlovsk - 8, 8 March street, 202.

Ownership and affiliation: Biological Institute of the Ural Branch of the Academy of Sciences of the USSR.

Longitude: 60°38' E. Latitude: 56°48' N. Altitude: 260 m.

Mean annual rainfall: 443 mm. Annual temperature range: 1,0°C.

Area: 48 hect.

Number of species and varieties grown: 1250.

Time of greatest floral display: July - August.

Collections of special interest: intraspecific forms of trees and shrubs and hybrids of native selection.

Chief objectives of the institutions: investigation of polymorphism of plants, introduction and selection.

Name of the Director, with title and special fields of interest: V.I. Shaburov, engineer - forester, junior scientist; selection of trees and shrubs, salicology.

Other staff members, with titles and special fields of interest: S.A. Mamsev, cand. of agriculture, senior scientist; polymorphism of arboreal plants, ecology and introduction of trees.

Herbarium (together with the botanical laboratory of the Biological Institute of the Ural Branch of the USSR Academy of Sciences) - 62 000 lists.

Library of the Institute - 50 000 volumes.

Greenhouses: display - no, service - 350 m².

Departments: introduction and selection of arboreal plants, introduction of grasses, group of the experimental ecology, group of vegetable resources.

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Open to public display: for the special excursions only, from 10 up to 16.

Publications: seed list, booklets and papers in the periodicals.

Booklets:

"Pyramidal Poplars of Ural"

"Assortment of the trees and shrubs for the greening of the cities of the Middle Part of Ural" - 2 issues.

Proceedings: "Introduction and Plant Breeding", vol. I.

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Bashkir Branch of Academy of Sciences of the USSR. Ufa, Polarnaya street 8. Founded in 1932.

Ownership and affiliation: Biological Institute of the Bashkir Branch of Academy of Sciences of the USSR,

Longitude: $56^{\circ}00'$ E. Latitude: $54^{\circ}45'$ N. Altitude: 115-177 m.

Mean annual rainfall: 580 mm. Annual temperature range: $2,6^{\circ}\text{C}$.

Area: 121 hect.

Number of species and varieties grown: 697 species and 475 sorts.

Time of greatest floral display: July - August.

Collections of special interest: decorative grass plants - 112 species and 55 kinds; trees and bushes - 186 species and forms; plants of greenhouse - 204 species; fruit-berry - 20 species and 110 kinds; agricultural - 35 kinds; herbs - 90 species.

Chief objectives of the institutions: investigations of vegetable resources of Bashkir Autonomous SSR. Introduction and selection of decorative plants. Scientific-instructive work.

Name of the Director, with title and special fields of interest: M.V. Kucherov, scientific chief, candidate of agriculture, senior scientific worker; investigation of vegetable resources and introduction of plants (oil-bearing plants and medicinal ones and others).

Other staff members, with titles and special fields of interest: O.A. Kravchenko, candidate of agriculture, junior scientific worker; introduction and selection of flower-decorative plants.

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R.I. Rogova, junior scientific worker; introduction of annual decorative plants.

G.K. Baikov, candidate of agriculture; introduction and investigation of resources of fruit-berry plants.

A.S. Sasharova, candidate of agriculture, junior scientific worker; introduction of trees and bushes.

I.B. Gufranova, junior scientific worker; herbarium.

Herbarium: wild species - 15 000 species, 40 000 specimens;
cultivated plants - 100 species, 500 specimens.

Library is together with Lashkir branch of Academy of Sciences.

Greenhouses: display and service - 1, about 200 m².

Departments: floriculture, trees and shrubs, fruit-berry and vitaminic plants, medicinal and grass plants.

Open to public display - is open daily.

Publications: seed lists, booklets and monographs.

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International Association of Botanic Gardens

Name and complete address: Alma-Ata Botanical Garden of the Kazakh Academy of Sciences. Alma-Ata, P.O. 10. Founded in 1933.

Ownership and affiliation: The Kazakh Academy of Sciences.
Longitude: 76°56'E. Latitude: 43°14'N. Altitude: 856-906 m.
Mean annual rainfall: 577 mm. Annual temperature range: 7,3°C.
Area: 110 hect.

Number of species and varieties grown: 7500.

Time of the greatest floral display: May - August.

Collection of the special interest: no.

Chief objectives of the institution: introduction of plants; popularization of botanical knowledge among people.

Name of the director, with title and special fields of interests: K.K. Kurmanov.

Other staff members with titles and special fields of interest: V.S. Rubanik, candidate of biology, senior scientist, dendrology. A.B. Sushkov, candidate of biology, senior scientist, flower growing. A.N. Matushenko, candidate of biology, senior scientist, ecology of plants.

Herbarium of cultivated plants: no.

Library: 1061 volumes.

Greenhouses: display - no, service - 1.

Departments: dendrology, floriculture, Flora of Kazakhstan and Middle Asia, vegetable resources, introduction.

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2.

Open to public display: on Tuesdays and Fridays from 9 to 15.

Publications: Seed list, Guide-book, 10 monographs.

Periodicals: no.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: The Botanical Garden of the Academy of Sciences of Turkmen SSR. Ashkhabad 12, Keshi. Founded in 1929.

Ownership and affiliation: Academy of Sciences of Turkmen Soviet Socialist Republic.

Longitude: 58 20' E. **Latitude:** 37 58' N. **Altitude** 232 m.

Mean annual rainfall: 228 mm. **Annual temperature range:** 16,2°C.

Area: 18 hect.

Number of species and varieties grown: 2000.

Time of greatest floral display: May, September.

Collection of special interest: collection of arboreal introduced and aborigine species.

Chief objectives of the institution: introduction of arboreal, flower-shrub, tropical and subtropical, and useful grassy plants from the Flora of the USSR and foreign countries with the aim of enrichment of Turkmen Republic by new economic valuable plants.

Name of the Director, with title and special fields of interest:
K.M.Muradov, candidate of biology, introduction of useful grassy plants.

Other staff members with titles and special fields of interest:
L.I.Sokolova, candidate of agriculture, dendrology.

Herbarium: of wild-growing plants - 300 specimens, of cultivated plants - 1000 specimens.

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2.

Library: no.

Greenhouses: display - 1, service - no.

Departments: Department of dendrology, Department of tropical and subtropical plants, Department of floriculture.

Open to public display: Botanical Garden is open to public display 5 days in a week from 10 till 18 o'clock.

Publications: Seed list is published yearly. Guide-book for tourists is printed. Proceedings of Botanical Garden /4 volumes/ are published. Over 200 scientific works, articles and notes of introduction of plants are published.

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QUESTIONNAIRE

International Association of Botanical Gardens

Name and complete address: Botanical Garden of Komarov Botanical Institute of the Azerbaijan Academy of Sciences.

Baku, P.O. 1. Lokbatanskoe chaussée, 1. Founded in 1934.

Ownership and affiliation: Komarov Botanical Institute of the Azerbaijan Academy of Sciences.

Altitude: 101 - 135 m.

Mean annual rainfall: 177 mm. Annual temperature range: 14,3°C.

Area: 47,4 hect.

Number of species and varieties grown: 2500.

Time of greatest floral display: April - May.

Collection of special interest: no.

Chief objectives of the institution: introduction and acclimatization of useful and ornamental plants both the native flora and foreign countries for greening and enrichment of the native flora.

Name of the Director, with titles and special fields of interest: U.M. Agamirov, candidate of biology; dendrology.

Other staff members with titles and special fields of interest: A.G. Aliev, candidate of biology, chief of the greening and decorative gardening; M.M. Mikailov, candidate of agriculture; introduction and plant breeding, chief of the department of acclimatization and plant breeding. M.A. Rzagimov, candidate of biology, senior scientist; introduction of medicinal and ether-oil plants.

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Herbarium of cultivated plants: together with the Botanical
Institute, - 40 000 specimens.

Library: 45 000 volumes.

Greenhouses: two greenhouses (display and service) contain
1200 species of subtropical and tropical plants.

Departments: greening and decorative gardening, acclimatization
and plant breeding, flower growing, seed laboratory.

Open to public display: daily, except Sundays, from 8 up to 15.

Publications: Seed List yearly, papers in the Proceedings of
the Komarov Botanical Institute of the Azerbaijan Academy
of sciences.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Batumi Botanical Garden of the Georgian Academy of Sciences. Batumi, Zeleny mis. Founded in 1912.

Ownership and affiliation: Academy of Sciences of the Georgian Soviet Socialist Republic.

Longitude: 41°38'E. **Latitude:** 41°39'N. **Altitude:** 0 - 220 m.

Mean annual rainfall: 2500 mm. **Annual temperature range:** 14 - 15°C

Area: 108 hect.

Number of species and varieties grown: 1500.

Time of greatest floral display: May - June.

Collection of special interest: Roses, Dahlias, Gladioli.

Chief objectives of the institution: introduction and acclimatization of plants.

Name of the Director, with title and special fields of interest:

D.V.Mandjavidze, candidate of agriculture, senior research worker, investigation of the native flora and vegetation.

Other staff members with titles and special fields of interest:

N.M.Sharashidze, candidate of biology, physiology of plant resistance; A.T.Tsitsvidze, candidate of agriculture, introduced dendroflora; G.A.Gabrishidze, candidate of biology, flower growing and decorative gardening; A.A.Dmitrieva, investigation of native flora and vegetation.

Herbarium of wild species: 2840 specimens /17 400 papers/; **cultivated species:** 1350 specimens /6600 papers/.

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2.

Library: 25 000 volumes.

Greenhouses: display - 1, service - 4.

Departments: Department of introduction and acclimatization, Department of flower growing and decorative gardening, Department of botany, Department of the selection of subtropical plants, Department of new raw materials.

Open to public display: 3 parks and 9 geographical departments are opened to public display daily, at day time.

Publications: Seed list is published yearly, Guide books and booklets in case of need. Proceedings of the garden are published yearly. Monographs appear regularly.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: The Dendrological Park „Alexandria”
of the Ukrainian Academy of Sciences. Belaya Tserkov,
Kiev Region. Founded in 1797.

Ownership and affiliation: The Central Republic Botanic Garden
of the Ukrainian Academy of Sciences.

Longitude: 30° 11' E. Latitude: 49° 47' N. Altitude: 80 - 106 m.

Mean annual rainfall: 524 mm. Annual temperature range: 6,7°C.

Area: 201,5 hect.

Number of species and varieties grown: arboreous plants and
bushes - 500 species, grassy plants - 700 species, flower
plants - 600 species and varieties.

Time of greatest floral display: May - June.

Collections of special interest: collection of Populus, ornam-
ental bushes, flower plants.

Chief objectives of the institution: restoration and develop-
ment of the park, investigation of the park building, in-
troduction and wide reproduction of exotics.

Name of the Director, with title and special fields of interest:
N.M.Grisuk, candidate of agriculture, senior scientific
worker, dendrology.

Other staff members with titles and special fields of interest:
B.E.Balkovski, candidate of biology, senior scientific
worker, geobotany, systematization of plants; M.P.Oleinik,
candidate of biology, junior scientific worker, flower
growing.

Herbarium: wild growing species - 1000 specimens, cultivated plants - 350 specimens.

Library: 2000 volumes.

Greenhouses: display - 1 /70 species/, service - 1 /30 species/.

Laboratories: Agrobiological laboratory.

Open to public display: from 8 till 16 daily.

Publications: Seed list is published yearly. There is a Guide-book.

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International Association of Botanic Gardens

Name and complete address: Dzhezkazgan Botanical Garden. Kazakh SSR, Kereganda region, Dzhezkazgan 1. Founded in 1938.

Ownership and affiliation: Dzhezkazgan branch of Botanical Institute of the Kazakh Academy of Sciences.

Longitude: 67°43' E. **Latitude:** 47°48' N. **Altitude:** 410 m.

Mean annual rainfall: 140 mm. **Annual temperature range:** 4° C.

Area: 31 hect.

Number of species and varieties grown: 450.

Time of greatest floral display: July - August.

Collections of special interest: no.

Chief objectives of the institutions: introduction and acclimatization of plants under the conditions of the clay desert of Dzhezkazgan. Breeding of Dzhezkazgan.

Name of the Director, with title and special fields of interest:
M.B. Kirzhenov, candidate of agric.; plant growing.

Other staff members, with titles and special fields of interest.

M.S. Akhmetov, junior research worker; plant growing. K.M.

Khokhlova, junior research worker; decorative gardening. A.F.

Rubtsov, junior research worker; dendrology. L.K. Aliseeva,

junior research worker, fruit growing.

Herbarium: wild species - 135 lists, cultivated plants - 350 lists.

Library: 7500 volumes.

Greenhouses: no.

Departments: dendrology, decorative gardening, fruit-vegetable growing, vegetable resources.

Open to public display: no.

Publications: no.

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QUESTIONNAIRE

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International Association of Botanic Gardens

Name and complete address: Botanical Garden of ^{the} Botanical Institute of the Academy of Sciences of Tadjik SSR. Dushanbe-17, Keramov street 19. Founded in 1933.

Ownership and affiliation: Botanical Institute of the Tadjik Academy of Sciences.

Longitude: 68°47' E. latitude: 38°35' N. Altitude: 880 m.

Mean annual rainfall: 620 mm. Annual temperature range: 16°C.

Area: 40 hect.

Number of species and varieties grown: above 3200 species of trees and shrubs, 1500 species and sorts of decorative flowers.

Time of greatest floral display: April, May.

Collections of special interest: maple - 58 species, ash - 23 species, oak - 40 species, nut - 27 species, conifers - 170 species, ever green foliage trees and shrubs - 130 species, roses - 17. sorts, lilies - 24 sorts, Bremurus - 16 species, wild tulips - 27 species, cultivated tulips - 200 sorts, Chrysanthemum - 151 sorts and forms, Phlox - 40 sorts, narcissi - 70 sorts.

Chief objectives of the institutions: scientific bases of introduction of plants under the conditions of the South of Middle Asia.

Name of the Director, with title and special fields of interest: A.I. Ismailov, cand. of biology, senior scientist; geobotany and forestry, introduction of trees and shrubs.

Other staff members, with titles and special fields of interest: E.I. Pyatova, cand. of biology, senior scientist; decorative greenhouses. E.I. Boznesenskaya, cand. of biology; morphology and regularity of growth of trees, chief of the plot of the East-Asiatic flora. S.G. Nemberg, junior scientist, chief of the

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collections plots of trees and flora of Middle Asia. N.K.

Marsalskaya, junior scientist; flower growing.

Herbarium: wild species - no, cultivated plants - 1197 lists.

Library: 400 volumes.

Greenhouses: display greenhouse and nurseries under construction.

Departments: dendrological, decorative grasses and seed laboratory
will be organized.

Open to public display: closed for the public, only for the
excursions.

Publications: seed list yearly. Scientific papers and monographs
appear in Izvestia and proceedings of the Tajik Academy of
Sciences.

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International Association of Botanic Gardens

Name and complete address: Botanical Garden of Armenian Academy of Sciences. Yerevan, Kamsker. Founded in 1935.

Ownership and affiliation: Botanical Institute of the Armenian Academy of Sciences.

Longitude: 44°28' E. **Latitude:** 40°08' N. **Altitude:** 1200-1250 m.

Mean annual rainfall: 285 mm. **Annual temperature range:** 11,8° C.

Area: 100 hect.

Number of species and varieties grown: 3735.

Time of greatest floral display: May - June.

Collections of special interest: trees and shrubs of the open ground - 1350 species and varieties; decorative grassy flowers - 320 species, 612 sorts; species of Armenian flora - 990; glasshouse plants - 875 species, medicinal plants - 200 species.

Chief objectives of the institutions: introduction of the decorative plants and greening.

Name of the Director, with title and special fields of interest:

V.O. Kazeryan, doctor of biology, professor, director of the Botanic Institute; plant physiology. T.G. Chuberyan, candidate of agriculture, director of the Botanical Garden; introduction of plants.

Other staff members, with titles and special fields of interest:

Z.A. Astvatsatryan, candidate agriculture; flower growing.

A.O. Mkrtchyan, candidate of biology; dendrology.

A.A. Akhverdov, candidate of biology; biology and ecology of native flora.

V.V. Mirzoeva, candidate of biology; biology and ecology of native flora.

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A.I. Khrinalgen, candidate of agriculture, glasshouse cultures.
Herbarium: wild species of Armenian flora - 1900 specimens, cultivated species - 600 specimens.

Library: 1970 volumes.

Greenhouses: display - no, service - 800 m².

Departments: dendrology, flower growing, flora and vegetation of Armenia.

Open to public display: daily, at day time.

Publications: seed list, 17 volumes of Bulletin, 2 volumes of the Proceedings.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Karaganda Botanical Garden, Karaganda.

Founded in 1940.

Ownership and affiliation: Botanical Institute of the Academy of Sciences of Kazakh Soviet Socialist Republic.

Longitude: 73°08' E. Latitude: 49°48' N. Altitude: 503 m.

Mean annual rainfall: 346,5 mm. Annual temperature range: 2,2°C.

Area: 45,8 hect.

Number of species and varieties grown: 2221.

Time of greatest floral display: July - August.

Collections of special interest: Arboretum, flower-ornamental crops, fruit-berry crops, lawn grass, flora of the Central Kazakhstan, useful plants.

Chief objectives of the institutions: introduction, acclimatization, selection of arboreal, shrub, flower-ornamental, fruit-berry and useful grassy plants.

Name of the Director: J.N. Korneichik, candidate of agriculture, senior scientific worker; fruit-berry plants.

Other staff members with titles and special fields of interest:

V.G. Katyshchevtseva, candidate of biological sciences, senior scientific worker, botany. A.S. Sitnikova, junior research worker, physiology of plants. E.S. Kalugin, junior research worker, dendrology. E.E. Riklepa, junior research worker, floriculture.

Herbarium: wild species - 914 specimens, cultivated plants - 90 specimens.

Library: 2746 volumes

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2.

Greenhouses: display $\frac{1}{2}$ (500 m²), service $\frac{1}{2}$ (300 m²).

Departments: dendrology, horticulture, fruit-berry plants.

Laborstories: physiology, biochemistry and agricultural chemistry, protection plants.

Open to public display: arboretum, dendropark, flower-ornamental plants, fruit-berry crops, useful grass, Wednesday and Friday from 12 till 16.

Publicstions: seed lists from 1947^{yearly.}. Works of the Kereganda botanical garden, 1960, volume 1.

QUANTIFICATION**International Association of Botanic Gardens**

Name and complete address: Kaunas Botanical Garden of the Botanical Institute of the Lithuanian Academy of Sciences. Kaunas 19, Botanikos prospect 1. Founded in 1923.

Ownership and affiliation: Botanical Institute of the Academy of Sciences of the Lithuanian Soviet Socialist Republic.

Longitude: 25°53' E. **Latitude:** 54°35' N. **Altitude:** 73 m.

Mean annual rainfall: 600 mm. **Annual temperature range:** 6,4°C.

Area: 76 hect.

Number of species and varieties grown: 3865.

Time of greatest floral display: April - September.

Collections of special interest: Alpine-mountain plants, peonies, climbing wood plants, roses.

Chief objectives of the institutions: introduction of useful plants, further the planting trees and shrubs, popularization of botanical knowledge.

Name of the Director: Mrs. M.K. Lukajtene - decorative planting of trees and shrubs.

Other staff members with titles and special fields of interest:

A. Urbonas - candidate of biology, reader, pomologist, stone fruit crops.

A. Morkunas - candidate of biology, physiologist, oil-bearing plants, frostresistance.

S. Gudavichus - candidate of biology, medicinal plants.

P. Mikhiloaks - cultivated technical plants.

O. Skejvene - cultivation and selection of flowers.

Petruskajte - candidate of biology, phytopathology.

Herbarium: wild species - 1100 specimens, cultivated plants - 2100 specimens.

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Library: 4334 volumes.

Greenhouses: display - 6, service - 2.

Departments: dendrological, decorative flowers, medicinal-technical, alimentary - food plants, pomology, flora, glass-houses, botanical museum; plant protection laboratory.

Open to public display: daily, except Saturday, from 9 to 13 and from 14 to 17; on Sundays - from 11 to 17.

Publications: seed list (35 issues), booklets etc.

A. Urbonas - "Gardening", "Zhager cherry and its cultivation"

M. Lukajtene - Trees and shrubs introduced in the parks and gardens of the Lithuanian SSR.

O. Skejvens - "Cultivation of flowers", "Management of the indoor plants".

B. Gudanevichus - "Hop and its cultivation", "Medicinal plants"

S. Gudanevichus a. P. Mikshionis - "Medicinal and technical plants".

A. Morkunas - "New oil-bearing plants".

"Several data on the cultivation of grape under the conditions of Lithuanian SSR".

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Central Republic Botanical Garden of the Ukrainian Academy of Sciences. Kiev 14, Timirjasevskaya street 1. Founded in 1936.

Ownership and affiliation: Ukrainian Academy of Sciences.

Longitude: 30°27' E. Latitude: 50°24' N. Altitude: 179 m.

Mean annual rainfall: 622 mm. Annual temperature range: 7,0°C.

Area: 180 hect.

Number of species and varieties grown: 11 800.

Time of greatest floral display: May - June.

Collections of special interest: lilac, Beutzia, Weigela, Glanthis, phyladelphus, medicinal, food and technical plants, fruit gardens.

Chief objectives of the institutions: acclimatization and creation of new, more productive form and sorts of trees, fruits and berries, decorative, technical, food, medicinal and other plants of native and cultivated flora.

Name of the Director, with title and special fields of interest: E.N. Kondrstuk, candidate of biology, senior scientist; flora and taxonomy, geobotany, darvinism.

Other staff members, with titles and special fields of interest: V.P. Zosimovich, prof., corresponding member of the Ukrainian Academy of Sciences; genetics and selection. L.I. Rubtsov, prof., doctor of biology; dendrology, park creation. V.P. Popov, doctor of agriculture; agrochemistry, physiology of plant nutrition. B.A. Makarevich, candidate of biology, senior scientist; photoperiodism of plants. I.E. Kocherzhenko,

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candidate of biology, senior scientist; plant physiology.

S.S. Kherkevich, candidate of biology, senior scientist, taxonomy of the higher plants.

Herbarium: wild species - 7050 specimens, cultivated plants - 313 specimens.

Library: 44 024 volumes.

Greenhouses: display - 1216 m², service - 1216 m².

Departments: flora of the USSR, cultivated flora, dendrology, physiology and biochemistry, plant ecology, plant genetics, flower growing, plant protection. Seed laboratory.

Open to public display: some parts of the garden are opened for the public.

Publications: seed list (1418 species). Guide-book is prepared.

Booklet "Lilac garden". Set of papers "Acclimatization of plants". Magazine "Vestnik".

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Kirovskan branch of Botanical Garden of the Armenian Academy of Sciences. Kirovskan, Vansadzorakoye Ushchellik. Founded in 1935.

Ownership and affiliation: Botanical Institute of the Armenian Academy of Sciences.

Longitude: 44°30' E. Latitude: 40°49' N. Altitude: 1400-1450 m.

Mean annual rainfall: 618 mm. Annual temperature range: 7,3°C.

Area: 14 hect.

Number of species and varieties grown: 650.

Time of greatest floral display: June, August.

Collections of special interest: trees and shrubs of the open ground (600 species and varieties), decorative grassy ^{flowers} - 50 species.

Chief objectives of the institutions: introduction of decorative plants and creation of park expositions.

Name of the Director, with title and special fields of interest: chief of the garden - G.I. Ademyantz, acting senior research worker, forestry.

Other staff members, with titles and special fields of interest: no.

Herbarium: no.

Library: no.

Greenhouses: no.

Departments: no.

Open to public display: park and Dahlia garden - daily, at day time.

Publications: no.

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Academy of Sciences of the Moldavian SSR. Kishinev, Dunsevsky street 5. Founded in 1950.

Ownership and affiliation: Academy of Sciences of the Moldavian SSR.

Longitude: 28°52' E. **Latitude:** 47°^{01'} N. **Altitude:** 115 m.

Mean annual rainfall: 450 mm. **Annual temperature range:** 8,5°C.

Area: 74,5 hect.

Number of species and varieties grown: 6565.

Time of greatest floral display: May - September.

Collections of special interest: decorative flowers, trees and shrubs, ether-oil, medicinal, nutritive, food and technical plants.

Chief objectives of the institutions: introduction and acclimatization, greening. Investigation of flora and vegetation of Moldavia. Elaborating of the scientific bases for the creation of the botanical gardens.

Name of the Director; with title and special fields of interest:

T.S. Geideman - candidate of biology, reader; geobotany.

Other staff members, with titles and special fields of interest:

B.G. Kholodenko, candidate of biology; dendrology. N.L. Sharova, candidate of biology; flower growing. B.I. Ivenovs, candidate of biology; ether-oil plants. V.A. Rybin, doctor of biology, prof.; genetics, remote hybridization. Z.V. Yanushevich, candidate of biology; cultivated plants. L.P. Posharisnaysa; food grasses, lawns. B.T. Matkenko, candidate of biology; anatomy of plants.

Herbarium: no.

Library: no.

Greenhouses: no.

Departments: dendrarium, decorative flower growing, cultivated flora, flora of Moldavia.

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2.

Laboratories: remote hybridization, plant anatomy, geobotany.

Open to public display: daily, from 10 up to 15.

Publications: Seed list. Booklets, Papers appear in the **Izvestia of the Moldavian Academy of Sciences**. Monographs: "Trees and shrubs of the Moldavian SSR", vol. I. "Determiner of plants of the Moldavian SSR".

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Leninsbad Botanic Garden. Leninsbad,
Pravyi bereg, P.O. 6. Founded in 1955.

Ownership and affiliation: the Botanical Institute of the Tadjik Academy of sciences.

Longitude: 69°44' E. Latitude: 40°13' N. Altitude: 335 m.

Mean annual rainfall: 100-200 mm. Annual temperature range: 14°C.

Area: 70 hect.

Number of species and varieties grown: 2900.

Time of greatest floral display: April, October.

Collections of special interest: no.

Chief objectives of the institutions: introduction and acclimatization of plants.

Name of the Director, with title and special fields of interest:

M.A. Nasyrov, reader.

Other staff members, with titles and special fields of interest: no.

Herbarium: wild species - 1400 specimens, cultivated plants -
1200 specimens.

Library: 285 volumes.

Greenhouses: display - no, services - 3.

Departments and Laboratories: 1) Introduction and acclimatization of trees and shrubs; 2) decorative horticulture; 3) native flora; 4) demonstrative Michurin plot; 5) seed laboratory.

Open to public display: no.

Publications: seedlist is annually being published (published 3 issues).

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QUESTIONNAIRE**International Association of Botanic Gardens**

Name and complete address: Altai Botanical Garden, Leninogorsk,
East = Kazakhstan region, Kazakh SSR. Founded ⁱⁿ 1936.

Ownership and affiliation: Academy of Sciences of the Kazakh Soviet Socialist Republic.

Longitude: 83°33' E. **Latitude:** 50°20' N. **Altitude:** 760 - 880 m.

Mean annual rainfall: 667 mm. **Annual temperature range:** 1,6°C.

Area: 180 hect.

Number of species and varieties grown: 1405.

Time of greatest floral display: perennials - June, annuals - the beginning of August.

Collections of special interest: decorative shrubs and trees, annual and perennial flowers, native decorative and medicinal flowers, subtropical and tropical plants, food, technical, medicinal, nectariferous, cultivated (vegetable and fruit-berry) plants.

Chief objectives of the institutions: introduction of trees and shrubs, decorative flowers, vegetables, fruit and berries.

Cultivation of wild useful grassy plants of Altai.

Name of the Director: M.A. Logvinenko - junior research worker; instruction and introduction of fruit-berry plants.

Other staff members with titles and special fields of interest:

M.A. Polomeeva - junior research worker; introduction of decorative flowers.

Herbarium: wild plants - 617 specimens, cultivated plants - no.

Library: 5694 volumes.

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2.

Greenhouses: display - no, service - 1 (118 species).

Departments: dendrology, decorative flowers, Altsi flors, vegetab-
les and potato, fruit and berries.

Open to public display - daily.

Publications: seed list yearly.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Central Botanical Garden of ^{the} Academy of Sciences of the Byelorussian SSR. Minsk 13, Akademicheskaya street 31. Founded in 1931.

Ownership and affiliation: Academy of Sciences of the Byelorussian SSR.

Longitude: 27°32' E. Latitude: 53°50' N. Altitude: 211 m.

Mean annual rainfall: 622 mm. Annual temperature range: 5,3°C.

Area: 96 hect.

Number of species and varieties grown: 7430.

Time of greatest floral display: June - August.

Collections of special interest: trees, lilacs, tulips, roses, gladioli.

Chief objectives of the institutions: introduction and acclimatization of plants, greening.

Name of the Director, with title and special fields of interest:

N.V. Smolsky, academician; introduction and selection.

Other staff members, with titles and special fields of interest:

V.G. Antipov, senior scientist, candidate of agriculture; greening.

S.V. Gorlenko, senior scientist, phytopathology.

E.V. Ivanova, senior scientist, candidate of agriculture; taxonomy of the higher plants.

I.A. Kaurov, senior scientist, candidate of agriculture; introduction and acclimatization of technical and medicinal plants.

L.P. Lagun, senior botanist, candidate of agriculture; agronomy.

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2.

A.S. Merlo, senior botanist, candidate of agriculture; flower growing.

I.I. Chekelinskaya, senior scientist, candidate of biology; plant biochemistry.

N.V. Shkutko, senior botanist, candidate of agriculture; dendrology.

Herbarium: no.

Library: 3100 volumes.

Greenhouses: display - 1620 m², service - no.

Laboratory of biochemistry of plants, plant protection, physics - chemistry of soils.

Open to public display: daily, except Mondays, from 10 up to 19.

Publications: seed list (980 names), descriptive booklet, scientific papers.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanic Garden of the Karakalpak Branch of the Uzbek Academy of Sciences. (Uzbek SSR, Nukus), K. Marx street 2. Founded in 1958.

Ownership and affiliation: the Academy of Sciences of the Uzbek SSR.

Longitude: 59°37' E. **Latitude:** 42°27' N. **Altitude:** 76 m.

Mean annual rainfall: 82 mm. **Annual temperature range:** 11°C.

Area: 50 hect.

Number of species and varieties grown: 400.

Time of greatest floral display: July - September.

Collections of special interest: no.

Chief objectives of the institutions: introduction of trees and shrubs and grass plants.

Name of the Director, with title and special fields of interest:

S.I. Sagitov, dendrology, especially Salix.

Other staff members, with titles and special fields of interest:

B.N. Sagitov and A. Nedirov, introduction of trees, shrubs and grass plants.

Herbarium: no.

Library: 200 volumes.

The greenhouses are under construction.

Departments of dendroflora and grass plants.

Open to public display: the garden is closed to public display.

Publications: no.

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L. K. Sunde

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QUESTIONNAIRE**International Association of Botanic Gardens**

Name and complete address: Botanical garden of the Latvian Academy of Sciences. Riga, P.O. Salaspils. Founded in 1956.

Ownership and affiliation: the Latvian Academy of sciences.

Longitude: 24°04' E. **Latitude:** 56°58' N. **Altitude:** 16 - 26 m.

Mean annual rainfall: 634 mm. **Annual temperature range:** 5,6°C.

Area: 132,4 hect.

Number of species and varieties grown: 9000.

Time of greatest floral display: April - May, July - August.

Collections of special interest: dendrology, collections of native flora, decorative plants (annual, perennial, tuber-bulbs, roses, plants of greenhouse condition, cultivated plants.

Chief objectives of the institutions: development of works of flora and vegetation, decorative horticulture and planting of trees and shrubs, introduction and acclimatization of useful plants, genetics and selection, physiology and biochemistry of plants.

Name of the director, with title and special fields of interest:

L.K. Sunde, candidate of agriculture; gardening.

Other staff members, with titles and special fields of interest:

K.K. Gutmanis, candidate of biology; biochemist of plants, head of the laboratory of biochemistry of plants.

V.K. Osolin, floriculturist, head of decorative horticulture and planting of trees and shrubs.

V.T. Langenfeld, botanist, head of sector of flora.

A.A. Melchins, horticulturist, head of sector of cultivated plants and plants of greenhouse.

A.A. Rupsis, entomologist, head of the laboratory of plant-protection.

L. K. Sunde

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Herbarium: wild species - 200 lists, cultivated plants - 600 lists.

Library: 10 700 volumes.

Greenhouses - 2400 m².

Departments: sector of decorative horticulture and planting of trees and shrubs, sector of flors, sector of cultivated plants and plants of greenhouse.

Laborstores of plant-protection and biochemistry of plants.

Open to public display: the garden will be open to public display in 1965.

Publications: seed lists is annually published from 1956.

"Introduction of plants and planting of trees and shrubs in Latvia" set of articles, Riga 1959, 1960.

A. Maurin, M. Morkon, A. Svirgsd "Trees and shrubs of the Latvian SSR" Riga, 1959.

A. Rupelis "Dendrofil aphid family in parks of Latvia".
monography, 1961.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Seven branch of Botanical Garden of the Armenian Academy of Sciences. Seven, Armenian Soviet Socialist Republic. Founded in 1944.

Ownership and affiliation: Botanical Institute of the Armenian Academy of Sciences.

Longitude: 44°56'E. **Latitude:** 40°33'N. **Altitude:** 1920 - 1950 m.

Mean annual rainfall: 574 mm. **Annual temperature range:** 4,2°C.

Area: 4 hect.

Number of species and varieties grown: 603.

Time of greatest floral display: June, July.

Collections of special interest: trees and shrubs of the open ground (530 species and varieties), decorative grassy flowers - 56 species, fruit and berries - 17 species, 80 sorts.

Chief objectives of the institutions: introduction of decorative and useful plants. Creation of the garden.

Name of the Director, with title and special fields of interest:

V.A. Azaryan, acting senior research worker; introduction of plants.

Other staff members, with titles and special fields of interest: no.

Herbarium: no.

Library: no.

Greenhouses: no.

Departments: no.

Open to public display: daily, at day time.

Publications: no.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Sukhumi Botanical Garden of the Georgian Academy of Sciences. Sukhumi, Chevchevskze street 18. Founded in 1840.

Ownership and affiliation: the Georgian Academy of sciences.

Longitude: 41°01' E. Latitude: 43°01' N. Altitude: 18 m.

Mean annual rainfall: 1400 mm. Annual temperature range: 8° C.

Area: 12 hect.

Number of species and varieties grown: 820.

Time of greatest floral display: spring and autumn.

Collections of special interest: no.

Chief objectives of the institutions: study of wild and cultivated flora of Abkhazie. Introduction and acclimatization of foreign subtropical arboreal and flowers and investigation of their biological properties.

Name of the Director, with title and special fields of interest:
P.E. Rukhadze, candidate of biology, reader, botanist, taxonomy of plants, dendrology.

Other staff members, with titles and special fields of interest:
A.A. Kolakovski, corresponding member of the Georgian Academy of sciences, professor, pallobotanist.

A.V. Vasiljev, doctor of biology, professor; dendrology.

V.S. Ysbrovskaya, candidate of biology; florist.

V.N. Vashadze, candidate of agriculture; entomologist.

K.U. Odisharia, candidate of biology; dendrology.

Herbarium: wild species - 25 000 lists, cultivated plants - 10 000 lists.

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2.

Library: 25 000 volumes.

Greenhouses: display - 560 species, service - no.

Departments: boteny, introduction and planting trees and shrubs,
vegetable raw materials.

Open to public display: no.

Publications: seed lists, guide-book, 3 booklets. 13 editions of
Sukhumi botanical garden, 2 monographs.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Tallin Botanical Garden. Tallin, Kloostri-
metse street 44. Founded in 1959.

Ownership and affiliation: Estonian Academy of Sciences.

Longitude: 24°48' E. Latitude: 59°25' N. Altitude: 15 m.

Mean annual rainfall: 461 mm. Annual temperature range: 4,7°C.

Area: 126,5 hect.

Number of species and varieties grown: 4738.

Time of greatest floral display: July - August.

Collections of special interest: rose, iris, begonias, pink, succu-
lents.

Chief objectives of the institutions: investigation of plants, their
selection for greening and decorative gardening.

Name of the Director, with title and special fields of interest:

A. Pukk, roses, investigations of various types of landscapes.

Other staff members, with titles and special fields of interest:

V.Vesky, cand. of biology, chief of the decorative gardening
division; roses. A.Pajvel, cand. of biology, chief of the divi-
sion of the dendrology and introduction; dendrology. A.Suvslepp,
scientist; decorative gardening. V.Esinovskaya, cand. of agricul-
ture; decorative gardening. A.Nijne, landscape architector.

Herbarium: wild species - 52 specimens, cultivated plants - 467 spe-
cimens.

Library: no.

Greenhouses: display - 4, service - 10.

Departments: decorative gardening, dendrology and introduction.

Open to public display: the garden is closed.

Publications: seed list yearly.

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QUESTIONNAIRE**International Association of Botanic Gardens**

Name and complete address: Botanical Garden of the Uzbek Academy of sciences. Tashkent 53, Karamurtskaya street 272. Founded in 1943.

Ownership and affiliation: the Uzbek Academy of Sciences.

Longitude: 69°16' E. **Latitude:** 41°16' N. **Altitude:** 485 m.

Mean annual rainfall: 359 mm. **Annual temperature range:** 13,2°C.

Area: 80 hect.

Number of species and varieties grown: 5450.

Time of species and varieties grown: April - June.

Collections of special interest: dendrology park of Middle Asia flora - 236 species, dendropark of Europe and Caucasus - 368 species, dendropark of Far East flora - 160 species, dendropark of Chinese flora (north) - 680 species, dendropark of North America - 536 species, collection of grassy plants introduced gardens - 760 species and varieties, collection of wild-growing tulips - 65 species, species of foreign selection - 300, species of own selection - 900, collection of different bulbs of Middle Asia - 200 species, collection of Pamirs plants - 70 species, collection of species of genus Allium - 90 species, grassy plants of Middle Asia flora - 790 species, collection of decorative plants (hybrids Hibiscus) - 5 varieties, conifers - 185 species, collection of technical, medicinal - 350 species.

Chief objectives of the institutions: introduction and acclimatization of plants in order to enrich Uzbekistan by new useful plants. Scientific-instructive activity.

Name of the Director, with title and special fields of interest: F.N. Russanov, prof., dr. of biology, corresponding member of the Uzbek Academy of Sciences SSR; introduction of plants in dendrology. Genus Hibiscus, Yucca, Crataegus and others.

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2.**Other staff members, with titles and special fields of interest:****senior research workers:**

S.P. Bochan^{ts}seva, doctor of biology, biology of development of plants, morphology, cytology, embryology, monography of genus Tulips.

I.A. Raikova, doctor of biology, corresponding member of the Uzbek Academy of Sciences SSR, ecology, biology of development of plants, morphogenesis of high-mountain plants.

E.S. Borodin, candidate of biology, morphology and biology of plants, morphogenesis of high-mountain plants.

A.A. Abdurahmanov, candidate of biology, dendrology, genus Praxinus. Dendroflora of the Far East.

A.U. Usmanov, candidate of biology, dendrology, genus Populus (Middle Asia) - biology, morphology, systematism.

R.M. Mursoeva, candidate of biology, dendrology, biology of wood of juvenile age (nursery), genus malacocarpus, genus Betula.

T.I. Slivkina, candidate of biology, dendrology, genus Diospyros (biology), genus Spiraea, genus Malus (biology, systematism) biology of wood of juvenile age.

K. Hodgaev, candidate of biology, biology of development of plants, medicinal plants, genus Dioscorea, genus Cassia.

S.N. Filipova, candidate of biology, biology of development of plants, genus Allium.

Herbarium: wild species - 999 specimens, cultivated plants - 840 specimens.

Library: 4012 volumes.

Greenhouses: display is under construction, service - 3.

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3.

Departments: dendrology, introduction of grassy, vegetable resources and cultural flora, subtropical crops, popularization and application.

Laboratories: biology of development and experimental ecology, seed laboratory, pest control and diseases of plants.

Open to public display: the botanical garden is now building and is closed to public display, but it is open to excursions daily from 9 till 15, with the exception of Tuesday.

Publications: Seed List is annually published (2210 species and varieties). There is guide-book: Trees and Shrubs of the Botanical Garden of the Uzbek Academy of Sciences, pt. 1. North-american trees and shrubs. By F.N. Rusanov.

Monographs:

F.N. Rusanov. Middle Asiatic Tamarisks.

The experiment of complex botanical study -
-ing of Middle Asiatic representatives of
-the genus Tamarix. 1949.

F.N. Rusanov. Hybrid hibiscus, their breeding and cultivation. 1953.

T.I. Slavkina. Materials to biology of persimmon (*Diospyros lotus* L., *D. virginiana* L., *D. kaki* L.). 1954.

F.N. Rusanov. Parent introduction of species of genus *Yucca* in Uzbekistan. 1959.

S.P. Kochantseva. Tulips. 1961.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Tbilisi Central Botanical Garden.

^{P.O.}
Tbilisi, 5. Founded in 1845.

Ownership and affiliation: the Georgian Academy of Sciences.

Longitude: 44°57' E. Latitude: 41°41' N. Altitude: 433 - 560 m.

Mean annual rainfall: 530 mm. Annual temperature range: 12,6°C.

Area: 128 hect.

Number of species and varieties grown: 1220.

Time of greatest floral display: May - June, September - October.

Collections of special interest: collection of georgian kinds of grapevine, collection of georgian kinds of fruit-trees.

Chief objectives of the institutions: developing of wild flora in crops. Introduction and acclimatization of ornamental plants and enrichment of their assortment.

Name of the Director, with title and special fields of interest:

M.A. Gogolishvili, candidate of agriculture, senior scientific worker; mulching of soils under agricultural and ornamental plants.

Other staff members, with titles and special fields of interest:

D.I. Losovoi, doctor of agriculture, senior scientific worker; entomology.

B.V. Serdukov, candidate of biological sciences, senior scientific worker; ecology and introduction of grass ornamental plants of the Caucasian wild flora.

T.A. Dumbadse, candidate of biological sciences, senior scientific worker, breeding of flower plants.

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M.S. Akvtimishvili, candidate of biological sciences, senior scientific worker; ~~breeding~~ and ecology of roses.

N.D. Bashindgskeli, candidate of agriculture, senior scientific worker; ecology and ~~breeding~~ of walnut plants.

V.S. Skhiereli, candidate of biological sciences, senior scientific worker; introduction and acclimatization of wood ornamental kinds.

G.K. Managadse, junior scientific worker; ornamental arrangement of parks.

Herbarium: wild species - 340 specimens, cultivated plants - 510 specimens.

Library: 10 664 volumes.

Greenhouses: display - no, service - 120 m².

Departments: introduction of plants, ornamental floriculture, landscape gardening and design, plant protection.

Open to public display: daily, including Sundays, from 9 up to 20.

Publications: "Herald of Tbilisi Botanical Garden" and Seed List are issued yearly. Monographs and booklets are issued periodically.

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Dendrological Park "Trostyanets".

Post Office Ichyns, Chernigov Region. Founded at beginning of XIX century.

Ownership and affiliation: Central Republican Botanic Garden of the Academy of Sciences of the Ukrainian Soviet Socialist Republic.

Altitude: 150 - 200 m.

Mean annual rainfall: 520 mm. Annual temperature range: 6,3°C.

Area: 201 hect.

Number of species and varieties grown: 974 including arboretum.

Time of greatest floral display: May - October.

Collection of special interest: Arboretum.

Chief objectives of the institutions: introduction of trees and shrubs, decorative plants, greening. Popularization of botanical knowledge.

Name of the Director: G.E. Misnik, candidate of agriculture, senior scientist; decorative dendrology.

Other staff members with titles and special fields of interest: no.

Herbarium: under construction.

Library: 2347 volumes.

Greenhouses: no.

Departments and laboratories: no.

Open to public display: daily from 8 up to 16.

Publications: there are booklets, description of the garden.

Periodicals: no.

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QUESTIONNAIRE

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International Association of Botanic Gardens

Name and complete address: the Dendrological Park "Sofievka". Uman,
Founded in 1795. Chercassy Region.

Ownership and affiliation: the Central republican botanical garden
of the Ukrainian Academy of Sciences.

Longitude: 30°14' E. Latitude: 48°46' N. Altitude: 170 - 216 m.

Mean annual rainfall: 496,3 mm. Annual temperature range: 7,4°C.

Area: 129 hect.

Number of species and varieties grown: 520.

Time of greatest floral display: of arboreal and shrub species -
May, June.

Collections of special interest: nurseries and arboretum.

Chief objectives of the institutions: introduction and acclimatiza-
tion of arboreal and shrub plants. Creation of parks. Populari-
zation of the botanical knowledge.

Name of the Director, with title and special fields of interest:
D.S. Krivulko, candidate of agricultural science, restoration
of park landscape.

Other staff members, with titles and special fields of interest:
G.G. Tulupi, junior research worker. Introduction and acclima-
tization of arboreal and shrub species.

Herbarium: wild species - 78 specimens, cultivated plants - 442 spe-
cimens.

Library: 2700 volumes.

Greenhouses: no.

Departments: no.

Open to public display: dendropark "Sofievka" is daily open to
public display.

Publications: see list is published (220 species).

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Botanical Institute of the Kirghiz Academy of Sciences. Frunze, Volgogradskaya street 100. Founded in 1939.

Ownership and affiliation: Kirghiz Academy of Sciences.

Longitude: 74°35' E. **Latitude:** 42°50' N. **Altitude:** 826 m.

Mean annual rainfall: 377 mm. **Annual temperature range:** 10°C.

Area: 120 hect.

Number of species and varieties grown: trees and shrubs 1590 species, native decorative grassy plants 62 species, cultivated flower plants 1200 species and sorts.

Time of greatest floral display: May - September.

Collections of special interest: no.

Chief objectives of the institutions: introduction of trees, shrubs, grasses, medicinal plants, flowers; popularization of botanical knowledge.

Name of the Director: E.Z. Gareev - prof., doctor of biology; fruit growing and their breeding.

Other staff members with titles and special fields of interest:
 V.I. Tkechenko - cand. of biology, senior scientist; botany, dendrology. L.S. Krivosheeva - cand. of biology, senior scientist, flower growing. N.V. Lyaova - candidate of biology, senior scientist; forestry. V.I. Vandysheva - candidate of biology, senior scientist; botany, food and medicinal plants.

Herbarium: wild species - 500 specimens, cultivated plants - 1590 specimens.

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Library: together with the Kirghiz Academy of Sciences.

Greenhouses: there is a hothouse (600 m²).

Groups of the introduction of trees and shrubs; decorative flowers.

Seed department. Garden of fruit hybrids.

Open to public display: daily.

Publications: seed list yearly. Guide book, 5 booklets, 1 volume of Proceedings, 2 monographs.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Pamir Botanical Garden of the Tadjik Academy of Sciences. Khorog, Tadjik SSR. Founded in 1940.

Ownership and affiliation: Academy of Sciences of the Tadjik SSR.

Longitude: 71°30' E. Latitude: 37°30' N. Altitude: 2320 m.

Mean annual rainfall: 250 mm. Annual temperature range: 9,3°C.

Area: 95 hect.

Number of species and varieties grown: 1150.

Time of greatest floral display: July, August.

Collections of special interest: plants of the Central Asia.

Chief objectives of the institutions: investigation of plants under mountain and Alpine conditions.

Name of the Director, with title and special fields of interest:

A.V. Gursky, doctor of biology, prof.

Other staff members, with titles and special fields of interest:

L.F. Sidorov - geobotany. M.L. Zaprzyagsev - introduction.

L.F. Ostapovich - influence of ultraviolet light.

Herbarium: wild species - 850 specimens, cultivated plants - 500 specimens.

Library: 5000 volumes.

Greenhouses: no.

Departments: introduction, physiology and photoreactivation, geobotany.

Open to public display: daily.

Publications: seed list (1960), Proceedings of the Tadjik Academy of Sciences.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Arboretum of the Sochy scientific experimental Station of subtropical forest and forest-parks economy. Sochy, Kurortny avenue 74. Founded in 1891.

Ownership and affiliation: Lenin All-Union Academy of agricultural Sciences.

Longitude: $39^{\circ}43'$ E. Latitude: $43^{\circ}35'$ N. Altitude: 6 - 75 m.

Mean annual rainfall: 1410 mm. Annual temperature range: 14°C .

Area: 60 hect.

Number of species and varieties grown: more than 1600.

Time of greatest floral display: May - June,

Collections of special interest: collection of subtropical trees and bushes in the open ground - 800 species, collection of the greenhouse - 390 species, collection of the Caucasus flora - 410 species.

Chief objectives of the institutions: scientific investigations in forestry, introduction, selection, seed-growing, forest protection, building of parks and forest-parks mechanization of forestry in mountain conditions.

Name of the Director, with title and special fields of interest:

I.I. Hanbekov, candidate of agriculture, senior scientific worker, mountain forestry and soil erosion.

Other staff members, with titles and special fields of interest:

A.L. Korkeshko, candidate of agriculture, deputy senior scientific worker, dendrology.

D.A. Globa = Michailenko, candidate of agriculture, senior scientific worker, selection of arboreal races on the Black Sea coast.

I.P. Koval, senior scientific worker, mountain forestry.

M.P. Popova, candidate of agriculture, senior scientific worker,
soil science.

T.D. Garshins, deputy senior scientific worker, phytopathology.

F.I. Sergeenkov, candidate of agriculture, senior scientific
worker, forestry.

O.T. Istratova, deputy senior scientific worker, forest seed-
growing and nurseries.

B.V. Leschenko, deputy senior scientific worker, flower culture.

V.S. Podgorichani, deputy senior scientific worker, mechaniza-
tion.

P.S. Novak, deputy senior scientific worker, forestry.

Herbarium: 1440 specimens.

Library: 10 600 volumes.

Greenhouses: display - no, service - 1300 m².

Departments: subtropical forestry, park and forest-park, selection
and introduction, model-experimental park, experiment green-
house.

Laboratory: soil.

Open to public display: dendrarium is daily open to public display
from 8 to 20.

Publications: seed lists, guide-book "Sochi dendrarium" (1960);
there are published five descriptive booklets (subtropical
forestry, forest protection).

Monography: V.M. Borovikov and A.L. Korkeshko "Trees and
bushes of Sochi dendrarium". Proceedings: 2 volumes (v.1 -
1939; v.2 - 1963).

QUESTIONNAIRE**International Association of Botanic Gardens**

Name and complete address: The State Nikits Botanical Garden of the All-Union Lenin Academy of Agricultural Sciences. Yalta, Crimea. Founded in 1812.

Ownership and affiliation: All Union Lenin Academy of Agricultural Sciences.

Longitude: 34°10' E. **Latitude:** 44°50' N. **Altitude:** 0 - 200 m.

Mean annual rainfall: 555 mm. **Annual temperature range:** 12,4°C.

Area: 917 hect. including: 1) the central part of the Garden near Yalta - 229 hect., 2) the steppe department at the Gvardeyskoye village of Simferopol district - 480 hect. and 3) the south-coastal section "Primerskoye" - 208 hect.

Number of species and varieties grown: trees and shrubs - 1400 sp., flowers - 1000 sp., subtropicals - 68 sp., technical crops - 41 sp.

Time of greatest floral display: the last decade of May - the first decade of June.

Collections of special interest: stone fruits - above 2000 var., fig - 190 var., pomegranate - 126 var., almond - 308 var., olive tree - 75 var., rose - 1600 var., chrysanthemum - 200 var., lavender - 264 forms, lavandine - 57 forms, rosemary - 47 forms.

Chief objectives of the institution: Introduction, breeding work and biological study, all having as objects the ornamental trees and shrubs, flowering plants, southern and subtropical fruit trees, and technical crops (essential oil and resin bearing), including researches on soils and climate, control of pests and diseases in fruit and ornamental plants, and the toxicological, physiological, biochemical, cytological and

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embryological investigations.**Name of the Director, with title and special fields of interest:**

M.A. Kochkin, Dr. of Agric. Sc., Prof., Chief of Department of pedologo-climatic researches, pedologist.

Other staff members with titles and special fields of interest:

N.V. Ryndin, Assistant Director (in scientific line), Candidate of Agric. Sc., breeder in subtropical cultures.

V.F. Koltsov, Secretary, Cand. of Agric. Sc., specialist in melioration in agriculture and forestry.

N.I. Subtsov, Chief of the Flora and Vegetation Department, Dr. of Biological Sc., Prof., geobotanist.

A.M. Kormilitsyn, Chief of the Dendrology and Ornamental Horticulture Department, Cand. of Agric. Sc., Dendrologist.

I.A. Zabelin, Chief of the Floriculture Depart., Cand. of Biolog. Sc., floriculturist.

I.N. Rysbow, Chief of the Southern Fruit Cultures Depart., Cand. of Biolog. Sc., breeder-fruit-grower.

A.A. Rikhter, Chief of the Subtropical Fruit Cultures Depart., Cand. of Agric. Sc., breeder in subtropical cultures.

I.Z. Livshits, Chief of the Entomology and Phytopathology Depart., Cand. of Agric. Sc., entomologist.

T.V. Frolov, Chief of the Technical Crops Depart., Cand. of Agric. Sc., breeder in techn. crops.

S.I. Elmanov, Chief of the Cytology and Embryology Laboratory, Cand. of Biolog. Sc., genetist.

A.S. Koverga, Chief of the Physiology Laboratory, Cand. of Biolog. Sc., Biochemist.

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G.I. Nilov, Chief of the Biochemistry Laboratory.

A.F. Zhanov, Assistant Director (in production line), breeder in subtropical cultures.

Herbarium of Cultivated Plants: 4100 specimens.

Herbarium of wild floras: of the Crimea - 80 759 specimens,

of the Caucasus - 7276 "

general 26 406 "

Library (scientific): 100 000 vol.

Greenhouses (for ornamental, flowering and essential oil plants):

display - 2, service - 15.

Laboratories: of Physiology of plants, of Biochemistry of plants,

of Cytology and Embryology, of Toxicology, of Pedology, of

Radiobiology (is being created).

Open to public display: every day from 8 up to 19.

Publications: Seed lists (Delectus seminum) being issued periodically. Descriptive booklet: Guide-booklets and ones about cultures being studied by the Garden and protection of plants against pests and diseases.

Periodicals: Works of the State Nikits Botanical Garden; Bulletins (discontinued).

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Kazakh State University. Alma-Ata, Kirov street 136. Founded in 1939.

Ownership and affiliation: Ministry of high and secondary schools of the Kazakh SSR.

Longitude: $76^{\circ}56'$ E. Latitude: $43^{\circ}14'$ N. Altitude: 820 m.

Mean annual rainfall: 577 mm. Annual temperature range: $7,3^{\circ}\text{C}$.

Area: 1,5 hect.

Number of species and varieties grown: 500.

Time of greatest floral display: May - August.

Collections of special interest: Rosarium, bulb plants.

Chief objectives of the institutions: teaching and educational basis for work of students of the University.

Name of the Director: L.S.Lohmanuk, botanist.

Other staff members with titles and special fields of interest:

E.P.Mihailova, plant physiology.

Herbarium of cultivated plants: no.

Library: no.

Greenhouses: display - no, services - 2.

Departments: tropical plants and succulents.

Open to public display - no.

Publications: seed lists - no, descriptive booklet - no, periodicals - no.

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Vilnius State University. Vilnius, Churlionio 110. Founded in 1945.

Ownership and affiliation: the Vilnius State University.

Longitude: 25°17' E. Latitude: 54°38' N. Altitude: 86 m.

Mean annual rainfall: 605 mm. Annual temperature range: 6,2°C.

Area: 6 hect.

Number of species and varieties grown: 3485.

Time of greatest floral display: May, August.

Collections of special interest: systematic collections, medicinal, technical, vegetable plants.

Chief objectives of the institutions: educational-auxiliary and scientific-research.

Name of the Director, with title and special fields of interest:
A.P. Luchinskene; decorative plants and alpinarium.

Other staff members, with titles and special fields of interest:
I.P. Stumbrene; dendrological collections. B.A. Sablauskene; systematicum and medicinal plants. E.N. Marosite; greenhouse crops.

Herbarium: no.

Library: 250 volumes.

Greenhouses: display - 1 (450 species), service - 1 (350 species)

Departments: no.

Open to public display: greenhouses are open to public display every day from 9 till 17.

Publications: seed list is published (1450 species).

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Vitebsk Medical Institute. Vitebsk, Frunze avenue 7. Founded in 1960.

Ownership and affiliation: Ministry of Public Health of USSR.

Longitude: 30° 03' E. **Latitude:** 55° 10' N. **Altitude:** 200 m.

Mean annual rainfall: 625 mm. **Annual temperature range:** 4,5°C.

Area: 20 hect.

Number of species and varieties grown: ^{about} 1000.

Time of greatest floral display: no.

Collections of special interest: collection of medicinal plants.

Systematic collection nursery(according to Engler's system).

Chief objectives of the institutions: investigation of medicinal plants, exposition of medicinal plants.

Name of the Director, with title and special fields of interest:

I.I. Bogdanovich, reader. Director of the Institute.

Other staff members, with titles and special fields of interest:

G.N. Kadsev, assistant of the pharmacognosy chair. G.N. Ismailov, chief of the garden, agronomist.

Herbarium: about 1000 lists.

Library: small botanical library.

Greenhouses: display - no, service - 1.

Departments: no.

Open to public display: no.

Publications: no.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Prof. B.M. Kosopolensky Botanical Garden
of the Voronezh State University. Voronezh 12. Founded in 1937.

Ownership and affiliation: Ministry of High and Secondary Special
Education of Russian Soviet Federative Socialist Republic.

Longitude: 39°10' E. **Latitude:** 51°42' N. **Altitude:** 140 m.

Mean annual rainfall: 511 mm. **Annual temperature range:** 5°C.

Area: 72 hect.

Number of species and varieties grown: 4065.

Time of greatest floral display: May 15 - September 30.

Collections of special interest: no.

Chief objectives of the institutions: introduction and acclimatization of new useful plants of the Central-Chernozem zone. Base for the students of the biological faculty of the University.

Name of the Director, with title and special fields of interest:
A.N. Kireichev, forester-ameliorator.

Other staff members, with titles and special fields of interest:
M.A. Presnyskova, senior scientist, botanist-florist. S.I. Petrovich, senior scientist, botanist; agricultural crops. L.P. Tokurovs, senior scientist; flower growing. N.N. Tulnovs, senior scientist; dendrology. V.V. Verzhinins, senior scientist; biochemistry.

Herbarium: wild species - 500 specimens, cultivated plants - 950 specimens.

Library: 620 volumes.

Greenhouses: no.

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Departments: flors and vegetation of the Central-Chernozem zone,
grassy decorative flowers, dendrological with the fruit-berry
section.

**Biochemistry laboratory, seed laboratory with herberium and seed
collection.**

Open to public display: daily, during working day.

Publications: seed list yearly.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Byelorussian Agricultural Academy. Gorki, Mogilev Region, Byelorussian SSR.
Founded in 1844.

Ownership and affiliation: Ministry of Agriculture of the Byelorussian Soviet Socialist Republic.

Longitude: 30°59' E. **Latitude:** 54°18' N. **Altitude:** 200 m.

Mean annual rainfall: 590 mm. **Annual temperature range:** 4,8°C.

Area: 16 hect.

Number of species and varieties grown: 1200.

Time of greatest floral display: July - August.

Collections of special interest: dahlias - 600 sorts, gladioli - 350 sorts, tulips - 75 sorts.

Chief objectives of the institutions: base of the botanical chair.
Popularization of botanical knowledge. Enrichment of vegetative resources.

Name of the Director, with title and special fields of interest:
R.T. Rybakov - reader, candidate of biology; taxonomy and geobotany.

Other staff members with titles and special fields of interest:
D.R. Novikov - dendrology, decorative gardening.

Herbarium: wild species - 400, cultivated species - 500.

Library - together with the Academy.

Greenhouses: hothouse for exotic plants.

Laboratories: no.

Open to public display: daily excursions.

Publications: seed list yearly. Papers appear in the Proceedings of the Botanical Society.

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of Gorky State University. Gorky 62. Founded in 1934.

Ownership and affiliation: Ministry of Higher Education of the Russian Soviet Federative Socialist Republic.

Longitude: 43°49'E. **Latitude:** 56°13'N. **Altitude:** 182 m.

Mean annual rainfall: 548 mm. **Annual temperature range:** 2,9°C.

Area: 70 hect.

Number of species and varieties grown: 2272.

Time of the greatest floral display: July, August.

Collections of special interest: Coniferae - 99 species, Crataegus - 50 species, Centaurea - 50 species, Gladiolus - 300 sorts, Dahlia - 139 sorts, Fragaria - 62 sorts, Rubus - 50 sorts.

Chief objectives of the institution: acclimatization and introduction of plants. Scientific basis for study of botanical branches in University and other educational institutions of the town. Popularization of botanical knowledge among people.

Name of the Director, with title and special fields of interest:
S.I.Zavlyenkov.

Other staff members with titles and special fields of interest:
N.P.Zernov, scientific gardener, breeding of fruit and berry crops; N.I.Nasonova, junior research worker, plant systematic; F.V.Nasonova, junior research worker, dendrole-

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gy; S.E. Antonova, junior research worker, breeding of Gladioli; A.P. Ilarionova, junior research worker, plant growing; B.V. Loshchinin, junior research worker, fruit growing. Herbarium of wild plants - together with the University, cultivated plants - 650 specimens.

Library: 3100 volumes.

Greenhouses: display - no, service - 2.

Departments: systematic, dendrology, decorative flower, fruit and berry crops, useful crops.

Open to public display: from July till September daily from 7 till 15. In winter greenhouses are open for students only.

Publications: Seed list is published yearly /about 1000 names/.

Articles are published in the Proceedings of Gorky State University. There are 12 monographs.

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QUESTIONNAIRE

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International Association of Botanic Gardens

Name and complete address: Agrobotanical garden of the Gorky agricultural Institute. Gorky 9, Teaching and Experimental Farm "Shcherbinki". Founded in 1960.

Ownership and affiliation: the Gorky Agricultural Institute.

Longitude: 43°49'E. **Latitude:** 56°13'N. **Altitude:** 184,5 m.

Mean annual rainfall: 548 mm. **Annual temperature range:** 2,9° C.

Area: 10 hect.

Number of species and varieties grown: 700.

Time of greatest floral display: July, August.

Collections of special interest: Populus - 56 species and hybrids, stone fruit plants - 87 species.

Chief objectives of the institutions: educational base for training of students of plant-growing chairs of the agricultural Institute.

Name of the Director, with title and special fields of interest:

I.P. Eliseev, agriculturist; selection and strain testing of stone fruit plants and poplar.

Other staff members, with titles and special fields of interest:

the staff of workers of corresponding plant-growing chairs.

Herbarium: no.

Library: attached to the Agricultural Institute.

Greenhouses: no.

Departments: no.

Open to public display: no.

Publications: no.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Dniepropetrovsk Botanical Garden of the State University. Dniepropetrovsk 10. Founded in 1930.

Ownership and affiliation: Ministry of high et secondary special education of the Ukrainian Soviet Socialist Republic.

Longitude: 35°05' E. Latitude: 48°22' N. Altitude: 200 m.

Mean annual rainfall: 472 mm. Annual temperature range: 8,4°C.

Area: 65 hect.

Number of species and varieties grown: 2600.

Time of greatest floral display: May - September.

Collections of special interest: decorative shrubs, gladioli, chrysanthemums.

Chief objectives of the institutions: construction of the botanic garden in the steppe Zone of the Ukraine.

Name of the Director, with title and special fields of interest: A.M. Levitskaya, candidate of biology, reader; dendrology.

Other staff members, with titles and special fields of interest: E.L. Bro, candidate of biology, reader; plant physiology. Z.I. Nevesenko, chief of the Exchange Division; introduction of climbing plants. V.M. Babkina, flower growing. Z.I. Geveva, chief of the dendrological department, dendrology.

Herbarium: wild species - 300, cultivated plants - 2000 specimens.

Library: 5556 volumes.

Greenhouses: display - 300 m², service - 450 m².

Departments: dendrology, useful plants, flower growing, and selection

Open to public display: greenhouse is opened daily from 9 to 18.

Publications: seed list yearly.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Tadjik State University. Dushanbe, Lenin street 17. Founded in 1958.

Ownership and affiliation: Tadjik State University.

Longitude: 68°47' E. **Latitude:** 38°35' N. **Altitude:** 846 m.

Mean annual rainfall: 620 mm. **Annual temperature range:** 16°C.

Area: 40 hect.

Number of species and varieties grown: 355 species and 852 varieties

Time of greatest floral display: spring.

Collections of special interest: fig - 28 sorts, almond - 32 sorts, pomegranate - 44, dateplum - 42, apricot, apple, mulberry trees - 23 sorts.

Chief objectives of the institutions: base for the students and scientific investigations of the teachers of the University.

Name of the Director, with title and special fields of interest:

B.I. Ismailov, agronomist; grape, technical and melon crops.

Other staff members, with titles and special fields of interest:

A.G. Kutsenko, agronomist; decorative and food cultures.

Herbarium: wild species - 200 specimens, cultivated plants -

250 specimens.

Library: no.

Greenhouses: no.

Departments: no.

Open to public display: daily from 8 up to 13.

Publications: no.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Zhitomir Agricultural Institute. Zhitomir, Stalin street 9. Founded in 1933.

Ownership and affiliation: Ministry of Agriculture of the Ukrainian SSR.

Longitude: 28°38' E. Latitude: 50°16' N. Altitude: 227 m.

Mean annual rainfall: 557 mm. Annual temperature range: 6,8°C.

Area: 7,31 hect.

Number of species and varieties grown: 650.

Time of greatest floral display: June - July.

Collections of special interest: no.

Chief objectives of the institutions: teaching and auxiliary base of the Institute. Investigation of native flora. Introduction.

Name of the Director, with title and special fields of interest:
A.L. Bersnovsky, candidate of agriculture, plant physiology, introduction.

Other staff members, with titles and special fields of interest:
P.I. Gupalo, candidate of biology, age changes of plants.
P.S. Remenchuk, candidate of biology, assistant, biochemistry of plants.

Herbarium: wild species - 600 specimens, cultivated plants - 250 specimens.

Library: 1200 volumes of the botanical books.

Greenhouses: no.

Departments of cultivated flora, department of collectional planting, dendrarium,

Laboratory of physiology and biochemistry.

Open to public display: visits to the garden are allowed on preliminary application.

Publications(seed list, guide-book, booklets, periodicals, monographs): Seed list is published from time to time. Papers appear in the periodicals.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Irkutsk State

University. Irkutsk, Vuzovskaya quay 20. Founded in 1939.

Ownership and affiliation: Ministry of higher and secondary education.

Longitude: 104°21' E. **Latitude:** 52°16' N. **Altitude:** 454 m.

Mean annual rainfall: 377,6 mm. **Annual temperature range:** -1° -3°C.

Area: 30 hect.

Number of species and varieties grown: 928.

Time of greatest floral display: August.

Collections of special interest: medicinal and technical crops.

Chief objectives of the institutions: introduction of trees and shrubs. Greening with the decorative plants. Base for students' practice.

Name of the Director: I. I. Serkin. Introduction of trees and shrubs and vegetative propagation of the coniferous.

Other staff members with titles and special fields of interest: the staff of the Botanical Chair of the University.

Herbarium: wild species - on the botanic chair of the University.
cultivated plants - no.

Library: 475 volumes.

Greenhouses: 2 hothouses - 270 m².

Departments: dendrarium - 7 hect.

Open to public display: the garden is closed for the public.

Publications: seed list (296 species). Guide book is prepared. Periodicals - no.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Kiev State University. Kiev, Komintern street 1. Founded in 1838.

Ownership and affiliation: Ministry of high and secondary education of the Ukrainian Soviet Socialist Republic.

Longitude: 30°33' E. **Latitude:** 50°24' N. **Altitude:** 183 m.

Mean annual rainfall: 622 mm. **Annual temperature range:** 7°C.

Area: 22,5 hect.

Number of species and varieties grown: 600.

Time of greatest floral display: May - August.

Collections of special interest: dendrarium, rose-garden, palm-garden, cactus-garden.

Chief objectives of the institutions: acclimatization and trials of new plants, studying of frost-resistance, popularization of botanical knowledges. Scientific ^{fic} Base of the botanical chairs of the University.

Name of the Director: I.P. Belokon, candidate of biological sciences, reader, investigation of vegetative tissues.

Other staff members with titles and special fields of interest:

A.L. Iype, doctor of biological sciences, professor; acclimatization, dendrology.

V.U. Dirdevski, senior scientific worker; biology of plants of protected ground.

T.V. Lapins, senior scientific worker; frost-resistance of fruit crops.

G.P. Boiko, senior scientific worker; selection and agrotechnics of bulbs.

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K.I. Bogomov, senior scientific worker, plastids.

**G.S. Markevich, senior scientific worker, phytopathology and
plant protection.**

Herbarium: no. together with the chair of botany.

Library: 20 000 volumes.

Greenhouses: display $\sqrt[1]{}$ (250 m²), service $\sqrt[1]{}$ (950 m²).

**Departments of dendrology, physiology of plants, selection of grassy
ornamental plants, geobotany, laboratory of plant-protection.**

**Open to public display: dendrarium, botanical system, greenhouse,
rose-garden and a plot of flower-ornamental plants.**

Publications: seed lists, guide-book, works of botanical garden.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Kirov Pedagogical Institute. Kirov (regional), K. Marx street 95. Founded in 1913.

Ownership and affiliation: Ministry of Education of the Russian Soviet Federative Socialist Republic.

Longitude: $49^{\circ}37'$ E. Latitude: $58^{\circ}39'$ N. Altitude: 171 m.

Mean annual rainfall: 535 mm. Annual temperature range: $1,6^{\circ}\text{C}$.

Area: 3,2 hect.

Number of species and varieties grown: 523.

Time of greatest floral display: from 20 th of May till 20 th of June, and September.

Collection of special interest: dendrological collection, collection of bulbs.

Chief objectives of the institution: teaching and instructive.

Name of the Director: F.A. Alexandrov, candidate of biology, reader, hardiness of fruit-berry crops and flora of Kirovskiy region.

Other staff members with titles and special fields of interest:

I.K. Onchurov, horticulture.

Herbarium (together with chair of botany): wild plants - 2537 specimens, cultivated plants - 214 specimens.

Library (together with chair of botany): 1378 volumes.

Greenhouses: display - 1, service - 1.

Departments: dendrology, flower-ornamental, fruit-berry, medicinal.

Open to public display: daily from 12 till 19.

Publications: seed list is annually being published.

QUESTIONNAIRE

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International Association of Botanic Gardens.

Name and complete address: Kremenets Botanical Garden. Kremenets, Ternopol region, Krupskaya street 1. Founded in 1805.

Ownership and affiliation: Kremenets Pedagogical Institute of the Ministry of education of the Ukrainian SSR.

Altitude: 340 m.

Mean annual rainfall: 706 mm. **annual temperature range:** 7°C.

Area: 12 hect.

Number of species and varieties grown: 760.

Time of greatest floral display: June.

Collections of special interest: no.

Chief objectives of the institutions: popularization of botanical knowledge.

Name of the Director, with title and special fields of interest:

A.M. Krevchenko, candidate of agriculture, reader; breeding of apple trees.

Other staff members, with titles and special fields of interest:

N.S. Krivoshey; botany. N.N. Novatskaya, candidate of biology; plant physiology. V.K. Nikon; plant growing.

Herbarium: wild species - 760 specimens, cultivated plants - 90 specimens.

Library: no.

Greenhouses: display - 1, service - no.

Departments: greenhouse, park, fruit nursery and garden, agrobiostation.

Open to public display: daily, from 9 up to 16.

Publications: papers are published in the Scientific Papers of the Kremenets Pedagogical Institute.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of Leningrad State University. Leningrad V-164, Universitetskaya quay 7-9. Founded in 1864-68.

Ownership and affiliation: Ministry of high and secondary special education of the Russian Soviet Federative Socialist Republic.

Longitude: 30°18' E. Latitude: 59°58' N. Altitude: 6 m.

Mean annual rainfall: 565 mm. Annual temperature range: 4,2°C.

Area: 2,5 hect.

Number of species and varieties grown: 3500 (in the open ground), 1600 (in the greenhouse).

Time of greatest floral display: August.

Collections of special interest: flower decorative plants, medicinal, systematic.

Chief objectives of the institutions: help to the chairs of the University, scientific-research work in morphology, taxonomy, biology of development and seed production.

Name of the Director: D.M. Zalessky, senior botanist; tropical and subtropical plants, taxonomy, morphology and biology of development.

Other staff members with titles and special fields of interest:

L.D. Shmatok, botanist; decorative flowers and seed production.

K.V. Gernovsky, botanist; taxonomy, morphology and biology of development of wild grasses of native flora.

Herbarium: wild species - no, cultivated species only (is being created).

Library (reference): 300 volumes.

Greenhouses: display - no, service - 1 (5 sections)

Department

For the students and

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schoolchildren.

**Publications: seed list, monograph "Plants of the botanical garden",
(in 2 parts).**

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Arboretum of the S.M. Kirov Forest Academy. Leningrad K-18, Institutsky Lane 5. Founded in 1833.

Ownership and affiliation: S.M. Kirov Leningrad Forest Academy.

Longitude: 30°18' E. Latitude: 59°58' N. Altitude: 30 m.

Mean annual rainfall: 565 mm. Annual temperature range: 3,8°C.

Area: 11 hect.

Number of species and varieties grown: 1000.

Time of greatest floral display: no.

Collections of special interest: Acer, Betula, Populus, Ulmus, Sorbus.

Chief objectives of the institutions: dendrological base for the students of the Academy. Acclimatization of trees for their introduction in the forests of the North.

Name of the Director; with title and special fields of interest:

N.M. Andronov, reader, acclimatization of trees.

Other staff members, with titles and special fields of interest: no.

Herbarium: wild species - 50 specimens, cultivated plants - 2000 specimens.

Library: 750 000 volumes, together with the Forest Academy.

Greenhouses: display for studies.

Departments and Laboratories: no.

Open to public display: dendrological garden is opened only for the excursions.

Publications: seed list; a descriptive booklet is prepared.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: The Botanical Garden of the Lvov State University. The Botanical Garden is situated in two places of Lvov: Marc Cherezhina street 44, and Lomonosov street 4. Founded in 1851.

Ownership and affiliation: Ministry of Higher and Secondary Education of the Ukrainian Soviet Socialist Republic.

Longitude: 25°57' E. Latitude: 49°49' N. Altitude: 305 - 375 m.

Mean annual rainfall: 620 mm. Annual temperature range: 7,3°C.

Area 74,5 hect.

Number of species and varieties grown: 1754.

Time of greatest floral display: August.

Collection of special interest: tulips, dahlias, gladiolus, hyacinths, lilies, peonies, roses, some native sorts of apple-trees and grape.

Chief objectives of the institution: scientific-research, cultural and educational activity.

Name of the Director, with title and special fields of interest: R.I.Torsky.

Other staff members with titles and special fields of interest: R.K. Pankiv, candidate of biology, fruit-growing; V.N. Dudnik, plant physiology.

Herbarium of wild plants: 89 families, herbarium of cultivated plants - no.

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Greenhouses: display - no, service - 1.

Departments and laboratories: department of plant introduction
and department of plant physiology with a laboratory.

Open to public display: on Tuesdays and Fridays.

Publications: Seed list /about 1500 species/ is published yearly. The Guide book of the old part of the Garden is published. There are two booklets. The collection of scientific
the
works is in print.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Arboretum of the Lvov Forest Institute.

Lvov, Puschkin street 103. Founded in 1890.

Ownership and affiliation: Ministry of high and secondary special education of the Ukrainian SSR.

Longitude: 23°57' E. Latitude: 49°49' N. Altitude: 300 m.

Mean annual rainfall: 620 mm. Annual temperature range: 7,3°C.

Area: 6 hect.

Number of species and varieties grown: 318.

Time of greatest floral display: no.

Collections of special interest: no.

Chief objectives of the institutions: base for the students on dendrology and forest selection.

Name of the Director, with title and special fields of interest:

T.M. Brodovich, candidate of agriculture, reader.

Other staff members, with titles and special fields of interest:

N.F. Prikladovskaya, assistant; introduction and acclimatization of quickly growing valuable exotics in the forest.

Herbarium: wild species - 70 specimens, cultivated trees and shrubs - 495 specimens.

Library: together with the Lvov Forest Institute.

Greenhouses: only for studies.

Departments: no.

Open to public display: daily from 10 up to 16.

Publications: seed list.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Byelorussian State University. Minsk. Founded in 1933.

Ownership and affiliation: the Byelorussian State University.

Longitude: 27°32' E. **Latitude:** 53°52' N. **Altitude:** 210 m.

Mean annual rainfall: 622 mm. **Annual temperature range:** 5,3°C.

Area: 2,5 hect.

Number of species and varieties grown: 1 500.

Time of greatest floral display: June - July.

Collections of special interest - no.

Chief objectives of the institutions: teaching - auxiliary.

Name of the Director: A.K. Efrenkins.

Other staff members with titles and special fields of interest:
the staff of the chair of the systematization of plants of the University.

Herbarium: there is herbarium at the chair of the systematization of plants.

Library: no.

Greenhouses: there is greenhouse at the chair of the systematization of plants.

Departments and laboratories: no.

Open to public display - no.

Publications: seed list is being published annually.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Moscow Lomonosov State University. Moscow V-234, Lenin Hills. The old branch of the garden - Moscow I-10, Mir avenue 26. Founded in 1950, branch in 1706.

Ownership and affiliation: the Moscow Lomonosov State University.

Longitude: $37^{\circ}34'$ E. Latitude: $55^{\circ}45'$ N. Altitude: 192 m.

Mean annual rainfall: 587 mm. Annual temperature range: $3,6^{\circ}$ C.

Area: of the main garden - 40 hect., branch of the garden - 6 hect.

Number of species and varieties grown: 9000.

Time of greatest floral display: mid of May till September.

Collections of special interest: trees and shrubs - 1970 species, mountain flora - 1400 species, steppe flora - 300 species, useful plants - 560 species, systematic collection - 1000 species, decorative plants - 1200 species and sorts, fruits and berries - 600 sorts, hothouse plants - 2000 species.

Chief objectives of the institutions: theoretical bases of the acclimatization of plants. Theory and practice of greening.

Introduction and selection of decorative crops, selection and genetics of fruits and berries.

Name of the Director, with title and special fields of interest:

N.A. Bezilevskaya, doctor of biology, prof.; acclimatization of plants, decorative gardening.

Other staff members, with titles and special fields of interest:

6 senior botanists, candidates of biology and agriculture; geobotany, genetics, agronomy, fruit growing, phytopathology and decorative gardening.

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Herbarium: a large herbarium is on the chair of geobotany of the University.

Library: 20 000 volumes.

Greenhouses: display - 1700 m², service - 150 m².

Departments: dendrarium, systematization and flora, useful plants, decorative plants, fruit-berry crops; agrobiology and seed laborstories.

Open to public display: the Botanical garden itself is open only for students and workers of the University and for excursions. The park and greenhouses of the branch of the Botanical garden (Mir avenue 26) is open to public display from 9 up till 20 except - Mondays.

Publications: seed list, guide-book, booklets and separate books.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden and Schreder's Dendrerium of the Moscow Timirjazev Agricultural Academy. Moscow A-8, Prjenishnikov street. Botanical garden is founded in 1896, Dendrerium - in 1863.

Ownership and affiliation: Moscow Timirjazev Agricultural Academy.

Longitude: 37°34' E. **Latitude:** 55°45' N. **Altitude:** 170 m.

Mean annual rainfall: 587 mm. **Annual temperature range:** 3,8°C.

Area: botanic garden - 2,1 hect., dendrerium - 15 hect.

Number of species and varieties grown: botanic garden - 1000, dendrerium - 420.

Time of greatest floral display: May - August.

Collections of special interest: there is a systematic collection in the open ground and greenhouses of the botanical garden; the dendrerium contains species of Crataegus, Euonymus, Quercus, Salix, Amelanchier, Acer, Rose, Spiraea, Cornus, Syringa, Philadelphus.

Chief objectives of the institutions: scientific investigations in morphogenesis, phylogenetic taxonomy and introduction.

Name of the Director, with title and special fields of interest: V.G. Khrzhanovsky, doctor of biology, prof.; taxonomy and flora of Angiospermae, rhodology.

Other staff members, with titles and special fields of interest: I.P. Ignatjeva, candidate of agriculture, senior scientist; investigation of life duration of grassy polycarps. E.S. Smirnov, senior scientist; special investigations in morphogenesis of the seeds of Angiospermae.

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Herbarium: wild species - 1200 specimens, cultivated plants -
600 specimens.

Library: more than 2000 volumes.

Greenhouses: display - 100 m², about 300 species, service - no.

Departments: no.

Open to public display: daily from 9 up to 16.

Publicstions: Seed list yearly.

S.D. Georgievsky. Guide-book of the R.I. Schreder Dendrologi-
cal Garden. 1935.

N.A. Blucket. Guide-book of the Botanic Garden. 1948.

V.G. Khrzhanovsky "Roses of the European part of the USSR,
Crimea and Caucasus"(their taxonomy, phylogeny and
geography), 1958.

Scientific papers of the botanic chair. Edited by prof. V.G.
Khrzhanovsky.

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QUESTIONNAIRE**International Association of Botanic Gardens**

Name and complete address: the Botanical Garden of Official plants of the First Moscow Medical Institute. Moscow D-100, 4. Kresnogvardeisky proezd 20. Founded in 1946.

Ownership and affiliation: Ministry of Public Health of the Russian Soviet Federative Socialist Republic.

Longitude: 37°34' E. **Latitude:** 55°45' N. **Altitude:** 167 m.

Mean annual rainfall: 587 mm. **Annual temperature range:** 3,8°C.

Area: 4,5 hect.

Number of species and varieties grown: 1100.

Time of greatest floral display: end of May - beginning of June.

Collections of special interest: pharmacopoeia medicinal plants.

Chief objectives of the institutions: students have their practice here on botany and pharmacognosy. Scientific investigations in the field of introduction, selection, anatomy and chemistry of medicinal plants.

Name of the Director, with title and special fields of interest:

V.I. Egorova, administrator, greening.

Other staff members, with titles and special fields of interest:

B.M. Griner, founder of the garden, at present - consultant; botany, introduction of plants.

V.M. Rodionova, agronomist, chief of the plot of the taxonomy of medicinal plants. Staff of the chairs: academician A.R. Zhebrak, prof., doctor of biology; genetics and selection of cultivated plants. A.I. Kuptsov, prof., doctor of agriculture; genetics and geography of cultivated plants. V.V. Sakharov, reader, candidate of biology; genetics and selection of plants.

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Herbarium: under creation.

Library: 350 volumes.

Greenhouses: display - 100 m², services - 180 m² (under construction).

Departments: introduction of medicinal plants, polyploidy and selection, taxonomy, dendrerium, decorative gardening.

Open to public display: closed for the public.

Publications: seed list, a descriptive booklet.

QUESTIONNAIRE

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International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Novosibirsk Agricultural Institute. Novosibirsk, Bobrolubov street 289. Founded in 1960.

Ownership and affiliation: Ministry of Agriculture of Russian Soviet Federative Socialist Republic.

Longitude: 82°54' E. **Latitude:** 55°02' N. **Altitude:** 132,6 m.

Mean annual rainfall: 459 mm. **Annual temperature range:** 0,6°C.

Area: 16 hect.

Number of species and varieties grown: 600.

Time of greatest floral display: June, the end of July and August.

Collections of special interest: fruit-berry plants.

Chief objectives of the institutions: breeding and testing of fruit-berry plants, investigation of decorative plants, trees and shrubs.

Name of the Director, with title and special fields of interest:
I.M. Leonov, doctor of agriculture, professor.

Other staff members, with titles and special fields of interest:
G.V. Kobzar, assistant; N.G. Zakharovs, assistant; V.S. Poverennov, assistant; D.P. Mikhailov, candidate of agriculture, reader.

Herbarium: wild species - 900 lists, cultivated plants - 200 lists.

Library: 150 000 volumes (at the Institute).

Greenhouses: no.

Departments: no.

Open to public display: the garden is under construction and closed to public display

Publications: no.

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QUESTIONNAIRE**International Association of Botanic Gardens**

Name and complete address: Botanical Garden of the Mechnikov State University. Odessa, Proletarsky boulevard, 48-50.
 Founded in 1867.

Ownership and affiliation: Ministry of Higher and Secondary education of the Ukrainian SSR.

Longitude: 30°38'E. **Latitude:** 46°29'N. **Altitude:** 42 m.

Mean annual rainfall: 391 mm. **Annual temperature range:** 9,3°C.

Area: 16 hect.

Number of species and varieties grown: 3 900

Time of greatest floral display: May, August.

Collections of special interest - no.

Chief objectives of the institutions: investigation and enrichment of flora and vegetation of the South = West part of Ukraine. Introduction and acclimatization of various groups of useful plants in the South of Ukraine.

Name of the Director: P.N. Reznik, forestry. A.Z. Zharenko - scientific chief of the garden, reader, candidate of biology (Chairman of the Council of the garden), botany, taxonomy, acclimatization of arboreous plants.

Other staff members with titles and special fields of interest:

R.B. Borovik - acclimatization of technical plants.

E.N. Kirkopulo, reader, hybridization and selection of fruit-trees.

Herbarium: wild species - 3 000 specimens, cultivated plants - 5 000 specimens.

Library: 8 000 volumes.

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2.

Greenhouses: display - 4, service - 3.

Departments of flora and vegetation, decorative floriculture; laboratory of south and subtropical fruit-trees, of new useful plants, of plant physiology and biochemistry, seed laboratory.

Open to public display: Wednesday, Friday from 8 to 16.

Publications: seed list on 1052 species, a guide book. Scientific papers appear at the Year book of the Odessa State University.

QUESTIONNAIRE

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International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Omsk Agricultural Institute. Omsk, Post office 8. Founded in 1927.

Ownership and affiliation: the Omsk Agricultural Institute.

Longitude: 73°24' E. Latitude: 55°56' N. Altitude: 90 m.

Mean annual rainfall: 310 mm. Annual temperature range: 0,5°C.

Area: 1,5 hect.

Number of species and varieties grown: 800.

Time of greatest floral display: the end of June, July.

Collections of special interest: no.

Chief objectives of the institutions: introduction of useful species of flora of the West Siberia and Kazakhstan (mainly fodder crops and decorative flowers). Securing of educational needs of the chair of botany and other agrobiological chairs. Scientific-instructive activity.

Name of the Director, with title and special fields of interest: N.A. Plotnikov, candidate of biological sciences, reader. Investigation of vegetable of Omsk region. Introduction of wild useful plants of the West Siberia and Kazakhstan.

Other staff members, with titles and special fields of interest:

N.V. Fedorova, agriculturist; botany.

Herbarium: wild species - 40 000 lists, cultivated plants - no.

Library (together with Omsk agricultural Institute): 217 160 volumes.

Greenhouses: no.

Departments: cereals, leguminous plants, medicinal and technical plants, ornamental plants, trees and shrubs.

Open to public display: June, July, August - excursions.

Publications: seed list is annually being published. Separate articles are being published in scientific magazines.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Penza Botanical Garden of the Belinsky Pedagogical Institute. Penza, Carl Marx st. 4. Founded in 1917.

Ownership and affiliation: Ministry of Education of the Russian Soviet Federative Socialist Republic.

Longitude: 45°01' E. **Latitude:** 53°08' N. **Altitude:** 199-233 m.

Mean annual rainfall: 450 mm. **Annual temperature range:** 4,5°C.

Area: 7,2 hect.

Number of species and varieties grown: 1103.

Time of greatest floral display: July 20 - August 15.

Collections of special interest: medicinal, ether-oil plants, fibrous, fodder, melliferous, flower-decorative plants.

Chief objectives of the institutions: scientific investigations and educational-instructive objects.

Name of the Director: B.A. Yegodin, influence of microelements upon several physiological processes.

Other staff members with titles and special fields of interest:

V.S. Djetkova, senior research worker, dendrology.

A.S. Savins, laboratory assistant, chief of the collection-systematic plot.

Z.A. Polkanova - junior research worker, chief of the greenhouse.

D.I. Kirдынovs - senior research worker, entomology.

Herbarium: 4000 specimens.

Library: 1700 volumes.

Greenhouses: display - 1, service - no.

2.

Departments: dendrological plot, collection-systematic, greenhouse and laboratory of plant physiology.

Open to public display: daily except Sundays, from 8 to 15.30.

Publicstions: seed list, a guide-book is at the printers, also a monograph "Trees and shrubs of the Penza Botanical Garden".

Scientific papers.

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: A.G. Genkel Botanical Garden of the Perm
 State University. Perm 5, ^{Zaimka,} Genkel street 7. Founded in 1922.
 Ownership and affiliation: Ministry of high ^{and secondary special} education of the Russian
 Soviet Federative Socialist Republic.

Longitude: 56°18' E. Latitude: 58°01' N. Altitude: 95 m.

Mean annual rainfall: 467 mm. Annual temperature range: 1,3°C.

Area: 6 hect.

Number of species and varieties grown: 2750.

Time of greatest floral display: May - September.

Collections of special interest: agricultural ^{crops}, medicinal ^{plants} and deco-
 rative flowers.

Chief objectives of the institutions: introduction and acclimatiza-
 tion. Base for the students of the botanical chairs of the
 University and other Institutes of the city.

Name of the Director, with title and special fields of interest:
 N.M. Kolmogorova, geobotanist, flower cultivation.

Other staff members, with titles and special fields of interest:
 M.S. Kszekova, senior botanist, geobotanist, dendrology.

Herbarium: wild species - 982 lists, cultivated plants - 570 lists.

Library: 6256 volumes.

Greenhouses: display - 1, service - 1.

Laboratory of physiology and biochemistry of plants.

Open to public display: daily, from 9 up to 16.

Publications: seed list.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Petrozavodsk State University. Petrozavodsk, Solomennoje. Founded in 1950.

Ownership and affiliation: Ministry of high and secondary special education of the Russian Soviet Federative Socialist Republic.

Longitude: $34^{\circ}16'$ E. **Latitude:** $61^{\circ}49'$ N. **Altitude:** 87,5 m.

Mean annual rainfall: 565 mm. **Annual temperature range:** $2,4^{\circ}\text{C}$.

Area: 140 hect.

Number of species and varieties grown: 912.

Time of greatest floral display: August.

Collections of special interest: medicinal and rocky plants.

Chief objectives of the institutions: introduction and acclimatization of plants. Seed production.

Name of the Director; with title and special fields of interest:
P.V. Krupyshev, landscape engineer.

Other staff members, with titles and special fields of interest:
G.F. Degtyarev. I.M. Pelgonen. E.A. Ovchinnikova, candidate of biology, reader.

Herbarium: no.

Library: 1040 volumes.

Greenhouses: display - no, service - 240 m^2 .

Departments: decorative and valuable trees; decorative grasses, vegetables and medicinal plants.

Laboratory of phytopathology.

Open to public display: daily from 8 up to 16, Sundays from 9 up to 19.

Publications: seed list (161 species).

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of Agronomy-biological station of the Poltava Pedagogical Institute. Poltava, Ostrogradsky street 2. Founded in 1938.

Ownership and affiliation: Ministry of Education of the Ukrainian Soviet ~~Republic~~ Socialist Republic.

Longitude: 34°33' E. **Latitude:** 49°36' N. **Altitude:** 161 m.

Mean annual rainfall: 480 mm. **Annual temperature range:** 7,2°C.

Area: 5,25 hect.

Number of species and varieties grown: 432.

Time of greatest floral display: July.

Collections of special interest: collection of succulents.

Chief objectives of the institutions: a scientific base for practical of students.

Name of the Director, with title and special fields of interest:

P.E. Sosin, doctor of biological sciences; mycology.

Other staff members, with titles and special fields of interest:

D.V. Ganzha, senior teacher; mycology. L.A. Verhovod, senior teacher.

Herbarium: no.

Library is together with institute.

Greenhouses: display - 45 m², service - 35 m².

Departments: no.

Open to public display: daily from 13 to 17.

Publications: seed list is being published.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Pystigorsk Pharmacy Institute. Pystigorsk, Kirov avenue 33. Founded in 1949.

Ownership and affiliation: ministry of Public Health of the Russian Soviet Federative Socialist Republic.

Longitude: 43°02' E. **Latitude:** 44°03' N. **Altitude:** 540 m.

Mean annual rainfall: 472 mm. **Annual temperature range:** 8,6°C.

Area: 8,2 hect.

Number of species and varieties grown: 1000.

Time of greatest floral display: June - July.

Collections of special interest: medicinal and poisonous plants.

Chief objectives of the institutions: ^{scientific} base of the Pystigorsk pharmaceutical institute.

Name of the Director, with title and special fields of interest:
scientific chief - R.M. Venedin, cand. of biology, reader;
garden and medicinal plants.

Other staff members, with titles and special fields of interest:
F.N. Fedorov, agronomist; plant breeder.

Herbarium: wild species - 120 specimens, cultivated plants - 500 specimens.

Library: no.

Greenhouses: display - 100 m², service - no.

Departments: no.

Open to public display: for students and school-children.

Publications: seed list.

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Latvian State University. Riga 7, L. Kendevas street 2. Founded in 1922.

Ownership and affiliation: Latvian State University.

Longitude: 24°04' E. Latitude: 56°58' N. Altitude: 8 m.

Mean annual rainfall: 634 mm. Annual temperature range: 5,6°C.

Area: 16 hect.

Number of species and varieties grown: 7000.

Time of greatest floral display: June - September.

Collections of special interest: dendrarium - 293 species, 45 varieties, 120 garden forms; nursery - 234 names; systematic groups - 1097 names; biological and morphological groups - 1047 names; decorative plants - 2250 sorts; greenhouse plants - 2006 species.

Chief objectives of the institutions: scientific research in introduction and acclimatization of plants. Scientific-instructive work.

Name of the Director, with title and special fields of interest:

R.Y. Kondratovich, introduction and acclimatization of plants.

Other staff members, with titles and special fields of interest:

3 scientists, introduction and acclimatization of plants.

Herbarium: plants of Baltic Region - 20 000 lists.

Library: 3500 volumes.

Greenhouses: 600 m².

Departments: no.

Open to public display: daily, except Saturday and Monday.

June - September from 10 up to 20.

October - May from 8 up to 15.

Publications: yearly, descriptive book, guide book. Proceedings

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Rostov State University, Rostov Don, P.O. 2. Founded in 1927.

Ownership and affiliation: Ministry of high and secondary special education of the USSR.

Longitude: $39^{\circ}49'$ E. Latitude: $47^{\circ}15'$ N. Altitude: 5 - 75 m.

Mean annual rainfall: 475 mm. Annual temperature range: 8.4°C .

Area: 200 hect.

Number of species and varieties grown: 1200.

Time of greatest floral display: end of April - first half of May.

Collections of special interest: fruit-berries, nuts, medicinal plants.

Chief objectives of the institutions: scientific investigations in introduction. Base for the students of the University and other Institutes. Help to agriculture and greening. Introduction of new useful plants. Scientific = instructive work.

Name of the Director; with title and special fields of interest:

A.S. Zhernovoy, botanist; nuts.

Other staff members, with titles and special fields of interest:

A.P. Putilin, cand. of biology, botanist - taxonomist; fodder crops. A.Y. Ogorodnikov, senior botanist; introduction and selection of wild fruit and berries. E.I. Zhukovs, junior scientist, botanist; flowers. L.A. Bojko, junior scientist; physiology of plants, citrus plants.

Herbarium: wild species - 200 specimens, cultivated plants - 150 specimens.

Library: 3000 volumes.

QUESTIONNAIRE

MA

2.

Greenhouses: display - 150 species, service - 400 species.

Departments: dendrological, cultivated flora, decorative flowers,
tree nursery.

Laboratory of plant physiology, laboratory of selection.

Open to public display: daily, except Sunday, from 10 up to 15,

Saturday from 8 up to 13. Excursions: Monday, Wednesday,

Friday.

Publications: seed list. Descriptive booklet is being prepared.

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Samarkand State University. Samarkand, Gorky Boulevard 3. Founded in 1961.

Ownership and affiliation: Ministry of High Education of the Uzbek SSR.

Longitude: 66°57' E. Latitude: 39°34' N. Altitude: 726 m.

Mean annual rainfall: 329 mm. Annual temperature range: 13,4°C.

Area: 20 hect.

Number of species and varieties grown: 205.

Time of greatest floral display: May.

Collections of special interest: no.

Chief objectives of the institutions: introduction and acclimatization. Popularization of botanical knowledge.

Name of the Director, with title and special fields of interest:

E.I. Proskoryakov, doctor of biology, professor, chief of the chair of botany of the Samarkand State University.

Other staff members, with titles and special fields of interest:

D.T. Kabulov, candidate of biology, reader, head of the taxonomy chair.

Herbarium: wild species - 71 species, cultivated plants - 60 specimens.

Library: no.

Greenhouses: display - no, service - 52 species.

Departments and Laboratories: under construction: Middle Asia, European, Far East, Chinese, American flora departments. Laboratories are also under construction.

Open to public display - the garden is not opened.

Publications: no.

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Stavropol Pedagogical Institute. Stavropol-Caucasian, Pushkin street 1.

Founded in 1946.

Ownership and affiliation: Ministry of Education of Russian Soviet Federative Socialist Republic.

Longitude: 42°01' E. **Latitude:** 45°03' N. **Altitude:** 575 m.

Mean annual rainfall: 655 mm. **Annual temperature range:** 7,5°C.

Area: 0,7 hect.

Number of species and varieties grown: 737.

Time of greatest floral display: July, August.

Collections of special interest: agricultural plants of the North Caucasus.

Chief objectives of the institutions: base for the students of the Institute.

Name of the Director, with title and special fields of interest:

I.S. Efremov, cand. of biology, reader; plant physiology.

Other staff members, with titles and special fields of interest:

D.I. Kolpikev, cand. of biology, reader; ecology, geography and taxonomy.

Herbarium: wild species - 1275 lists, cultivated plants - 75 lists.

Library: 275 volumes.

Greenhouses display - 1, service - no.

Departments: taxonomy, experimental section.

**Laboratory of ecology and plant physiology, ~~collection nursery,~~
greenhouse,**

Open to public display: daily, from 7 up to 19.

Publications: seed list. Papers appear in the periodicals of the Academy of Sciences of the USSR and Proceedings of the Stavropol Pedagogical Institute.

MS

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Tartu State University, Estonian SSR. Tartu, Michurin street 40. Founded in 1803.

Ownership and affiliation: Tartu State University.

Longitude: 26°44' E. **Latitude:** 58°18' N. **Altitude:** 35 m.

Mean annual rainfall: 620 mm. **Annual temperature range:** 4,7°C.

Area: 3 hect.

Number of species and varieties grown: 5000.

Time of greatest floral display: June - August.

Collections of special interest: there are 11 departments in the garden.

Chief objectives of the institutions: training base of the chairs of taxonomy and geobotany. Popularization of botanical knowledge. Introduction of valuable plants.

Name of the Director, with title and special fields of interest:
H.H. Tress, candidate of biology, reader, geobotany, licheno-logy.

Other staff members, with titles and special fields of interest:
K.U. Eichwald, doctor of biology, professor of the chair of taxonomy and geobotany, floristic science, dendrology, geography of plants.

Herbarium together with the chair of taxonomy and geobotany of Tartu State University contains 19 000 papers.

Library (together with the library of the chair of taxonomy and geobotany of Tartu State University) : 5000 volumes.

Greenhouses: display - 5, service - no.

Departments: there are 11 departments in the garden.

Open to public display: daily from 9 to 17.

Publications: seed list yearly. Scientific papers in the periodicals.

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QUESTIONNAIRE**International Association of Botanic Gardens**

Name and complete address: Siberian Botanical Garden of the Tomsk State University. Tomsk, Lenin avenue 36. Founded in 1885.

Ownership and affiliation: Ministry of High Education of Russian Soviet Federative Socialist Republic.

Longitude: 84°58' E. **Latitude:** 56°26' N. **Altitude:** 122 m.

Mean annual rainfall: 548 mm. **Annual temperature range:** -0,6°C.

Area: 150 hect.

Number of species and varieties grown: 4500.

Time of greatest floral display: August.

Collections of special interest: plants of greenhouse, flower-decorative plants in open ground, decorative trees and bushes, collection of Siberian flora, fruit-berry crops.

Chief objectives of the institutions: acclimatization and introduction of useful plants. Scientific-instructive work.

Name of the Director, with title and special fields of interest: N.V. Prikledov, candidate of biology, senior scientist; physiology of seeds.

Other staff members, with titles and special fields of interest: S.V. Gudoshnikov, candidate of biology, senior scientist; decorative gardening, flora and vegetation of Siberia. A.D. Tygelnikov, senior scientist; pomology, selection of fruit trees.

Herbarium: there is P.N. Krylov herbarium attached to Tomsk University (340 000 lists).

Library: about 4000 volumes.

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2.

Greenhouses: displays - 2, services - 2. There are 970 species of tropical and subtropical plants.

Departments: flore, cultivated plants, plant protection; seed laborstory.

Open to public display: displays and expositions of open ground (flowers, park, system of plants and fruit park) are open at Tuesday, Thursday, Sunday from 9 to 16.30.

Publications: seed list, Guide-book "Siberian Botanical Garden" (1961).

Periodicals: Bulletin of the Siberian Botanical Garden.

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QUESTIONNAIRE

International Association of Botanic Gardens

(13)

Name and complete address: Botanical Garden of the ^ZUzhgorod State University. ^ZSokarpatskeys region, Uzhgorod, Oktyabrskaya street 60. Founded in 1946.

Ownership and affiliation: Ministry of higher and secondary education.

Longitude: 22°16' E. Latitude: 48°38' N. Altitude: 124 m.

Mean annual rainfall: 750 mm. Annual temperature range: 10°C.

Area: 7,5 hect. and 18 hect. dendrarium.

Number of species and varieties grown: 3200.

Time of greatest floral display: May - June.

Collections of special interest: bulb and ephemeral plants.

Chief objectives of the institutions: introduction and acclimatization of plants.

Name of the Director, with title and special fields of interest:
V.M. Danilski, agricuturist, plant breeding.

Other staff members, with titles and special fields of interest:
V.A. Grabar, floriculture; V.M. Suhodolsky, systemtic; V.P. Danilovich, dendrology.

Herbarium: wild species: 3500 specimens, cultivated plants - 400 specimens.

Library: 300 volumes.

Greenhouses: display - no, service - 1 (242 m²).

Departments: ^{Carpathian}flora department; dendrology, decorative-flower department, seed department.

Open to public display: garden is closed to public display.

Publications: seed list is published, guide booklet is compiled.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Agrobotanical Garden of the Kirghiz State University. Frunze 14, Belinsky street 100. Founded in 1947.

Ownership and affiliation: the Kirghiz State University.

Longitude: 74°35' E. Latitude: 42°50' N. Altitude: 760 m.

Mean annual rainfall: 377 mm. Annual temperature range: 10°C.

Area: 2 hect.

Number of species and varieties grown: 300.

Time of greatest floral display: no.

Collections of special interest: fruits, grape, berries, field crops, trees and shrubs.

Chief objectives of the institutions: introduction, acclimatization and breeding of fruits and berries, field and technical crops. Base for the studies for the students of the University.

Name of the Director: A.G. Gordienko, scientific agriculturist; dwarf fruit trees.

Other staff members with titles and special fields of interest:

D.P. Stepanenko - reader, K.I. Yaroshenko, P.G. Protsenko.

Herbarium: wild species - no, cultivated plants - 150 specimens.

Library: no.

Greenhouses: no.

Departments: dendrology, fruits and berries, field crops.

Open to public display: the garden is open for students only.

Publications: papers in the Proceedings of the Biological faculty and others.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Kharkov State University. Kharkov, Klochkovskaya 52. Founded in 1804.

Ownership and affiliation: the Kharkov State University.

Longitude: 36°17' E. Latitude: 49°56' N. Altitude: 99 m.

Mean annual rainfall: 511 mm. Annual temperature range: 6,3°C.

Area: 8 hect.

Number of species and varieties grown: 5623.

Time of greatest floral display: August.

Collections of special interest: no.

Chief objectives of the institutions: educational and scientific base of the University. Introduction and acclimatization. Popularization of botanical knowledge.

Name of the Director, with title and special fields of interest: F.I. Pedash, plant physiology.

Other staff members, with titles and special fields of interest: the staff of the botanical chair of the University.

Herbarium: wild species - no, cultivated plants - 6867 specimens.

Library: 2700 volumes.

Greenhouses: display - no, service - 10.

Departments: tropical and subtropical flora, decorative plants, trees and shrubs, Ukrainian native flora, fruits and berries and grape.

Open to public display: daily, from 8 to 16.

Publications: seed list yearly. Papers are published in the Proceedings of the Kharkov State University.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Botanical Garden of the Cherkassy Pedagogical Institute, Cherkassy, Gromov street 26. Founded in 1936.

Ownership and affiliation: Ministry of Education of the Ukrainian Soviet Socialist Republic.

Altitude: 102,4 m.

Mean annual rainfall: 512 mm. Annual temperature range: 7,3°C.

Area: 10 hect.

Number of species and varieties grown: 1210.

Time of greatest floral display: July - September.

Collections of special interest: Dahlias, Gladioli, Stocks, asters.

Chief objectives of the institutions: educational base of natural faculty. reproduction and distribution of seeds and plants.

Name of the director, with title and special fields of interest: M.I. Petrunya, reader, candidate of sciences; plant breeding.

Other staff members, with titles and special fields of interest: I.B. Sidoruk, professor, doctor of sciences; geobotany.

P.M. Potuinitsky, reader, candidate of sciences; agrobiolgy

I.V. Borodovnik, reader, candidate of sciences, physiology of plants.

Herbarium: wild species - 1670 specimens, cultivated plants - 335 specimens.

Library: 2400 volumes.

Greenhouses: display - 269 species, service - no.

400 000 000 000

133

2.

Departments: dendrarium, flower-ornamental plants of open ground,
plants of greenhouse, collection of agricultural, ⁱⁿ medical and
essential oil plants.

Open to public display: from May till October daily.

Publications: articles in scientific notes of Cherkassky Pedagogical
Institute, v. I-IV, VIII, XI, XIII, XIV.

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QUESTIONNAIRE**Internacional Association of Botanic Gardens**

Name and complete address: Botanical Garden of the Chernovitsky State University. Chernovtsy, Ukrainian SSR, Fedkovich street 11. Founded in 1877.

Ownership and affiliation: Ministry of Higher and Secondary Education of the Ukrainian Soviet Socialist Republic.

Longitude: 25°58'E. **Latitude:** 48°16'N. **Altitude:** 240 m.

Mean annual rainfall: 652 mm. **Annual temperature range:** 7,9°C.

Area: 7 hect.

Number of species and varieties grown: 1650.

Time of greatest floral display: April.

Collection of special interest: no.

Chief objectives of the institution: popularization of botanical knowledge among people. Experimental basis of Biological faculty of the Chernovitsky State University.

Name of the Director, with title and special fields of interest:

V.L.Danishchuk, physiology of plants.

Other staff members with titles and special fields of interest:

L.I.Golubeva, botany; Z.I.Gritsak, geobotany; O.S.Kotelevets, greenhouse plants; M.A.Eshchenko, cultivated plants; T.K.Kozlova, dendrology.

Herbarium: wild plants - 1570 specimens. cultivated plants - 600 specimens.

Library: together with the University.

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8.

**Departments and laboratories: the department of introduction
and acclimatization with laboratory of plant physiology.**

**Open to public display: Botanical museum is open from 10 till
17 on Thursday.**

**Publications: Seed list is published yearly. Guide book is
compiled. Articles are published in Year-book and Proce-
edings of the Chernovitsky State University.**

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the Yaroslavl Pedagogical Institute. Yaroslavl, Respublikanskaya street 108.
Founded in 1926.

Ownership and affiliation: Ministry of Education of Russian Soviet Federative Socialist Republic.

Longitude: 39°55' E. **Latitude:** 57°35' N. **Altitude:** 92 m.

Mean annual rainfall: 570 mm. **Annual temperature range:** 3°C.

Area: 2,95 hect.

Number of species and varieties grown: 501.

Time of greatest floral display: June - August.

Collections of special interest: medicinal plants, vegetables, grains, food crops, fibrous, oil-bearing plants, ether-oil plants, annuals, gladioli, dahlias, phloxes, systematic plot, indoor plants, cacti.

Chief objectives of the institutions: base for the students of the biological-geographical faculty. Scientific-instructive work.

Name of the Director, with title and special fields of interest:
B.N. Khokhlov, agronomist; introduction of berry shrubs.

Other staff members, with titles and special fields of interest:
staff of the botanical chair.

Herbarium: wild species of the Yaroslavl region - 1050 lists.

Taxonomy herbarium - 7500 lists.

Cultivated plants - 160 lists.

Library at the Institute - 369 000 volumes.

Greenhouses: display - no, service - 100 m².

Departments: no.

Open to public display: daily, except Sundays, from 8 up to 17.

Publications: seed list, descriptive booklet (1953). Scientific papers appear in the Proceedings of the Yaroslavl Pedagogical Institute.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: The Botanical park of the Ukrainian scientific research Institute of cattle breeding "Askania Nova". Khersonsky region, Novo-Troitsky district. Founded in 1886.

Ownership and affiliation: The Ukrainian Academy of agricultural sciences.

Longitude: 33°58'E. Latitude: 46°27'N. Altitude: 179 m.

Mean annual rainfall: 541 mm. Annual temperature range: 9,5°C.

Area: 68 hect. of the park, 1563 hect. of steppe reservation.

Number of species and varieties grown: 478 species of trees and bushes; 297 species of steppe plants.

Time of greatest floral display: May.

Collection of special interest: no.

Chief objectives of the institution: Introduction and acclimatization of trees and bushes, Field-protecting forest cultivation, Biology of steppe vegetation.

Name of the Director, with title and special fields of interest: G.M.Karasev, reader, candidate of agricultural sciences, steppe forest cultivation.

Other staff members, with titles and special fields of interest: I.A.Schipanova, candidate of biology; geobotany.

Herbarium: wild species - 622 specimens, cultivated plants - 350 specimens.

Library /together with the Institute/: 60 000 volumes.

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2.

Greenhouses: no.

Departments and laboratories: no.

**Open to public display: the Museum and Park are open from 8
till 17 daily.**

Publications: there are Seed List, Guide-book, and monography.

Periodicals: no. Papers in the Proceedings of the Institute.

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**FOR OFFICIAL USE ONLY****QUESTIONNAIRE****International Association of Botanic Gardens**

Name and complete address: Dendropark of the Azerbaijan scientific research Institute of Horticulture, Viticulture and Subtropical Cultures. Baku 44. Mardakyan. Street of 26 Comissarov, 89. Founded in 1926.

Ownership and affiliation: Ministry of Agriculture of the Azerbaijan Soviet Socialist Republic.

Altitude: 8 m.

Mean annual rainfall: 232 mm. **Annual temperature range:** 13,6°C.

Area: 8 hect.

Number of species and varieties grown: 410.

Time of greatest floral display: April 20 - May 30.

Collection of special interest: *Punica granatum* L. (100 sorts), *Olea europaea* L. (45 sorts), *Ficus carica* L. (40 sorts), *Vitis vinifera* L. (200 sorts), *Eucalyptus* (20 species) and others.

Chief objectives of the institution: introduction testing of trees and shrubs for greening, subtropical fruit growing and industrial usage. Breeding of fruits, grape, subtropical cultures and agrotechnics.

Name of the Director, with title and special fields of interest: Mrs. I.A. Zhigarevich, candidate of biology, senior scientist; subtropical fruit growing.

Other staff members with titles and special fields of interest: P.A. Shutov, candidate of biology, senior scientific worker, dendrology, decorative and subtropical wood-technical plants.

1959

A.D.Strebkova, candidate of biology, senior research worker, dendrology; S.G.Alekperova, junior research worker, greening and flower growing.

Herbarium: wild species - 1000 lists, cultivated plants - 5000 lists.

Library: 15 000 volumes.

Greenhouses: service - 1, lemon garden - 1.

Departments: viticulture, fruit growing, biochemistry and technology, subtropical cultures. Laboratories: agrochemistry and and soil science, plant physiology.

Open to public display: three times a week.

Publications: Seed list, 10 booklets, 3 volumes of Proceedings, 3 issues of Bulletin, 5 monographs and 40 other books.

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QUESTIONNAIRE

M/

International Association of Botanic Gardens

Name and complete address: Dendropark of Altai Fruit-Berry Experiment Station. Barnaul 20, Smeinogorsky tract 25. Founded in 1950.

Ownership and affiliation: Ministry of Agriculture of the Russian Soviet Federative Socialist Republic.

Longitude: 83°42'E. Latitude: 53°20'N. Altitude 210 m.

Mean annual rainfall: 479 mm. Annual temperature Range: 1,0°C.

Area: 9 hect.

Number of species and varieties grown: 1460.

Time of greatest floral display: June - July.

Collection of special interest: no.

Chief objectives of the institution: Assortment of ornamental plants for greening of settlements of Altai region.

Name of the Director, with title and special fields of interest:

M.A.Lisavenko, doctor of agriculture, professor, breeding of fruit plants.

Other staff members with titles and special fields of interest:

Z.I.Luchnik, candidate of agriculture, senior scientific worker, introduction of arboreous and bushes; I.V.Vereshchagina, candidate of agriculture, senior scientific worker, introduction of flower-ornamental perennials and floriculture.

Herbarium of cultivated plants: no.

Library: 14 834 volumes.

Greenhouses: no.

Departments: there are two departments - dendrology and floriculture.

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Open to public display: from June till September, daily.

Publications: The Seed List is being published annually. Other publications: Z.I.Luchnik. The list of trees and bushes, cultivated by Altai fruit-berry experimental station.

Barnaul, 1954.

Z.I.Luchnik. Ornamental plants of Mountain Altai.

Moscow, 1961.

Z.I.Luchnik. Greening of bushes. Moscow, 1960.

I.V.Vereshonagina. Open growned flower-growing

in Altai. Barnaul, 1960.

Z.I.Luchnik. Trees and bushes for greening of

towns and villages. Barnaul, 1961.

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UV3

QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: the Botanical Garden of the All-Union Research Institute of medicinal and aromatic plants. Post office Vilar, Moscow Region. Founded in 1952.

Ownership and affiliation: Ministry of Public Health of USSR.

Altitude: 172 m.

Mean annual rainfall: 587 mm. **Annual temperature range:** 3,8°C.

Area: 42 hect.

Number of species and varieties grown: 2600.

Time of greatest floral display: June - July.

Collections of special interest: pharmacopoeia plants.

Chief objectives of the institutions: investigation of medicinal plants and their usage in medicine.

Name of the Director, with title and special fields of interest:
P.N. Kibalchich, candidate of biology, senior scientist;
introduction and acclimatization.

Other staff members, with titles and special fields of interest:
V.I. Kichenko, cand. of biology. A.I. Shreter, cand. of biology. V.B. Kuvsev, cand. of biology. I.I. Gerasimenko, cand. of biology. N.S. Leskova, cand. of biology.

Herbarium: 7000 species.

Library (together with the Institute) - 37 228 volumes.

Greenhouses: display - 2, service - 6.

Laboratories: ecology, introduction, wild plants.

Open to public display: no.

Publications: seed list yearly.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Kazan Zoobotanic Garden. Kazan,

Khadi Taktash street 118. Founded in 1834.

Ownership and affiliation: the Ministry of Culture of the

Tatar Autonomous Soviet Socialist Republic.

Longitude: 49°11'E. **Latitude:** 55°47'N. **Altitude:** 78 m.

Mean annual rainfall: 437 mm. **Annual temperature range:** 3,3°C.

Area: 2,5 hect.

Number of species and varieties grown: 60 species in the open.

Time of the greatest floral display: August.

Collection of special interest: no.

Chief objectives of the institution: cultural-instructuve work,

popularization of natural-scientific knowledge.

Name of the Director, with title and special fields of interest:

M.K.Salmin, zootechnician.

Other staff members with titles and special fields of interest:

M.N.Suvorova, the head of the botanical department, sub-tropical plants; I.I.Garanina, botanist.

Herbarium: no.

Library: 740 volumes.

Greenhouses: display - 1, service - 1.

Laboratories: no.

Open to public display: in winter from 9 till 16 daily, in sum-

mer from 9 till 19 daily.

Publications: Seed list is published yearly; last Guide book

was published in 1956.

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WS

QUESTIONNAIRE**International Association of Botanic Gardens**

Name and complete address: Kaliningrad botanical garden. Kaliningrad, Belomorskaya street 20. Founded in 1900.

Ownership and affiliation: Regional Department of Education.

Longitude: 20°37'E. **Latitude:** 54°42'N. **Altitude:** 23 m.

Mean annual rainfall: 707 mm. **Annual temperature range:** 7,2°C.

Area: 16 hect.

Number of species and varieties grown: 1480.

Time of greatest floral display: May - October.

Collections of special interest: dendrarium, rose-garden, bulb plants.

Chief objectives of the institution: scientific-instructive activity and popularization of botanic knowledge among the people.

Name of the Director, with title and special fields of interest:
A.F.Kharchenko, bulb plants.

Other staff members with titles and special fields of interest:
I.V.Morozova, lilacs; R.N.Fedorova, introduction and acclimatization; G.G.Kucheneva, garden forms; M.A.Chernysheva, roses, gladioli; K.B.Ivanova, annual flower plants; E.A.Borovikova - dahlias, phloxes, peonies, irises.

Herbarium of cultivated trees and shrubs: 250 specimens.

Library: 5150 volumes.

Greenhouses: display - 6 sections, 600 m²; service - 2 sections, 240 m².

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Departments: dendrology, flower cultivation in the open ground,
glasshouses, plant protection.

Open to public display: Monday, Wednesday, Thursday, Friday
from 9 to 17, Saturday from 14 to 20, Sunday from 13 to 20.

Publications: there is no Seed List; booklets „Flowers”,
„Mushrooms” are published. Periodicals - no.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Kamenets-Podolsky Botanical Garden.
Kamenets-Podolsky, Khmel'nitsky Region. Leningradskeys
street 73. Founded in 1930.

Ownership and affiliation: Ministry of Education of the Ukrain-
ian Soviet Socialist Republic.

Altitude: 224 m.

Mean annual rainfall: 539 mm. Annual temperature range: 8,2°C.

Area: 18,5 hect.

Number of species and varieties grown: 955 (in open ground),
797 (in greenhouse).

Time of the greatest floral display: end of May, July - October.

Collections of special interest: grape - 120 sorts, roses - 110
sorts, gladioli - 135 sorts, tulips and hyacinths - 96 sorts,
Jahlias - 50 sorts and 108 sorts of native selection.

Chief objectives of the institutions: introduction and acclims-
tization, investigation of native flora, help to the scho-
ols, popularization of botanical knowledge.

Name of the Director: S.M.Bekhtsky, grape and food grasses.

Other staff members with titles and special fields of interest:
P.N.Rozhdestvensky - senior scientist; dendrology and flo-
wer growing. H.F.Srebnyak - senior scientist; native flora
and seed laboratory. A.A.Gritszenko - senior scientist;
grape cultivation and nuts. V.I.Novikova - senior scientist;
school department. V.A.Remishevsky - scientist; glasshouse
plants.

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2.

Herbarium: wild species - 1200, cultivated species - 150 specimens.

Library: 5000 volumes.

Greenhouses: display - 1 (255 m²), service - 1 (354 m²).

Departments: flora and vegetation, dendrology and decorative gardening, fruits, school.

Open to public display: from 1 May to 1 February, daily from 9 to 17.

Publications: no.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Kuibyshev Botanical Garden. Kuibyshev (regional), Post office 24, Ovrage Podpolshikov. Founded in 1932.

Ownership and affiliation: Ministry of education of the Russian Soviet Federative Socialist Republic.

Altitude: 100 m.

Mean annual rainfall: 345 mm. **Annual temperature range:** 3,8°C.

Area: 39,6 hect.

Number of species and varieties grown: 3500.

Time of greatest floral display: May - June.

Collections of special interest: willows, poplars, lilacs, pip-fruits, tulips, irises, succulents.

Chief objectives of the institution: choosing of trees, shrubs and perennials for greening with the help of introduction and acclimatization. Investigating of native flora.

Name of the Director, with title and special fields of interest:
G.F. Zetvornitsky, senior scientist. Creation of gardens, parks, dendrology, flower growing.

Other staff members, with titles and special fields of interest:
P.K. Yakovlev; dendrology. S.G. Karts; flower growing. I.P. Kosov; fruit growing. V.N. Rokhlova; hothouse cultures.

Herbarium: wild species - 10 000 lists, cultivated plants - 300 lists

Library: 4362 volumes.

Greenhouses: display - 1, service - no.

Seed laboratory.

Open to public display: daily from 9 to 16, Saturday from 9 to 14.

Publications: seed list, a guide book (1952), booklets.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Forest-Steppe Selection Experimental Station of the Decorative Cultures. Post Office Meshcherskoe, Lipetsk province. Founded in 1924.

Ownership and affiliation: Trust Goszelenkhoz, Moscow.

Altitude: 195 m.

Mean annual rainfall: 510 mm. **Annual temperature range:** 4,8°C.

Area: 181 hect.

Number of species and varieties grown: 1653.

Time of greatest floral display: May - June.

Collections of special interest: Syringa, Rhyladelphus, Spiraea, Crataegus.

Chief objectives of the institution: introduction and acclimatization of new species.

Name of the Director, with title and special fields of interest: Mrs. V. L. Romanova, agriculturist, fruit-grower.

Other staff members with titles and special fields of interest: 3 scientists: biologist, forester and engineer-dendrologist.

Herbarium: of wild plants - 30 specimens, of cultivated plants - 1100 specimens.

Library: 1500 volumes.

Greenhouses: display - no, service - 1.

Laboratories: no.

It is closed to public display.

Publications: Seed List yearly. Descriptive booklet and periodicals - no.

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151**International Association of Botanic Gardens**

Name and complete address: Kabardino-Balkar Botanical Garden,
Kabardino-Balkar Autonomous SSR, Nalchik - Dolinsk. Founded in
1955.

Ownership and affiliation: Ornamental plants statefarm of the Mi-
nistry of municipal economy of the Kabardino-Balkar Autonomous
Soviet Socialist Republic.

Longitude: 43°37' E. **Latitude:** 43°30' N. **Altitude:** 560 m.

Mean annual rainfall: 615 mm. **Annual temperature range:** 8,6°C.

Area: 50 hect.

Number of species and varieties grown: 2240.

Time of greatest floral display: caucasus primulas - March, April;
cultivated species and sorts - May - October.

Collections of special interest: systematism of flora of Kabardino-
Balkaria and North Caucasus, including mountain flora of Elbrus
district.

Chief objectives of the institutions: investigation of Kabardino-
Balkaria vegetation. Enrichment and testing of new plants for
decorative gardening.

Name of the Director, with title and special fields of interest:
K.S. Shogenov, plant protection.

Other staff members with titles and special fields of interest:
V.A. Tamenov, dendrology and introduction.

Herbarium: wild species - 740 specimens, cultivated plants - 500 spe-
cimens.

Library: 1000 volumes.

Greenhouses: display and service (under construction).

Departments: taxonomy, introduction, seed exchange, plant protection.

Biochemical laboratory.

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Open to public display: daily from 10 up to 16.

Publications: seed list. Descriptive book and booklets are prepared for printing. Periodicals. Monograph: Y.I. Kos "Vegetation of Kabardino-Balkaria".

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Przhevalsk Zonal Experimental Station
of the All-Union Research Institute of medicinal and aromati-
cal plants. Founded in 1928. Przhevalsk, Kirghiz SSR.

Ownership and affiliation: Ministry of Public Health of the USSR.

Altitude: 1718 m.

Mean annual rainfall: 400 mm. Annual temperature range: 5,4°C.

Area: 1 hect.

Number of species and varieties grown: 230.

Time of greatest floral display: June.

Collections of special interest: botanical nursery of medicinal
plants.

Chief objectives of the institutions: cultivation of medicinal
plants.

Name of the Director, with title and special field of interest:
P.I. Titov, candidate of agriculture, reader.

Other staff members, with titles and special fields of interest:
G.V. Stetsenko, head of the plant breeding department.
N.P. Bukzeev, candidate of agriculture, senior scientist, head
of the agrotechnic department.

Herbarium: wild species - 250 specimens, cultivated plants - no.

Library: 150 volumes.

Greenhouses: no.

Departments: plant breeding, agrotechnic, biochemistry.

Laboratories: biochemistry, agrochemistry.

It is closed to public display.

Publications: Seed List. Scientific papers are published in the
Proceedings of the Institute and in the periodicals of the
Kirghiz SSR.

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International Association of Botanic Gardens

Name and complete address: Stavropol Botanical Garden, Stavropol-Caucasian, Post Box 22. Founded in 1959.

Ownership and affiliation: Administration of forestry management of Stavropol region.

Longitude: 42°01' E. **Latitude:** 45°03' N. **Altitude:** 500 - 640 m.

Mean annual rainfall: 655 mm. **Annual temperature range:** 7,5°C.

Area: 487 hect.

Number of species and varieties grown: 1300.

Time of greatest floral display: May - June.

Collections of special interest: trees, shrubs, perennial bulb plants.

Chief objectives of the institutions: introduction of new trees, shrubs and perennials, investigating of native flora for the industrial use.

Name of the Director, with title and special fields of interest:

V.V. Kripchinsky, candidate of agriculture, reader. Ecological and evolutional physiology of plant development.

Other staff members, with titles and special fields of interest:

Y.A. Dudar, flora. E.N. Pisarenko, dendrology. M.A. Lesunova, fruit growing. L.I. Kremneva, dendrology.

Herbarium: wild species - 1500 specimens, cultivated plants - no.

Library: no.

Greenhouses: no.

Departments and Laboratories: no.

Open to public display: the garden is under construction and is closed to the public.

Publications: seed list yearly. Description of the garden was published in the Bulletin of the Main Bot. Gard., vol. 3, 1960.

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QUESTIONNAIRE

International Association of Botanic Gardens

Name and complete address: Chernigov Botanical Garden. Chernigov, Projectnaya street 4. Founded in 1947.

Ownership and affiliation: Chernigov municipal department of the Ministry of city economy of the Ukrainian Soviet Socialist Republic.

Longitude: $31^{\circ}17'$ E. Latitude: $51^{\circ}29'$ N. Altitude: 131 m.

Mean annual rainfall: 542 mm. Annual temperature range: $7,3^{\circ}\text{C}$.

Area: 92 hect.

Number of species and varieties grown: 1365.

Time of greatest floral display: August.

Collections of special interest: dendrarium, Dahlia garden, flower-ornamental perennials, bulbous plants, annuals, fruit-trees.

Chief objectives of the institutions: introduction and acclimatization of plants, greening.

Name of the Director: E.P. Halash.

Other staff members with titles and special fields of interest:

G.T. Sheptalova, a scientific worker, a department of floriculture and seed growing. A.V. Bilenchuk, a scientific worker, dendrarium.

Herbarium: no.

Library: 327 volumes.

Greenhouses: display - no, service - 50 m^2 .

Departments and laboratories: greening of towns, floriculture and seed growing, plant protection, dendrarium, nurseries.

Open to public display: the garden is closed to public display.

Publications: seed lists.

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