INTRODUCTORY STATEMENT

Inventory 110, recording plant material received by the Division of Foreign Plant Introduction between January 1 and March 31, 1932 (nos. 95552–98256), is conspicuous for two major groups—the one of soybeans containing 1,503 introductions, and the other the collections of the Allison V. Armour expedition to the West Indies and South America on which both David Fairchild and P. H. Dorsett collected for the Division a total of 371 numbers.

No two collections could be cited that would more perfectly illustrate the extremes of purposes that have to be pursued. The soybean collection is part of an intensive study of soybean types and varieties inaugurated by P. H. Dorsett and W. J. Morse during their explorations in 1929–30 when this crop was studied in the field. If the present introductions add as much to the advancement of this new crop as the former introductions have done, this collection, so dryly recorded here, will be of national importance. The other mass of material represents a study of the flora native and introduced of the islands and countries traversed, with the specific intent of establishing as many new plants as possible in the comparable areas about the Gulf of Mexico and in southern Florida. It embraces some duplicates, some one of which may be more suited than the rest for our conditions.

Conspicuous among the many subtropical plants, both economic and ornamental in character, are included seeds of many kinds of palms (over 40 numbers) some of them from plants native to the country of collection, others from exotic species established there. Plants raised from these seeds will be planted for testing in the South to determine their suitability for our soils and climates, and added to the present collection at Coconut Grove will make one of the most important collections in the country.

Through the courtesy of Maj. Lionel de Rothschild, London, England, the Division has shared in some of the seeds from the last Forrest expedition in China, which sent in, among other things, many rhododendrons; others who have contributed to the rhododendron studies of the Division are the Hon. Henry MacLaren and J. R. Stevenson, who have sent seeds of species and varieties for test as to hardiness.

Conspicuous additions of chestnut material from China are comprised in four sets of material (95631–95648, 95663, 95664, 97853–97857, 98001–98009) from Peter Liu and one from Japan (96390–96420) through R. Kent Beattie from 182749—33—1
the experiment station at Ayabe, the experiment station at Okitsu, and several other points which represent named cultivated varieties and several other trees of supposed merit, the whole to be used in studies now being made by Department specialists.

Many introductions, about 60 in number, were made to add to the maple collection at the United States Plant Field Station, Glenn Dale, Md., where the genus is the subject of several studies.

A few miscellaneous introductions appear in this inventory from the special expedition to South America made by C. O. Erlanson and H. G. MacMillan for wild potatoes, the excellent results of which will be recorded in Inventory No. 111 and in subsequent bulletins and papers that will record the successful use of their collected plants in breeding disease-resistant potato varieties. Also related to the general project are the potatoes presented by Dr. V. P. Alekseev (97354–97374), which were developed by him at the Sukhum Subtropical Branch of the All-Union Institute of Plant Industry, Sukhum, Caucasus.

The botanical determinations have been made and the nomenclature determined by H. C. Skeels, who has had general supervision of this inventory.

Knowles A. Ryerson,
Principal Horticulturist, in Charge.

Division of Foreign Plant Introduction,
Washington, D.C., June 5, 1933.
INVENTORY


From Germany. Seeds presented by Robert Bresssfeld, Potsdam. Received January 5, 1932.

A stout branched succulent perennial up to a foot high, with elongated thick irregularly toothed obovate-spatulate leaves over 2 inches long and numerous bright scarlet flowers in large terminal corymblike cymes. Native to Madagascar.

For previous introduction see 79170.


From Martos, Spain. Seeds presented by Frank H. Goll, Bureau of Plant Industry, United States Department of Agriculture. Received January 5, 1932.

A very sweet melon with a smooth deep-green skin.

95554 and 95555.

From Scotland. Seeds presented by Dr. J. W. Gregor, Scottish Society for Research in Plant Breeding, Corstorphine, Midlothian. Received January 6, 1932.


An annual tufted erect or ascending grass, up to a foot in height, with smooth leaves about an inch long and cylindrical spikes. It is native to Europe and the northern coast of Africa.

For previous introduction see 74170.


A perennial gray-green loosely cespitose grass with short creeping rhizomes and stems 1 to 2 feet high. It is native to the dry stony places throughout central Europe.

For previous introduction see 78799.

95556 to 95560.


95556. Castanopsis sp. Fagaceae.

No. 30347.


A form having a perianth intermediate between the Martagon and Eulirion sections with heavily blotched inside with purple.


A beautiful liliaceous plant about 3 feet high, which grows on grassy slopes on the outskirts of forests between 9,000 and 11,000 feet altitude. The leaves are ternate, and the large flowers, 3 inches across, are white, pink, purple, or red with deep irregular purple blotches and have salver-shaped corollas.

Forma farreri.

For previous introduction see 84020.

95559. Styrax sp. Styracaceae.

No. 29552.

95560. Thea forrestii Diels. Theaceae.

A shrub 3 to 8 feet high with slender branches, ovate or lanceolate papery leaves about an inch long, and small creamy white flowers. Native to wooded gullies in Yunnan, China.

For previous introduction see 93395.


From China. Scions collected by Peter Liu and sent through Owen L. Dawson, agricultural commissioner, Shanghai. Received January 7, 1932.

It should be understood that the names of horticultural varieties of fruits, vegetables, cereals, and other plants used in this inventory are those under which the material was received when introduced by the Division of Foreign Plant Introduction, and, further, that the printing of such names here does not constitute their official publication and adoption in this country. As the different varieties are studied, their entrance into the American trade forecast, and the use of varietal names for them in American literature becomes necessary, the foreign varietal designations appearing in this inventory will be subject to change with a view to bringing the forms of the names into harmony with recognized horticultural nomenclature.

It is a well-known fact that botanical descriptions, both technical and economic, seldom mention the seeds at all and rarely describe them in such a way as to make possible identification from the seeds alone. Many of the unusual plants listed in these inventories are appearing in this country for the first time, and there are no seed samples or herbarium specimens with ripe seeds with which the new arrivals may be compared. The only identification possible is to see that the sample received resembles seeds of other species of the same genus or of related genera. The responsibility for the identifications therefore must necessarily often rest with the person sending the material. If there is any question regarding the correctness of the identification of any plant received from this division, herbarium specimens of leaves and flowers should be sent in so that definite identification can be made.
PLANT MATERIAL INTRODUCED

95561—Continued

Cassia flower chestnut. Collected in the foothills near Wusi.

95562 to 95575.
From the Union of Soviet Socialist Republics. Seeds presented by the director, Tiflis Botanic Garden, Tiflis, Georgia, Caucasus. Received January 7, 1932.

95562 to 95566. Acer spp. Aceraceae.

95567. ALLIUM PSEUDOSTRICTUM. Alliaceae.


From Japan. Seeds purchased from the Yokohama Nursery Co., Yokohama. Received January 7, 1932.

95576. No. 1. 95578. No. 3.
95577. No. 2. 95579. No. 4.


From India. Seeds presented by Jai Chand Luthra, professor of botany, Lyallpur, Punjab. Received January 11, 1932. A mixed sample, purchased in the market.
From Canada. Seeds presented by Dr. G. P. McKrostie, Department of Agronomy, Manitoba Agricultural College, Winnipeg. Received January 12, 1932.

One of the selections of Poa flabellata, selected out by Professor Roberts, who secured the seed from the Falkland Islands 5 years ago.

95582. Ficus callosa Willd. Moraceae. Fig.
From Ceylon. Seeds presented by T. H. Parsons, curator, Royal Botanic Gardens, Peradeniya. Received January 13, 1932.

A large tree, native to southeastern Asia, with hoary warted branchlets and rigid leathery elliptical leaves 5 to 8 inches long. The yellow pubescent fruits, 1 inch in diameter, are slightly pear shaped and are borne singly in the axils of the leaves.

From Manchuria. Seeds presented by M. Gen. and M. Poilane, Institut des Recherches, and the asterlike blue or white flower heads are clustered on axillary peduncles, forming a leafy panicle.

From the West Indies. Scions collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armour expedition. Received January 14, 1932.

A collection of seeds from Manchuria and northern China.

95588. No. 1. 95589. No. 6.
95588. No. 2. 95589. No. 7.
95588. No. 3. 95590. No. 8.
95588. No. 4. 95591. No. 9.
95587. No. 5. 95592. No. 10.


A very graceful small thorny tree, native to India, where it grows wild in the lagoons, apparently a wild rice which rather closely resembles the cultivated rice.

95599 and 95600—Continued
Received from Jobabo, Oriente, Cuba, where it grows wild in the lagoons. A perennial wild rice distributed throughout parts of tropical Asia, Africa, and America. The tufted stems become 6 to 8 feet high, and the plant is said to flower and produce seeds throughout the year. The smooth leaves are 1 to 2 feet long, and about an inch wide, and the erect spike is up to 4 inches long.

For previous introduction see 95517.

From Tasmania. Seeds presented by L. A. Evans, Sandy Bay, Hobart. Received January 14, 1932.

A low straggling shrub, native to Tasmania and Australia, with the branches, flower stems, and the under side of the leaves covered with woollyomentum. The obovate leaves, 1 to 2 inches long, are shining and reticulate above, and the asterlike blue or white flower heads are clustered on axillary peduncles, resembling the cultivated rice.

95598. Ficus carica L. Moraceae. Common fig.
From Switzerland. Cuttings presented by Col. F. E. Durham, through the Royal Horticultural Society, London. Received January 15, 1932.

Brown turkey.


Introduced for the use of Department specialists.

95599 and 95600. Thalictrum aquilegifolium L. Columbine meadowrue.
95601. Thalictrum chelidonii DC.
95602. Thalictrum delavayi Franch.
95603. Thalictrum diptercarpum Franch.
95604. Thalictrum fendleri Engelm.
95605. Thalictrum flexuosum Bernh.
95606. Thalictrum glaucum Desf. Dusty meadowrue.
95607. Thalictrum majus Jacq.
95608. Thalictrum minus L. Low meadowrue.
95609. Thalictrum odoratum Gren. and Godr.
95610. Thalictrum saxatile VIII.
From Cuba. Cuttings presented by Robert M. Gray, superintendent, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received January 18, 1932.
95611 to 95614—Continued

A collection of floriferous seedlings grown at the Soledad Garden.

95611. BOUGAINVILLA GLABEA X BUTAB (Crimson Lake).
No. 1.

95612 to 95614. BOUGAINVILLA SPECTABILIS LATERITIA X BUTAB.
95612. No. 2.
95614. No. 19.


From China. Seeds collected by Peter Liu and sent through Owen L. Dawson, agricultural commissioner, Shanghai. Received January 18, 1932.

For the introduction of scions see 95561.

95616 to 95628.


95616. ABIES sp. Pinaceae. Fir.


No. 29889. A stately plant with pendulous globular-looking flowers of pure white, that deepen to dark dull claret as they die. The stems are up to 20 inches high, and the basal leaves, ovate and papery, are 4 to 5 inches long. Native to Upper Burma.

95618. CREMANTHODIUM sp. Asteraceae.

No. 29863.

95619. DAPHNIFIEDDUM BEDDOMI Craib. Euphorbiaceae.

A tropical tree becoming about 50 feet high, with rather thin oblong-lanceolate leaves 3 to 5 inches long and small white flowers in short axillary clusters. Native to Burma.

95620. EUONYMUS sp. Celastraceae.

No. 30379.


No. 29943. For previous introduction and description see 95557.

95622. LILIUM OCHRACEUM Franch. Liliaceae. Lily.

No. 29944. A rare and beautiful lily from Burma, not hardy except in the most favorable districts; it is an admirable cool greenhouse plant. This is a very variable species, producing flowers which range in color from deep golden yellow to pale yellow stained in varying degrees with deep wine purple.

For previous introduction see 91632.

95631 to 95633. CASTANEA HENRYI (Skam) Rehd. and Wils. Chestnut.

No. 3. Chu Lee or Chun Lee, pear chestnut. Seeds and scions of an edible chestnut collected in Chekiang Province. The tree becomes 25 to 30 feet high, with oblong-lanceolate, long-acuminate leaves, green on both sides. The buds are either solitary or two in a bunch and contain usually but one nut.

95631. From Hsiiaofeng.
95632. Scions from Fengchiao.
95633. From Fengchiao.

95634 to 95648. CASTANEA MOLLISSIMA Blume. Hairy chestnut.
95630 to 95655—Continued

95641. Hing Kuo Nei Pi Lee, black-skinned chestnut. From Ningkwoshien, Anhwei Province.

95642. Han Lu, cold dew chestnut. From North Mountain, Peking. Chihli Province.

95643. Tung Shan, or East Mountain chestnut. Collected on East Mountain, about 60 miles northeast of Peking, Chihli Province.

95644. Kuei Lee, large chestnut. From Linanhsien, Chekiang Province.

95645. Kuei Lee, large chestnut. From Hsiaofeng, Chekiang Province.

95646. Kuei Lee, large chestnut. From Fengchiao, Chekiang Province.

95647. Hu Chao Li Tsu, tiger paw chestnut. From Peking, Chihli Province.

95648. Bai Mao Tsu, white hairy chestnut. A rare variety obtained from a countrywoman at Tulilingkang, near Yichang. Chekiang Province.


From previous introduction see 78527.


95651. Collected near the Winter Palace.

95652. Collected at the Chieh Tai Tsu Temple, Western Hills.

95653. Collected at the Tan Chow Suu Temple, Western Hills.


95655. Sarumum semibumum (L.) Roth. Umbelliferae. Chinese tallowtree. Chin Tsu. Seeds collected between Chuki and Fengchiao, Chekiang Province. The oil from the kernels of these seeds is used for making machine oil and the tallow from the outer skin for making candles.


A shrub up to 5 feet high with broadly-cordate to cordate leaves densely velvety on both sides. The bright lemon-yellow flowers are 1 to 2 inches across and have a purple spot at the base of each petal. Native to Baja California. For previous introduction see 93543.

95657 and 95658. From Canada. Seeds presented by Prof. L. E. Kirk, Field Husbandry Department, University of Saskatchewan, Saskatoon. Received January 19, 1932.

A collection of grasses introduced for the use of Department specialists working with forage crops.


For previous introduction see 91377.


From Maryland. Cuttings presented by A. E. Merritt, Chevy Chase. Received January 19, 1932.

95659. A form with semidouble pink flowers.

95660. A form with single pink flowers.

95661 and 95662. From the Union of Soviet Socialist Republics. Seeds presented by V. P. Alekseev, plant introducer, Sukhum Subtropical Branch of the All-Union Institute of Plant Industry, Sukhum, Caucasus. Received January 19, 1932.

95661. Butia capitata X eriospatha. Phoenicaceae. Palm. A natural hybrid combining characters of both parents. The fruit very closely resembles the best Japanese loquats, and the tree will probably thrive in every location where the Satsuma orange is a commercial crop.

95661 and 95662—Continued

No. 41337. A very free-flowering, low-spreading evergreen shrub with narrow flat foliage. It is perhaps more hardy than the common type.

For previous introduction see 73857.


From China. Scions collected by Peter Liu and sent through Owen L. Dawson, agri-cultural commissioner, Shanghai. Received January 19, 1932.

Collected December 18, 1930 at the village of Huangchuan, near Shantung.

95661 and 95662—Continued

95668. BULBINELLA HOOKERI (Colenso) Cheesman. Liliaceae. Tiger paw.

A perennial herb, native to northern Europe, with slightly serrated leaves and solitary flower heads with long yellow rays.

95667 to 95681—Continued

95667. ERYNGIUM BOUGATTI GOURD. Apio- ceae.

A low herbaceous perennial, native to the Mediterranean region, with solitary sparingly branched stems 1 to 2 feet high. The rigid leafy reflexed leaves are palmately 3- to 5-lobed and have spiny teeth, and the flower heads are blue or rarely green.

95673. ERYNGIUM VIOLETTA Hort. Apio- ceae.

A name for which a place of publication and a description have not been found.

95674 and 95675. GALEGA OFFICINALIS L. Fabaceae.

Common goat's rue.

95674. Her Majesty.

95675. Niobe.

95676. NEPETA MACRANTHA Fisch. Men- thaceae.

Souvenir de Andrée Chaudron. An erect branching herbaceous perennial with ovate-lanceolate leaves green on both sides and showy blue flowers 1 inch long in few-flowered cymes. It is native to the Altai region.


A perennial herb 1 foot high, native to Asia Minor. The broadly cordate, obtusely crested leaves are petiolate at the base of the stem and reduce to sessile bracts at the top. The large showy flowers with curving tubes 1 inch long are borne in interrupted spikes.

Variety superba. Said to have flowers of intense mauve or a rich shade of purple-violet.

95669. BUPHTHALMUM SALICIFOLIUM L. Asteraceae. Willowleaf oxeyez.

A perennial herb, native to northern Europe, with slightly serrated leaves and solitary flower heads with long yellow rays.

95670. DRACOCEPHALUM RUYSCHIANUM L. Menthaceae. Siberian dragonhead.

A slightly pubescent herbaceous perennial about 2 feet high with linear-lanceolate entire leaves and interrupted spikes of 2-lipped purple flowers an inch long. It is native to Siberia.


A perennial herb 1 foot high, native to northwestern America, with trifoliate leaves made up of angularly 3-lobed cor- date leaflets and panicles of small white flowers.

95672. ERYNGIUM BOUGATTI GOURD. Apio- ceae.

A low herbaceous perennial, native to the Mediterranean region, with solitary sparingly branched stems 1 to 2 feet high. The rigid leafy reflexed leaves are palmately 3- to 5-lobed and have spiny teeth, and the flower heads are blue or rarely green.

95673. ERYNGIUM VIOLETTA Hort. Apio- ceae.

A name for which a place of publication and a description have not been found.

95674 and 95675. GALEGA OFFICINALIS L. Fabaceae.

Common goat's rue.

95674. Her Majesty.

95675. Niobe.

95676. NEPETA MACRANTHA Fisch. Men- thaceae.

Souvenir de Andrée Chaudron. An erect branching herbaceous perennial with ovate-lanceolate leaves green on both sides and showy blue flowers 1 inch long in few-flowered cymes. It is native to the Altai region.


A perennial herb 1 to 2 feet high, native to western Asia. The slightly branched, somewhat feathery stems bear coriaceous-obtusely obscurely 5-lobed cre- nate leaves and umbels of rose-colored flowers having the two upper petals much longer than the lower ones.

95678 to 95680. TRICYRTIS spp. Melan- thaceae.

Toadily.

95678. TRICYRTIS HIRTA Hook. Hairy toadlily.

A perennial herb, 1 to 3 feet high, covered with soft whitish spreading hairs. The coriaceous-obtusely obscurely 5-lobed cre- nate leaves clasp the stem, and the white lilylike flowers are covered with purple spots. It is native to Japan.

From Canada. Seeds presented by Prof. L. E. Kirk, Field Husbandry Department, University of Saskatchewan, Saskatoon. Received January 19, 1932.

Seeds of the 1931 crop, introduced for the use of Department specialists.

For previous introduction and description see 95658.

95682. (S-23-37-3-1-1).

95683. (S-13-1-2-1).

95684. (S-37-3-2-1).

95685. (S-35-1-5-2).

95686. **EUCHLAENA MEXICANA** Schrad. *Poaceae.* Teosinte.

From Guatemala. Seeds presented by Wilson Popoeo, research department, United Fruit Co., Guatemala City. Received January 25, 1932.

A coarse annual grass, native to Mexico, where it was cultivated in prehistoric times. It resembles corn rather closely and some botanists consider that corn is a hybrid of which teosinte is one of the parents.

For previous introduction see 93264.


From the island of Guam. Seeds presented by C. W. Edwards, director, Agricultural Experiment Station. Received January 25, 1932.

Selected seed.

95688 to 95705. From the West Indies. Seeds collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armour expedition. Received January 25, 1932.

95688 to 95705—Continued


No. 2565. *Lady finger.* Collected on Cat Island, Bahamas. A tall symmetrical tree 25 feet high, with shiny dark-green leathery leaves and round or oblong fleshy fruits resembling in outward appearance a smooth-skinned brown potato. It is native to tropical America, although it is now cultivated in the Anti- cies as well. When thoroughly ripe the fruit is fine eating, a very thin skin enclosing a pale-brown juicy pulp of delicious flavor. The bark contains a milky latex known commercially as chicle. The tree is best propagated from cuttings, although it may also be raised from seeds.

For previous introduction see 93298.


No. 2558. *Bull vine.* Collected January 3, 1932, at Grant Town and Nassau, New Providence Island. A slender slightly fleshy vine 6 to 10 feet long, native to the West Indies. The trifoliate leaves have oblong-lanceolate serrate leaflets 1 to 2 inches long, and the compound cymes of red flowers are followed by subglobose black berries on red pedicels.

95690. **CONCARPUS ERECTA** L. *Combretaceae.*

No. 2568. Collected January 4, 1932, at Arthur Town, Cat Island, Bahamas, *Buttonwood.* Variety *sericea.* A silky pubescent shrub or tree from 3 to 60 feet high with angled or winged branchlets. The elliptic or ovate, densely tomentose leaves are 1 to 2 inches long, and the inconspicuous flowers, borne in small heads, are followed by reddish-brown fruits one half inch long. It is native to the seacoasts of Florida, the West Indies, tropical America, and western tropical Africa.


Fig. No. 2555. Collected January 1, 1932 at Nassau, New Providence Island, Bahamas. A small-leaved wild fig which produces small, purple, sweetish fruits about an inch long.

95692. **GALACTIA STRIATA** (Jacq.) Urban. *Fabaceae.*

No. 5. Collected January 5, 1932, on Conception Island, Bahamas. A rather strong-growing viny plant with pink pealike flowers.

95693. **IPOMOEA TUBA** (Schlecht.) Don. *Convolvulaceae.*

No. 6. Collected January 5, 1932, on Conception Island. A fleshy climbing vine up to 30 feet long with opposite-orbicular leaves 3 to 5 inches long and white flowers having five narrow greenish bands. It is native to the West Indies and tropical America.

9569. **JACQUEMONTIA JAMAICENSIS** (Jacq.) Hallier f. *Convolvulaceae.*

No. 2554. Collected January 1, 1932, at Nassau, New Providence, Bahamas. A strong-growing viny plant with small narrow leaves and small white flowers with pointed petals.

95695. **BOURBERIA OVATA** Miers. *Boraginaceae.*

No. 2571. *Strong back.* Collected on Rum Key, Bahamas, January 6, 1932. A
10

PLANT MATERIAL INTRODUCED

95688 to 95705—Continued

shrub with glossy green leaves, fragrant white flowers, and small yellow edible fruits. Under cultivation this may prove a good hedge plant for rocky pine-white flowers, and small yellow edible 
spp. Passiflora fruits. Under cultivation this may

95697 and 95698. Passiflora rectifolia Griseb.

A red-fruited species with attractive foliage of thickish dark-green leaves.

95697. No. 2569. Collected January 5, 1932 on Conception Island.

95698. No. 2569-A. Collected January 6, 1932 on Rum Key.


No. 2569. Collected January 4, 1932 on Cat Island. A white or yellowish-white flowered bean with pure white beans which is a vigorous grower and may be a perennial. It is cultivated in the cornfields here by the colored folks who eat it when they cannot get the pigeonpea.


For previous introduction see 75225.


No. 7. A large tree up to 80 feet high, with long horizontal branches eventually forming a flat crown. The rigid acute bright-green leaves are 5 to 8 inches long, and the broadly ovate chestnut-brown cones, 4 to 6 inches long. Bear reddish-brown seeds nearly 1 inch long. It is native to southern Europe.


95702. No. 8. Collected on Cat Island,

95703. No. 2556. Renmi seed. Collected January 2, 1932 at Nassau, New Providence Island. A white-seeded strain. A good cooking oil is made from the seed and is used in making cakes and candies.


No. 2559. Collected January 3, 1932 near Grant Town, Nassau, New Providence Island. A woody vine, native to the West Indies up to 25 feet high, climbing by coiled tendrils. The thin cordate ovate leaves are 1 to 4 inches long; the small yellow flowers are borne in pubescent racemes and are followed by broadly winged fruits half an inch long.


No. 2557. Collected January 2, 1932 near Grant Town, Nassau, New Providence Island. An ornamental shrub with

95688 to 96705—Continued

smooth dark-green slightly fleshy obovate leaves and loose panicles of deep pink flowers followed by tiny papery pods, filled with dark-brown seeds.

For previous introduction see 68863.

95706 to 96383. Soybean (Glycine hispida Maxim.). Fabaceae. Soybean.

From Chosen. Seeds arranged for by the Dorsett and Morse expedition and sent through the American consulate at Tokyo, Japan. Received January 28, 1932.

A collection of soybeans presented by the Selsen Shijo (western branch) of the Agricultural Experiment Station of the Chosen Government, Shariin, October 24, 1931.

95706 to 95718. From the Zenra-Nando Prefecture.

95706. No. 7971. Station no. 1. Medium size, straw-yellow with dark-brown hilum; heavily mottled with brown.

95707. No. 7972. Station no. 2. Medium size, olive-yellow with dark brown hilum; slightly mottled with brown.

95708. No. 7973. Station no. 3. Medium small green with brown hilum; green germ; slightly mottled with brown.

95709. No. 7974. Station no. 4. Medium size, straw to olive-yellow with pale hilum; slightly mottled with brown.

95710. No. 7975. Station no. 5. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95711. No. 7976. Station no. 6. Medium size, straw to olive-yellow with pale hilum; slightly mottled with brown.

95712. No. 7977. Station no. 7. Medium size, black with yellow germ.

95713. No. 7978. Station no. 8. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

95714. No. 7979. Station no. 9. Medium size, straw-yellow with brown hilum; slightly flattened; slightly mottled with brown.

95715. No. 7980. Station no. 10. Medium small, green with light-brown hilum; germ green.

95716. No. 7981. Station no. 11. Medium size, straw-yellow with pale hilum; heavily mottled with brown.

95717. No. 7982. Station no. 12. Medium size, straw to olive-yellow with pale hilum; slightly mottled with brown.

95718. No. 7983. Station no. 13. Medium size, straw-yellow with pale hilum; heavily mottled with brown.

95719 to 95740. From the Zenra-Hokudo Prefecture.


95720. No. 7985. Station no. 15. Medium size, straw-yellow with pale hilum; slightly mottled with brown.
95706 to 96383—Continued

95721. No. 7986. Station no. 18. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95722. No. 7987. Station no. 17. Medium size, straw-yellow with pale hilum; heavily mottled with brown.

95723. No. 7988. Station no. 18. Medium size, straw-yellow with pale hilum; heavily mottled with brown.

95724. No. 7989. Station no. 19. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95725. No. 7990. Station no. 20. Medium size, straw to olive-yellow with pale hilum; heavily mottled with brown.

95726. No. 7991. Station no. 21. Medium large, straw-yellow with pale hilum; mottled with brown. Seed coat slightly wrinkled and split.

95727. No. 7992. Station no. 22. Large size, straw- to olive-yellow with pale hilum; slightly mottled with brown.

95728. No. 7993. Station no. 23. Medium large, straw-yellow with pale hilum; mottled with brown.

95729. No. 7994. Station no. 24. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95730. No. 7995. Station no. 25. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95731. No. 7996. Station no. 26. Medium size, straw-yellow with pale hilum; mottled with brown.

95732. No. 7997. Station no. 27. Medium size, straw- to olive-yellow with pale hilum; slightly mottled with brown.

95733. No. 7998. Station no. 28. Medium large, straw- to olive-yellow with pale hilum; heavily mottled with brown.

95734. No. 7999. Station no. 29. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95735. No. 8000. Station no. 30. Medium size, straw-yellow with pale hilum; mottled with brown.

95736. No. 8001. Station no. 31. Medium size, straw-yellow with pale hilum.

95737. No. 8002. Station no. 32. Large size, straw-yellow with pale hilum.

95738. No. 8003. Station no. 33. Medium size, straw-yellow with pale hilum.

95739. No. 8004. Station no. 34. Medium large, straw-yellow with brown hilum; slightly mottled with brown.

95740. No. 8005. Station no. 35. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95741 to 95776. From the Keisho-Nando Prefecture.

95741. No. 8006. Station no. 36. Medium small, straw-yellow with dark-brown hilum.

95742. No. 8007. Station no. 37. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

95743. No. 8008. Station no. 38. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

95744. No. 8009. Station no. 39. Medium size, straw-yellow, slightly flattened; dark-brown hilum; slightly mottled with brown.

95745. No. 8010. Station no. 40. Medium size, straw-yellow with pale hilum.

95746. No. 8011. Station no. 41. Medium size, straw-yellow with brown hilum; heavily mottled with brown.

95747. No. 8012. Station no. 42. Medium large, straw-yellow with pale hilum.

95748. No. 8013. Station no. 43. Medium small, straw-yellow with pale hilum; slightly flattened and slightly mottled with brown.

95749. No. 8014. Station no. 44. Medium small, straw-yellow with dark-brown hilum; heavily mottled with brown.

95750. No. 8015. Station no. 45. Medium large, straw-yellow with pale hilum; slightly mottled with brown.

95751. No. 8016. Station no. 46. Medium small, straw-yellow with brown hilum.

95752. No. 8017. Station no. 47. Medium large, straw-yellow to olive yellow with pale hilum; slightly mottled with brown.

95753. No. 8018. Station no. 48. Medium small, straw-yellow with pale hilum; heavily mottled with black and brown.

95754. No. 8019. Station no. 49. Medium size, straw-yellow with pale hilum; heavily mottled with brown.

95755. No. 8020. Station no. 50. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

95756. No. 8021. Station no. 51. Medium large, straw-yellow with pale hilum; heavily mottled with brown.

95757. No. 8022. Station no. 52. Medium large, straw-yellow with pale hilum; heavily mottled with brown.

95758. No. 8023. Station no. 53. Medium large, straw-yellow with pale hilum; slightly mottled with brown.

95759. No. 8024. Station no. 54. Medium small, straw-yellow with dark-brown hilum; slightly mottled.

95760. No. 8025. Station no. 55. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95761. No. 8026. Station no. 56. Medium large, straw-yellow with pale hilum; mottled with brown.

95762. No. 8027. Station no. 57. Medium size, pale-straw yellow with brown hilum.

95763. No. 8028. Station no. 58. Medium size, straw-yellow with dark-brown hilum; heavily mottled with brown.

95764. No. 8029. Station no. 59. Medium size, straw-yellow with dark-brown hilum; slightly mottled with brown.

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95706 to 96383—Continued

95706. No. 8030. Station no. 60. Medium size, straw-yellow with pale hilum; heavily mottled with brown.
95707. No. 8031. Station no. 61. Medium size, straw-yellow with brown hilum; slightly mottled with brown.
95708. No. 8032. Station no. 62. Medium size, straw-yellow with pale hilum; heavily mottled with brown.
95709. No. 8033. Station no. 63. Medium large, straw-yellow with pale hilum.
95710. No. 8034. Station no. 64. Medium small, straw- to olive-yellow with brown hilum; slightly mottled with brown.
95711. No. 8035. Station no. 65. Medium size, light straw-yellow with dark brown hilum; slightly mottled with brown.
95712. No. 8036. Station no. 66. Medium size, light straw-yellow with dark-brown hilum; mottled with brown.
95713. No. 8037. Station no. 67. Medium size, light straw-yellow with brown hilum; slightly mottled with brown.
95714. No. 8038. Station no. 68. Medium size, green with brown hilum; slightly mottled with brown.
95715. No. 8039. Station no. 69. Medium large, straw-yellow with pale hilum; heavily mottled with brown. Wrinkled and split.
95716. No. 8040. Station no. 70. Medium size, straw-yellow with dark-brown hilum; slightly mottled with brown.
95717. No. 8041. Station no. 71. Medium size, straw-yellow with brown hilum; slightly mottled with brown.
95718. No. 8042. Station no. 72. Medium size, straw-yellow with pale hilum.
95719. No. 8043. Station no. 73. Medium size, straw-yellow with pale hilum.
95720. No. 8044. Station no. 74. Medium large, straw-yellow with pale hilum; mottled with brown.
95721. No. 8045. Station no. 75. Medium size, olive-yellow with pale hilum; heavily mottled with brown.
95722. No. 8046. Station no. 76. Medium size, straw-yellow with brown hilum.
95723. No. 8047. Station no. 77. Medium size, straw to greenish yellow with pale hilum.
95724. No. 8048. Station no. 78. Medium size, straw-yellow with pale hilum; slightly mottled.
95725. No. 8049. Station no. 79. Medium large, straw to greenish yellow with pale hilum; mottled with brown.
95726. No. 8050. Station no. 80. Medium large, straw-yellow with pale hilum. Slightly flattened.

95777 to 95828. From the Keisho Hōkudo Prefecture.
95777. No. 8042. Station no. 72. Medium size, straw-yellow with brown hilum.
95778. No. 8043. Station no. 73. Medium size, straw-yellow with pale hilum.
95779. No. 8044. Station no. 74. Medium large, straw-yellow with pale hilum; mottled with brown.
95780. No. 8045. Station no. 75. Medium size, olive-yellow with pale hilum; heavily mottled with brown.
95781. No. 8046. Station no. 76. Medium size, straw-yellow with brown hilum.
95782. No. 8047. Station no. 77. Medium size, straw to greenish yellow with pale hilum.
95783. No. 8048. Station no. 78. Medium size, straw-yellow with pale hilum; slightly mottled.
95784. No. 8049. Station no. 79. Medium large, straw to greenish yellow with pale hilum; mottled with brown.
95785. No. 8050. Station no. 80. Medium large, straw-yellow with pale hilum. Slightly flattened.

95786. No. 8051. Station no. 81. Medium large, straw-yellow with pale hilum; heavily mottled with brown.
95787. No. 8052. Station no. 82. Medium large, olive-yellow with pale hilum; very heavily mottled with dark brown.
95788. No. 8053. Station no. 83. Medium large, straw-yellow with pale hilum; lightly mottled with brown; seed coat more or less wrinkled and cracked.
95789. No. 8054. Station no. 84. Medium size, straw-yellow with pale hilum; slightly mottled with brown; seed coat more or less wrinkled and cracked.
95790. No. 8055. Station no. 85. Medium size, straw to olive-yellow with pale hilum; heavily mottled with dark brown.
95791. No. 8056. Station no. 86. Large size, straw to greenish yellow with pale hilum; mottled with brown.
95792. No. 8057. Station no. 87. Medium large, straw-yellow with brown hilum; mottled with brown.
95793. No. 8058. Station no. 88. Medium large, straw- to olive-yellow with pale hilum; seed coat more or less wrinkled and cracked; slightly mottled.
95794. No. 8059. Station no. 89. Medium size, pale straw-yellow with pale hilum.
95795. No. 8060. Station no. 90. Medium size, straw-yellow with brown hilum.
95796. No. 8061. Station no. 91. Medium size, straw-yellow with brown hilum.
95797. No. 8062. Station no. 92. Medium size, straw-yellow with pale hilum; mottled with brown.
95798. No. 8063. Station no. 93. Medium large, straw-yellow with pale hilum; mottled with brown.
95799. No. 8064. Station no. 94. Medium size, straw- to olive-yellow with pale hilum; mottled with brown.
95800. No. 8065. Station no. 95. Medium size, straw-yellow with pale hilum; mottled slightly.
95801. No. 8066. Station no. 96. Medium size, straw-yellow with dark brown hilum; seed coat wrinkled and cracked.
95802. No. 8067. Station no. 97. Medium large, straw-yellow with pale hilum; slightly mottled.
95803. No. 8068. Station no. 98. Medium large, straw-yellow with pale hilum; slightly mottled with brown.
95804. No. 8069. Station no. 99. Medium large, olive-yellow with pale hilum; slightly mottled with brown. Seed coat somewhat wrinkled and split.
95805. No. 8070. Station no. 100. Medium small, black. Yellow germ. Slightly flattened.
95806. No. 8071. Station no. 101. Medium size, straw-yellow with pale hilum; slightly mottled with brown.
95706 to 96383—Continued

95707. No. 8072. Station no. 102. Medium large, straw-yellow with pale hilum; heavily mottled with brown.

95708. No. 8073. Station no. 103. Medium size, straw-to olive-yellow with pale hilum; heavily mottled with dark brown.

95709. No. 8074. Station no. 104. Medium size, straw-yellow with brown hilum; mottled with brown.

95710. No. 8075. Station no. 105. Medium size, straw-yellow with pale hilum; mottled with brown.

95711. No. 8076. Station no. 106. Medium large, straw-yellow with pale hilum; mottled with brown.


95713. No. 8078. Station no. 108. Medium size, straw-to olive-yellow with pale hilum.

95714. No. 8079. Station no. 109. Medium size, straw-yellow with pale hilum; seed coat more or less wrinkled and cracked.

95715. No. 8080. Station no. 110. Medium large, straw-yellow with pale hilum; mottled with brown.

95716. No. 8081. Station no. 111. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95717. No. 8082. Station no. 112. Medium size, straw to greenish yellow, pale hilum; slightly mottled with brown.

95718. No. 8083. Station no. 113. Medium large, straw-yellow with pale hilum; evidence of purple spot on seed.


95720. No. 8085. Station no. 115. Medium size, straw-yellow with pale hilum.

95721. No. 8086. Station no. 116. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95722. No. 8087. Station no. 117. Medium size, straw-yellow with pale hilum; mottled with dark brown.

95723. No. 8088. Station no. 118. Medium size, straw-yellow with pale hilum.

95724. No. 8089. Station no. 119. Medium size, straw-yellow with pale hilum; slightly mottled.

95725. No. 8090. Station no. 120. Medium large, straw-to olive-yellow with pale hilum; slightly mottled.

95726. No. 8091. Station no. 121. Medium size, straw-yellow with pale hilum; slightly mottled.

95727. No. 8092. Station no. 122. Medium size, straw-to olive-yellow with pale hilum; slightly mottled.

95728. No. 8093. Station no. 123. Medium size, straw-yellow with pale hilum; heavily mottled with brown.

95729 to 95786. From the Chusei-Nando Prefecture.
95706 to 96383—Continued

95851. No. 8116. Station no. 146. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95852. No. 8117. Station no. 147. Medium size, green with black hilum; germ green; seed coat somewhat wrinkled and split.

95853. No. 8118. Station no. 148. Medium size, straw-yellow with pale hilum; mottled with brown.

95854. No. 8119. Station no. 149. Medium size, straw-yellow with pale hilum.

95855. No. 8120. Station no. 150. Medium size, straw- to olive-yellow with pale hilum.

95856. No. 8121. Station no. 151. Medium large, straw- to olive-yellow with pale hilum; slightly mottled with brown.

95857. No. 8122. Station no. 152. Medium size, straw-yellow with pale hilum; mottled with brown.

95858. No. 8123. Station no. 153. Medium large, straw-yellow with black hilum; mottled with black.

95859. No. 8124. Station no. 154. Medium size, straw-yellow with pale hilum; heavily mottled with brown.

95860. No. 8125. Station no. 155. Medium size, light straw-yellow with brown hilum; heavily mottled with brown.

95861. No. 8126. Station no. 156. Medium large, light straw-yellow with brown hilum.


95863. No. 8128. Station no. 158. Medium size, straw-yellow with light-brown hilum; slightly mottled.

95864. No. 8129. Station no. 159. Medium size, straw-yellow with pale hilum; mottled with brown.

95865. No. 8130. Station no. 160. Medium size, yellowish green with green germ and slate-black hilum.

95866. No. 8131. Station no. 161. Medium large, brown with network of white on each side.

95867 to 95889. From the Chusei-Hokudo Prefecture.

95867. No. 8132. Station no. 162. Medium size, straw-yellow with brown hilum; slightly mottled.

95868. No. 8133. Station no. 163. Medium large, straw-yellow with pale hilum; slightly mottled with brown; seed coat more or less wrinkled and cracked.

95869. No. 8134. Station no. 164. Medium large, straw- to olive-yellow with pale hilum; mottled with brown.

95870. No. 8135. Station no. 165. Medium size, straw- to olive-yellow with pale hilum.

95871. No. 8136. Station no. 166. Medium large, straw- to olive-yellow with pale hilum; mottled with brown.

95872. No. 8137. Station no. 167. Medium size, straw-yellow with pale hilum; slightly mottled with brown.


95874. No. 8139. Station no. 169. Medium size, straw-yellow with pale hilum; slightly mottled with brown.


95876. No. 8141. Station no. 171. Medium size, straw-yellow with pale hilum; mottled with brown.


95878. No. 8143. Station no. 173. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95879. No. 8144. Station no. 174. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95880. No. 8145. Station no. 175. Medium size, straw-yellow with pale hilum; slightly mottled with brown.


95882. No. 8147. Station no. 177. Medium large, straw- to olive-yellow, pale hilum; slightly mottled with brown.

95883. No. 8148. Station no. 178. Medium size, straw-yellow with pale hilum.

95884. No. 8149. Station no. 179. Medium size, straw-yellow with pale hilum; mottled with brown.

95885 and 95886. Medium size, straw-yellow with pale hilum.

95885. No. 8150. Station no. 180.

95886. No. 8151. Station no. 181.

95887. No. 8152. Station no. 182. Medium size, straw-yellow with pale hilum; mottled with brown.

95888 to 95892. Medium size, straw-yellow with pale hilum.

95888. No. 8153. Station no. 183.

95889. No. 8154. Station no. 184.

95890. No. 8155. Station no. 185.

95891. No. 8156. Station no. 186.

95892. No. 8157. Station no. 187.

95893 to 95895. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95893. No. 8158. Station no. 188.

95894. No. 8159. Station no. 189.

95895. No. 8160. Station no. 190.

95896. No. 8161. Station no. 191. Medium size, straw-yellow with pale hilum; affected some by purple spot.

95897 to 95899. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95897. No. 8162. Station no. 192.

95898. No. 8163. Station no. 193.
From the Kelkido Prefecture.

95900 to 95944. Station no. 194.

95945 to 96000. From the Kogendo Prefecture.

95901 and 95932. Station no. 195. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95931. Station no. 196. Station no. 202. Large size, straw-yellow with pale hilum; heavily mottled with brown.

95933 to 95952. Medium size, straw-yellow with pale hilum; mottled with brown.

95934. Station no. 197. Station no. 203. Medium size, straw-yellow with pale hilum; slightly mottled.

95935. Station no. 198. Station no. 204. Medium size, straw-yellow with pale hilum.

95936. No. 8200. Station no. 205. Medium size, straw-yellow with pale hilum; mottled with brown.


95938 to 95940. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

95939. No. 8202. Station no. 207. Station no. 208. Medium size, straw-yellow with pale hilum; mottled with brown.

95940. No. 8203. Station no. 209. Medium size, straw-yellow with pale hilum; mottled with brown.


95942. No. 8205. Station no. 211. Large size, straw-yellow with pale hilum; slightly mottled with brown.

95943. No. 8206. Station no. 212. Medium size, straw-yellow with pale hilum; mottled with brown.

95944. No. 8207. Station no. 213. Medium size, straw-yellow with pale hilum; mottled with brown.

95945. No. 8208. Station no. 214. Medium size, straw-yellow with pale hilum; mottled with brown.

95946. No. 8209. Station no. 215. Large size, straw-yellow with pale hilum; mottled with brown.

95947. No. 8210. Station no. 216. Large size, straw-yellow with pale hilum; slightly mottled with brown.

95948. No. 8211. Station no. 217. Station no. 218. Medium size, straw-yellow with pale hilum; mottled with brown.

95949. No. 8212. Station no. 219. Medium size, straw-yellow with pale hilum; heavily mottled with brown.

95950. No. 8213. Station no. 220. Medium size, straw-yellow with pale hilum; mottled with brown.

95951 and 95952. Medium large, straw-yellow with pale hilum; mottled with brown.

95953. No. 8214. Station no. 221. Medium size, straw-yellow with pale hilum; mottled with brown; slightly affected with purple spot.

95954. No. 8215. Station no. 222. Medium size, straw-yellow with pale hilum; mottled with brown.

95955. No. 8216. Station no. 223. Medium size, straw-yellow with pale hilum; mottled with brown.

95956. No. 8217. Station no. 224. Medium size, straw-yellow with pale hilum; slightly mottled with brown.
95706 to 96383—Continued

95706. No. 8219. Station no. 249. Medium large, straw-yellow with pale hilum; heavily mottled with brown.

95707. No. 8220. Station no. 250. Medium large, straw-yellow with pale hilum; mottled with brown.

95708. No. 8221. Station no. 251. Medium large, straw-yellow with brown hilum.

95709. No. 8222. Station no. 252. Medium large, straw-yellow with pale hilum; slightly mottled with brown.

95710. No. 8223. Station no. 253. Medium large, straw- to olive-yellow with pale hilum; slightly mottled with brown.

95711. No. 8224. Station no. 254. Medium large, straw-yellow with brown hilum; slightly mottled with brown.

95712. No. 8225. Station no. 255. Medium large, straw-yellow with brown hilum; heavily mottled with brown; seed coat more or less wrinkled and cracked.

95713. No. 8226. Station no. 256. Medium large, straw-yellow with brown hilum; heavily mottled with brown.

95714. No. 8227. Station no. 257. Medium large, straw-yellow with pale hilum; seed coat more or less wrinkled and split.

95715. No. 8228. Station no. 258. Medium large, straw-yellow with pale hilum; slightly mottled with brown; seed coat more or less wrinkled and cracked.

95716. No. 8229. Station no. 259. Medium large, straw- to olive-yellow with pale hilum; seed coat more or less wrinkled and split.

95717. No. 8230. Station no. 260. Medium large, straw-yellow with brown hilum; slightly mottled with brown.

95718. No. 8231. Station no. 261. Medium large, straw-yellow with pale hilum; seed coat wrinkled.

95719. No. 8232. Station no. 262. Medium large, straw-yellow with brown hilum; mottled with brown; seed coat more or less wrinkled.

95720. No. 8233. Station no. 263. Medium large, straw-yellow with brown hilum; seed coat more or less wrinkled and affected with purple spot.

95721. No. 8234. Station no. 264. Large size, straw-yellow with pale hilum; heavily mottled with brown; seed coat wrinkled.

95722. No. 8235. Station no. 265. Large size, straw-yellow with pale hilum; heavily mottled with brown and affected with purple spot.

95723. No. 8236. Station no. 266. Large size, straw-yellow with pale hilum; heavily mottled with brown; seed coat wrinkled and split.

95724. No. 8237. Station no. 267. Large size, straw-yellow with pale hilum; heavily mottled with brown; seed coat more or less wrinkled.

95725. No. 8238. Station no. 268. Medium large, straw-yellow with pale hilum; mottled with brown.

95726. No. 8239. Station no. 269. Medium large, straw-yellow with pale hilum; slightly mottled with brown; seed coat more or less wrinkled and split.

95727. No. 8240. Station no. 270. Medium large, straw-yellow with pale hilum; mottled with brown.

95728. No. 8241. Station no. 271. Large size, straw-yellow with pale hilum; heavily mottled with dark brown.

95729. No. 8242. Station no. 272. Large size, straw-yellow with pale hilum; heavily mottled with brown and affected with purple spot.

95730. No. 8243. Station no. 273. Large size, straw-yellow with pale hilum; seed coat wrinkled.

95731. No. 8244. Station no. 274. Medium large, straw-yellow with pale hilum; mottled with brown; seed coat more or less wrinkled and split.

95732. No. 8245. Station no. 275. Large size, straw-yellow with pale hilum; seed coat wrinkled and split.

95733. No. 8246. Station no. 276. Large size, straw-yellow with pale hilum; slightly mottled with brown; seed coat wrinkled and split.

95734. No. 8247. Station no. 277. Large size, straw-yellow with pale hilum; seed coat more or less wrinkled.

95735. No. 8248. Station no. 278. Large size, straw-yellow with pale hilum; heavily mottled with brown; seed coat more or less wrinkled.

95736. No. 8249. Station no. 279. Large size, straw-yellow with brown hilum; seed coat somewhat wrinkled and split.

95737. No. 8250. Station no. 280. Large size, straw-yellow with brown hilum; slightly mottled with brown.

95738. No. 8251. Station no. 281. Large size, straw-yellow with light-brown hilum; mottled with brown; seed coat heavily wrinkled and split.

95739. No. 8252. Station no. 282. Large size, straw-yellow with brown hilum; seed coat wrinkled and split.

95740. No. 8253. Station no. 283. Large size, straw-yellow with light-brown hilum; mottled with brown; seed coat wrinkled and split.


95742. No. 8255. Station no. 285. Large size, straw-yellow with brown hilum; seed coat slightly split.

95743. No. 8256. Station no. 286. Large size, straw-yellow with brown hilum; mottled and somewhat affected with purple spot.

95744. No. 8257. Station no. 287. Large size, straw-yellow with light-brown hilum; slightly mottled with brown.

95745. No. 8258. Station no. 288. Large size, straw-yellow with brown hilum; slightly wrinkled.

95746. No. 8259. Station no. 289. Large size, straw-yellow with brown hilum; mottled with brown.

95747. No. 8260. Station no. 290. Large size, straw-yellow with light-brown hilum; slightly mottled with brown; seed coat slightly wrinkled.
95706 to 96383—Continued

95996. No. 8261. Station no. 291. Medium large, straw-yellow with light-brown hilum; seed coat more or less wrinkled and split.

95997. No. 8262. Station no. 292. Large size, straw-yellow with brown hilum; seed coat more or less wrinkled and split.

95998 and 95999. Medium large, straw-yellow with pale hilum; seed coat more or less wrinkled; slightly mottled with brown.

95998. No. 8263.

95999. No. 8264.

96000. No. 8265. Station no. 295. Large size, straw-yellow with light-brown hilum; seed coat wrinkled and slightly mottled with brown.

96001 to 96004. From the Kokaibo Prefecture.

96001. No. 8266. Station no. 296. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96002 to 96004. Medium large, straw-yellow with pale hilum; slightly mottled with brown.

96002. No. 8267. Station no. 297.

96003. No. 8268. Station no. 298.

96004. No. 8269. Station no. 299.

96005. No. 8270. Station no. 300. Medium size, straw-yellow with pale hilum; mottled with brown.

96006. No. 8271. Station no. 301. Medium size, straw-yellow with pale hilum; slightly mottled with brown and affected with purple spot.


96008. No. 8273. Station no. 303. Medium size, straw-yellow with pale hilum.

96009. No. 8274. Station no. 304. Large size, straw-yellow with light-brown hilum; slightly wrinkled.

96010. No. 8275. Station no. 305. Medium large, straw-yellow with light-brown hilum; slightly mottled with brown.

96011. No. 8276. Station no. 306. Medium large, straw-yellow with light-brown hilum; slightly mottled with brown; seed coat slightly wrinkled.

96012. No. 8277. Station no. 307. Medium size, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

96013. No. 8278. Station no. 308. Medium large, straw-yellow with light-brown hilum; heavily mottled with brown.

96014. No. 8279. Station no. 309. Medium size, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

96015 and 96016. Medium large, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

96015. No. 8280. Station no. 310.

96016. No. 8281. Station no. 311.

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96017. No. 8282. Station no. 312. Medium large, straw-yellow with light-brown hilum; slightly mottled with brown.

96018. No. 8283. Station no. 313. Medium large, straw-yellow with light-brown hilum; seed coat slightly wrinkled and split.

96019. No. 8284. Station no. 314. Medium large, straw-yellow with brown hilum; seed coat slightly wrinkled.

96020. No. 8285. Station no. 315. Large size, straw-yellow with light-brown hilum; seed coat somewhat wrinkled and split.

96021. No. 8286. Station no. 316. Large size, straw-yellow with brown hilum; mottled with dark brown; seed coat wrinkled and split.

96022. No. 8287. Station no. 317. Large size, straw-yellow with brown hilum; slightly mottled with brown; seed coat badly wrinkled and split.

96023. No. 8288. Station no. 318. Large size, straw-yellow with light-brown hilum; seed coat wrinkled and split.

96024. No. 8289. Station no. 319. Large size, straw-yellow with brown hilum; heavily mottled with brown; seed coat badly wrinkled and split.

96025. No. 8290. Station no. 320. Large size, straw-yellow with light-brown hilum; slightly mottled with brown; seed coat wrinkled and split.

96026. No. 8291. Station no. 321. Medium size, straw-yellow with brown hilum; slightly mottled with brown; seed coat slightly wrinkled and split.

96027. No. 8292. Station no. 322. Medium size, straw-yellow with dark-brown hilum; mottled with dark brown.

96028. No. 8293. Station no. 323. Medium large, straw-yellow with brown hilum; slightly mottled with brown.

96029. No. 8294. Station no. 324. Medium size, straw-yellow with brown hilum; slightly mottled with brown; seed coat slightly wrinkled and split.

96030. No. 8295. Station no. 325. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

96031 to 96034. Medium size, straw-yellow with brown hilum; slightly mottled with brown.


96032. No. 8297. Station no. 327.

96033. No. 8298. Station no. 328.

96034. No. 8299. Station no. 329.

96035. No. 8300. Station no. 330. Medium size, straw-yellow with brown hilum; mottled with brown.

96036. No. 8301. Station no. 331. Medium size, straw-yellow with brown hilum; mottled with brown.

96037. No. 8302. Station no. 332. Medium size, straw-yellow with brown hilum; mottled with brown; seed coat slightly wrinkled and split.
96038. No. 8303. Station no. 333. Medium large, straw-yellow with light-brown hilum; seed coat wrinkled and split.

96039. No. 8304. Station no. 334. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96040. No. 8305. Station no. 335. Large size, straw-yellow with light-brown hilum; slightly mottled with brown; slightly wrinkled.

96041. No. 8306. Station no. 336. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96042. No. 8307. Station no. 337. Medium size, straw-yellow with pale hilum.

96045 to 96094. From the Heian-Nando Prefecture.

96045. No. 8310. Station no. 340. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96046. No. 8311. Station no. 341. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

96047. No. 8312. Station no. 342. Medium size, straw-yellow with pale hilum; mottled with brown.

96048. No. 8313. Station no. 343. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

96049. No. 8314. Station no. 344. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96050. No. 8315. Station no. 345. Medium size, straw-yellow with pale hilum.

96051. No. 8316. Station no. 346. Medium size, straw-yellow with pale hilum; slightly mottled with brown; seed coat slightly wrinkled and split.

96052. No. 8317. Station no. 347. Medium size, straw-yellow with pale hilum; mottled with brown.


96054. No. 8319. Station no. 349. Large size, straw-yellow with pale hilum; mottled with brown; seed coat wrinkled and split.

96055. No. 8320. Station no. 350. Large size, straw-yellow with light-brown hilum; slightly affected with purple spot; seed coat badly wrinkled and split.

96056. No. 8321. Station no. 351. Medium size, straw-yellow with pale hilum.

96057 and 96058. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96057. No. 8322. Station no. 352.

96058. No. 8323. Station no. 353.

96059. No. 8324. Station no. 354. Medium large, straw-yellow with pale hilum; slightly mottled with brown; slightly wrinkled and split.

96060. No. 8325. Station no. 355. Medium large, straw-yellow with light-brown hilum; badly wrinkled and split; slightly mottled with brown.

96061. No. 8326. Station no. 356. Large size, straw-yellow with light-brown hilum; slightly mottled with brown.

96062. No. 8327. Station no. 357. Large size, straw-yellow with light-brown hilum.

96063. No. 8328. Station no. 358. Medium large, straw-yellow with light-brown hilum; seed coat slightly wrinkled.

96064 and 96065. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96064. No. 8329. Station no. 359.

96065. No. 8330. Station no. 360.

96066. No. 8331. Station no. 361. Medium large, straw-yellow with brown hilum; slightly mottled with brown.

96067. No. 8332. Station no. 362. Large size, straw-yellow with brown hilum; slightly mottled with brown; slightly mottled with brown; seed coat wrinkled and split.

96068. No. 8333. Station no. 363. Medium large, straw-yellow with pale hilum; mottled with brown; slightly mottled with brown.

96069. No. 8334. Station no. 364. Large size, straw-yellow with light-brown hilum; slightly mottled with brown; seed coat wrinkled and split.

96070. No. 8335. Station no. 365. Medium large, straw-yellow with dark-brown hilum; heavily mottled with dark brown; seed coat badly split.

96071. No. 8336. Station no. 366. Medium size, straw-yellow with light-brown hilum.


96073 and 96074. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96073. No. 8338. Station no. 368.

96074. No. 8339. Station no. 369.

96075. No. 8340. Station no. 370. Medium size, straw-yellow with light-brown hilum; mottled with brown.

96076. No. 8341. Station no. 371. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96077. No. 8342. Station no. 372. Medium size, straw-yellow with pale hilum; mottled with brown.

96078. No. 8343. Station no. 373. Medium size, straw-yellow with pale hilum; slightly mottled with brown; somewhat wrinkled.

95706 to 96383—Continued

96080. No. 8345. Station no. 375. Medium size, straw-yellow with light-brown hilum; slightly wrinkled.

96081 to 96084. Medium sized, straw-yellow with pale hilum; slightly mottled with brown.

96081. No. 8346. Station no. 376.

96082. No. 8347. Station no. 377.

96083. No. 8348. Station no. 378.

96084. No. 8349. Station no. 379.

96085. No. 8350. Station no. 380. Medium size, straw-yellow with light-brown hilum; slightly mottled with brown.

96086. No. 8351. Station no. 381. Medium size, straw-yellow with pale hilum; mottled with brown.

96087. No. 8352. Station no. 382. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

96088. No. 8353. Station no. 383. Medium size, straw-yellow with brown hilum; seed coat badly wrinkled and split.

96089. No. 8354. Station no. 384. Medium size, straw-yellow with light-brown hilum; slightly mottled with brown; seed coat slightly split.

96090. No. 8355. Station no. 385. Medium size, straw-yellow with pale hilum; slightly affected with purple spot.

96091. No. 8356. Station no. 386. Large, straw- to olive-yellow with light-brown hilum; slightly mottled with brown; seed coat slightly split.

96092. No. 8357. Station no. 387. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96093. No. 8358. Station no. 388. Medium size, straw-yellow with light-brown hilum; slightly mottled with brown.

96094. No. 8359. Station no. 389. Medium large, straw-yellow with brown hilum; badly mottled with brown; seed coat split.

96095 to 96126. From the Heian-Hokudo Prefecture.

96095. No. 8360. Station no. 390. Medium size, straw-yellow with brown hilum; mottled with brown.

96096. No. 8361. Station no. 391. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96097. No. 8362. Station no. 392. Medium large, straw-yellow with light-brown hilum; mottled with brown; wrinkled and split.

96098. No. 8363. Station no. 393. Medium large, straw-yellow with pale hilum; wrinkled and split.

96099. No. 8364. Station no. 394. Medium large, straw-yellow with brown hilum; mottled with brown; seed coat wrinkled and split.

96100. No. 8365. Station no. 395. Medium large, straw-yellow with pale hilum; mottled with brown.

96101. No. 8366. Station no. 396. Medium size, straw-yellow with pale hilum; mottled with brown; seed coat wrinkled.

95706 to 96383—Continued

96102. No. 8367. Station no. 397. Medium size, straw-yellow with light-brown hilum; heavily mottled with dark brown.

96103. No. 8368. Station no. 398. Medium sized, straw-yellow with light-brown hilum; mottled with brown; seed coat wrinkled and split.

96104. No. 8369. Station no. 399. Medium size, straw-yellow with pale hilum; badly mottled with brown; seed coat somewhat split.

96105. No. 8370. Station no. 400. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96106. No. 8371. Station no. 401. Medium size, straw-yellow with pale hilum.

96107. No. 8372. Station no. 402. Medium large, straw-yellow with dark-brown hilum; badly mottled with brown; seed coat split.

96108. No. 8373. Station no. 403. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96109. No. 8374. Station no. 404. Medium large, straw-yellow with pale hilum; slightly mottled with brown.

96110. No. 8375. Station no. 405. Medium size, straw-yellow with pale hilum; mottled with brown.

96111. No. 8376. Station no. 406. Medium size, straw-yellow with brown hilum; mottled with brown; seed coat somewhat split.

96112. No. 8377. Station no. 407. Medium large, straw- to olive-yellow with light-brown hilum; mottled with brown; seed coat split.

96113. No. 8378. Station no. 408. Medium size, straw-yellow with brown hilum; mottled with brown and black.

96114. No. 8379. Station no. 409. Large size, straw-yellow with light-brown hilum; heavily mottled with brown; seed coat split.

96115. No. 8380. Station no. 410. Medium large, straw- to olive-yellow with light brown hilum; seed coat somewhat split.

96116. No. 8381. Station no. 411. Medium size, straw-yellow with pale hilum; heavily mottled with dark brown.

96117. No. 8382. Station no. 412. Medium size, light straw-yellow with pale hilum; seed coat somewhat wrinkled.

96118. No. 8383. Station no. 413. Medium size, straw-yellow with pale hilum.

96119. No. 8384. Station no. 414. Medium large, light straw-yellow with pale hilum.

96120. No. 8385. Station no. 415. Medium size, straw-yellow with brown hilum; heavily mottled with brown.

96121. No. 8386. Station no. 416. Medium large, straw-yellow with pale hilum; slightly mottled with brown; seed coat split.

96122. No. 8387. Station no. 417. Medium size, straw-yellow with pale hilum; slightly mottled with brown.
PLANT MATERIAL INTRODUCED

95706 to 96383—Continued

96123. No. 8388. Station no. 418. Large size, straw-yellow with pale hilum; slightly mottled with brown; seed coat split; affected with purple spot.

96124. No. 8389. Station no. 419. Medium large, straw-yellow with pale hilum; seed coat split.

96125. No. 8390. Station no. 420. Medium large, straw-yellow with pale hilum; seed coat split in fine network on sides.

96126. No. 8391. Station no. 421. Medium large, straw-yellow with pale hilum; slightly mottled with brown.

96127 to 96156. From the Kankyo-Nando Prefecture.

96127. No. 8392. Station no. 422. Medium large, straw-yellow with pale hilum; heavily mottled with brown; seed coat wrinkled and split.

96138. No. 8393. Station no. 423. Medium large, straw-yellow with pale hilum; seed coat split.


96140. No. 8395. Station no. 425. Medium size, straw-yellow with pale hilum; heavily mottled with brown.

96157 to 96187. From the Kankyo-Hokudo Prefecture.

96157. No. 8422. Station no. 452. Medium size, straw-yellow with pale hilum; slightly mottled with brown; seed coat split.

96158. No. 8423. Station no. 453. Large size, straw-yellow with pale hilum; seed coat somewhat split.

96159. No. 8424. Station no. 454. Medium large, straw-yellow with pale hilum; slightly mottled with brown; some purple spot; seed coat split.

96160. No. 8425. Station no. 455. Medium large, straw-yellow with pale hilum; seed coat split into fine network on sides.

96161. No. 8426. Station no. 456. Medium size, straw-yellow with pale hilum; seed coat split.

96162 and 96163. Straw-yellow with light-brown hilum; slightly mottled with brown; affected with purple spot.


96165. No. 8410. Station no. 440. Seed coat split.

95706 to 96383—Continued

96146. No. 8411. Station no. 441. Medium large, straw-yellow with brown hilum; heavily mottled with brown; seed coat split.

96147. No. 8412. Station no. 442. Medium large, straw-yellow with brown hilum; heavily mottled with brown; seed coat split.

96148. No. 8413. Station no. 443. Medium large, straw-yellow with brown hilum; heavily mottled with brown; seed coat split.

96149. No. 8414. Station no. 444. Medium size, straw-yellow with brown hilum; heavily mottled with brown.

96150. No. 8415. Station no. 445. Medium large, straw-yellow with pale hilum; mottled with brown; seed coat split.

96151. No. 8416. Station no. 446. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96152. No. 8417. Station no. 447. Medium size, straw-yellow with pale hilum; seed coat split.

96153. No. 8418. Station no. 448. Medium size, straw-yellow with pale hilum; seed coat slightly split.

96154. No. 8419. Station no. 449. Medium size, straw-yellow with pale hilum; heavily mottled with brown; seed coat badly split; some purple spot.

96155. No. 8420. Station no. 450. Olive-yellow with pale hilum; some mottling with brown; seed coat split.

96156. No. 8421. Station no. 451. Medium large, straw-yellow with brown hilum; slightly mottled with brown; seed coat split.

96157 to 96187. From the Kankyo-Hokudo Prefecture.

96157. No. 8422. Station no. 452. Medium size, straw-yellow with pale hilum; slightly mottled with brown; seed coat split.

96158. No. 8423. Station no. 453. Large size, straw-yellow with pale hilum; seed coat somewhat split.

96159. No. 8424. Station no. 454. Medium large, straw-yellow with pale hilum; heavily mottled with brown; some purple spot; seed coat split.

96160. No. 8425. Station no. 455. Medium large, straw-yellow with pale hilum; seed coat split into fine network on sides.

96161. No. 8426. Station no. 456. Medium size, straw-yellow with pale hilum; seed coat split.

96162 and 96163. Straw-yellow with light-brown hilum; slightly mottled with brown; affected with purple spot.

96164. No. 8429. Station no. 459. Medium size, straw-yellow with brown hilum; slightly mottled with brown; seed coat split.

96165 and 96166. Medium size, straw-yellow with pale hilum.

96165. No. 8430. Station no. 460.
95706 to 96383—Continued

96166. No. 8431. Station no. 461. Seed coat split.

96167 and 96168. Medium size, straw-yellow, heavily mottled with brown, seed coat split.


96168. No. 8433. Station no. 463. Pale hilum, seed coat split, some purple spot.

96169 and 96170. Medium size, straw-yellow with pale hilum.

96169. No. 8434. Station no. 464. Slightly mottled with brown.

96170. No. 8435. Station no. 465. Seed coat wrinkled and split.

96171. No. 8436. Station no. 466. Medium large, straw-yellow with pale hilum; slightly mottled with brown; seed coat badly split.

96172 to 96174. Large size, straw-yellow with pale hilum.

96172. No. 8437. Station no. 467. Slightly mottled with brown, seed coat split.

96173. No. 8438. Station no. 468. Seed coat split, some purple spot.

96174. No. 8439. Station no. 469. Slightly mottled with brown, seed coat badly split.

96175 to 96180. Medium size, straw-yellow with pale hilum.

96175. No. 8440. Station no. 470. Slightly mottled with brown, seed coat split.

96176. No. 8441. Station no. 471. Heavily mottled with brown, seed coat split.

96177. No. 8442. Station no. 472. Slightly mottled with brown, seed coat much split.

96178. No. 8443. Station no. 473. Slightly mottled with brown, seed coat slightly split.

96179. No. 8444. Station no. 474. Seed coat badly split.

96180. No. 8445. Station no. 475. Slightly mottled with dark brown.

96181. No. 8446. Station no. 476. Medium size, olive-yellow with pale hilum; heavily mottled with brown; some purple spot; seed coat split.

96182 to 96185. Medium size, olive-yellow with pale hilum.

96182. No. 8447. Station no. 477. Seed coat slightly split.

96183. No. 8448. Station no. 478. Mottled with brown.

96184. No. 8449. Station no. 479. Heavily mottled with brown, seed coat split.

96185. No. 8450. Station no. 480. Heavily mottled with brown, seed coat split.

96186. No. 8451. Station no. 481. Medium large, straw-yellow with pale hilum; seed coat slightly split.

96187. No. 8452. Station no. 482. Medium size, straw-yellow with pale hilum; seed coat split.

96188 and 96202. From the Chinese Eastern Railway Agricultural Experiment Station, Echo, Manchuria.

96188 and 96189. Black with green germ.


96189. No. 8454. Station no. 484. Medium size.


96191 to 96193. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96191. No. 8456. Station no. 486.

96192. No. 8457. Station no. 487.

96193. No. 8458. Station no. 488. Seed coat split; purple spot.

96194. No. 8459. Station no. 489. Medium size, straw-yellow with black hilum and black markings about the seed scar.

96195 and 96196. Straw-yellow with slate black hilum.


96196. No. 8461. Station no. 491. Medium size.

96197. No. 8462. Station no. 492. Medium size, straw-yellow with black hilum; some purple spot.

96198. No. 8463. Station no. 493. Medium size, straw to olive-yellow with pale hilum; heavily mottled with dark brown.

96199. No. 8464. Station no. 494. Medium size, straw-yellow with brown hilum; heavily mottled with brown; some purple spot.

96200 and 96201. Medium small, straw-yellow with black hilum.

96200. No. 8465. Station no. 495. Some purple spot.

96201. No. 8466. Station no. 496.

96202. No. 8467. Station no. 497. Medium size, straw-yellow with pale hilum; heavily mottled with brown.

96203 to 96383. From the Kankyo-Hokudo Prefecture.

96203 and 96204. Medium size, olive with black hilum; heavily mottled with black.

96203. No. 8468. Station no. 498.

96204. No. 8469. Station no. 499.

96205 and 96206. Medium large, olive with pale hilum; heavily mottled with black.

96205. No. 8470. Station no. 500. Seed coat somewhat wrinkled.

96206. No. 8471. Station no. 501.

96207. No. 8472. Station no. 502. Medium large, black with yellow germ; seed more or less flattened.

96208. No. 8473. Station no. 503. Medium size, olive with pale hilum; heavily mottled with black.

96209. No. 8474. Station no. 504. Medium size, bicolor (straw-yellow with black saddle).

96210 and 96211. Olive with pale hilum; heavily mottled with black.
95706 to 96383—Continued

96210. No. 8475. Station no. 505. Large size.

96211. No. 8476. Station no. 506. Medium size.

96212 to 96216. Medium size, olive with black hilum; heavily mottled with black.

96212. No. 8477. Station no. 507.

96213. No. 8478. Station no. 508.

96214. No. 8479. Station no. 509.

96215. No. 8480. Station no. 510.

96216. No. 8481. Station no. 511.

96217 to 96219. Medium size, black with yellow germ.

96217. No. 8482. Station no. 512.

96218. No. 8483. Station no. 513.

96219. No. 8484. Station no. 514.

96220 and 96221. Medium size, olive with black hilum; heavily mottled with black.

96220. No. 8485. Station no. 515.

96221. No. 8486. Station no. 516.

96222. No. 8487. Station no. 517. Medium size, black with yellow germ.

96223 to 96226. Medium size, olive, heavily mottled with black.

96223. No. 8488. Station no. 518.

96224. No. 8489. Station no. 519.

96225. No. 8490. Station no. 520.

96226. No. 8491. Station no. 521.

96227. No. 8492. Station no. 522. Large size, black and olive with yellow germ and seed coat more or less split.

96228 and 96229. Medium size, olive with black hilum; heavily mottled with black.

96228. No. 8493. Station no. 523.

96229. No. 8494. Station no. 524.

96230. No. 8495. Station no. 525. Medium size, olive, heavily mottled with black and brown.

96231. No. 8496. Station no. 526. Medium large, olive, with black and brown mottling.

96232 to 96234. Medium size, black and brown with black arranged in concentric rings. Slightly flattened.

96232. No. 8497. Station no. 527.

96233. No. 8498. Station no. 528.

96234. No. 8499. Station no. 529.

96235. No. 8500. Station no. 530. Medium size, black and brown.

96236 to 96242. Medium size, black and brown. Black concentric rings.

96236. No. 8501. Station no. 531.

96237. No. 8502. Station no. 532.

96238. No. 8503. Station no. 533.

96239. No. 8504. Station no. 534.

96240. No. 8505. Station no. 535.

96241. No. 8506. Station no. 536.

96242. No. 8507. Station no. 537.

96243. No. 8508. Station no. 538. Medium size, brown with brown hilum.


96244. No. 8509. Station no. 539. Medium size.

96245. No. 8510. Station no. 540. Medium large.

96246. No. 8511. Station no. 541. Medium size.

96247. No. 8512. Station no. 542. Medium size.

96248. No. 8513. Station no. 543. Medium size.

96249. No. 8514. Station no. 544. Medium size, brown, slightly mottled with black.

96250. No. 8515. Station no. 545. Medium large, dark brown, slightly mottled with black.

96251 to 96256. Black and brown. Black arranged in concentric rings.

96251. No. 8516. Station no. 546. Medium size.

96252. No. 8517. Station no. 547. Medium small.

96253. No. 8518. Station no. 548. Medium size.

96254. No. 8519. Station no. 549. Medium size.


96256. No. 8521. Station no. 551. Medium small.

96257. No. 8522. Station no. 552. Medium size, straw-yellow with brown hilum; mottled with dark brown.

96258 and 96259. Medium size, straw-yellow; mottled with brown and black. Black in concentric rings.

96258. No. 8523. Station no. 553.

96259. No. 8524. Station no. 554.

96260. No. 8525. Station no. 555. Medium size, straw-yellow, mottled with brown and black.

96261. No. 8526. Station no. 556. Medium size, straw-yellow, heavily mottled with black and brown.

96262. No. 8527. Station no. 557. Medium large, straw-yellow with large patches of black about the hilum; seed coat split to a considerable extent.

96263. No. 8528. Station no. 558. Medium large, black with olive-yellow saddle; somewhat flattened.

96264. No. 8529. Station no. 559. Medium large, black with slight olive-yellow saddle; much flattened.

96265. No. 8530. Station no. 560. Medium size, black with olive saddle; slightly flattened.

96266 and 96267. Medium large, black with olive-yellow markings; slightly flattened.

96266. No. 8531. Station no. 561.

96267. No. 8532. Station no. 562.

96268. No. 8533. Station no. 563. Medium large, brown, slightly flattened.
96289. No. 8534. No. 564. Medium large, black with straw-yellow saddle; much flattened.

96289 to 96292. Large size, olive-yellow with black hilum; slightly mottled with brown and black.

96290. No. 8535. Station no. 565.

96291. No. 8536. Station no. 566.

96292. No. 8537. Station no. 567.

96293 and 96294. Medium size, olive-yellow with black hilum.

96293. No. 8538. Station no. 568.

96294. No. 8539. Station no. 569.

96295. No. 8540. Station no. 570. Medium large, olive with black hilum; slightly mottled with dark brown.

96296. No. 8541. Station no. 571. Medium small, olive-yellow with black hilum; heavily mottled with black.

96297. No. 8542. Station no. 572. Medium size, olive-yellow with brown hilum; mottled with brown.

96298. No. 8543. Station no. 573. Large size, olive-yellow with brown hilum; seed coat somewhat split.

96299 to 96301. Olive yellow with brown hilum; slightly mottled with brown.

96299. No. 8544. Station no. 574. Large size; hilum large.

96300. No. 8545. Station no. 575. Medium small.

96301. No. 8546. Station no. 576. Medium size.

96302. No. 8547. Station no. 577. Small size, olive-yellow with brown hilum; much flattened.

96303 to 96304. Olive-yellow with brown hilum; slightly mottled with brown.

96303. No. 8548. Station no. 578. Medium size.


96305. No. 8550. Station no. 580. Medium size, seed coat more or less split.


96307. No. 8552. Station no. 582. Medium small.

96308. No. 8553. Station no. 583. Medium size.

96309. No. 8554. Station no. 584. Medium size.

96310. No. 8555. Station no. 585. Medium size, seed coat more or less split.

96311. No. 8556. Station no. 586. Medium size.

96312. No. 8557. Station no. 587. Medium small.


96314. No. 8559. Station no. 589. Medium small.

96315. No. 8560. Station no. 590. Medium large, straw-to olive-yellow with brown hilum; slightly mottled with brown.

96316. No. 8561. Station no. 591. Medium size, straw-yellow with brown hilum; slightly mottled with brown; seed coat more or less split.

96317. No. 8562. Station no. 592. Medium size, straw-to olive-yellow with brown hilum.

96318 to 96320. Medium size, olive-yellow with brown hilum; mottled with brown.

96319. No. 8563. Station no. 593.

96320. No. 8564. Station no. 594.

96321. No. 8565. Station no. 595.

96322. No. 8566. Station no. 596. Large size, olive-yellow with pale hilum; mottled with brown; seed coat slightly split.

96323. No. 8567. Station no. 597. Medium large, olive-yellow with pale hilum; mottled with brown.

96324. No. 8568. Station no. 598. Medium large, olive-yellow with pale hilum; mottled with brown and black.

96325. No. 8569. Station no. 599. Medium size, olive-yellow with pale hilum.

96326 and 96327. Medium size, straw-to olive-yellow with pale hilum; mottled with brown; seed coat more or less split.

96327. No. 8570. Station no. 600. Heavily mottled.

96328. No. 8571. Station no. 601. Slightly mottled.

96329. No. 8572. Station no. 602. Medium size, seed coat more or less split.

96330. No. 8573. Station no. 603. Medium large, slightly mottled.

96331. No. 8574. Station no. 604. Medium size, straw-to olive-yellow with pale hilum.

96332. No. 8575. Station no. 605. Medium size, straw-to olive-yellow; mottled with brown; seed coat more or less split.

96333. No. 8576. Station no. 606. Medium size, olive-yellow with pale hilum; heavily mottled with brown; seed coat more or less split.

96334. No. 8577. Station no. 607. Straw-to olive-yellow with pale hilum.

96335. No. 8578. Station no. 608. Medium large.

96336. No. 8579. Station no. 609. Medium size, olive-yellow with pale hilum; mottled with dark brown.

96337. No. 8580. Station no. 610. Medium size, straw-yellow with pale hilum; mottled with brown.

96338. No. 8581. Station no. 611. Medium large, olive-yellow with pale hilum; slightly mottled with brown.
95706 to 96383—Continued

96317 and 96318. Medium size, olive-yellow with pale hilum; mottled with dark brown.
96317. No. 8582. Station no. 612.
96318. No. 8583. Station no. 613.

96319 and 96320. Olive-yellow with pale hilum; mottled with brown.
96319. No. 8584. Station no. 614. Medium size.
96320. No. 8585. Station no. 615. Medium small.

96321. No. 8586. Station no. 616. Medium size, straw- to olive-yellow with pale hilum; mottled with brown.

96322 and 96323. Black with green germ.
96322. No. 8587. Station no. 617. Medium small.

96324. No. 8588. Station no. 618. Medium size.

96325 to 96328. Medium size, green with brown hilum and green germ; mottled with brown; seed coat split.
96325. No. 8590. Station no. 620. Seed coat split.
96326. No. 8591. Station no. 621.
96327. No. 8592. Station no. 622. Slightly flattened.
96328. No. 8593. Station no. 623.

96329. No. 8594. Station no. 624. Medium small, straw-yellow with pale hilum; heavily mottled with brown.
96330. No. 8595. Station no. 625. Medium size, green with pale hilum and green germ; slightly mottled with brown.

96331 and 96332. Medium size, green with brown hilum; slightly mottled with brown.
96331. No. 8596. Station no. 626.
96332. No. 8597. Station no. 627.

96333 and 96334. Medium size, green with pale hilum and green germ.
96333. No. 8598. Station no. 628.
96334. No. 8599. Station no. 629. Slightly mottled with brown, seed coat more or less split.

96335 to 96337. Black with yellow germ.
96335. No. 8600. Station no. 630. Medium size.
96336. No. 8601. Station no. 631. Medium small, slightly flattened.
96337. No. 8602. Station no. 632. Medium size, slightly flattened.

96338. No. 8603. Station no. 633. Medium size, straw- to olive-yellow with pale hilum; slightly mottled with brown.

96339 to 96341. Black with yellow germ,
96339. No. 8604. Station no. 634. Medium size, slightly flattened.

96340. No. 8605. Station no. 635. Medium small.
96341. No. 8606. Station no. 636. Medium small.
96342. No. 8607. Station no. 637. Medium size, slightly flattened.

96345. No. 8610. Station no. 640. Medium size, slightly flattened.
96346. No. 8611. Station no. 641. Medium size.
96347. No. 8612. Station no. 642. Small, slightly flattened.
96348. No. 8613. Station no. 643. Medium small.

96350. No. 8615. Station no. 645. Medium size, slightly flattened.
96351. No. 8616. Station no. 646. Medium size, green with brown hilum and green germ.

96352. No. 8617. Station no. 647. Medium small, black with yellow germ; slightly flattened.

96353 to 96356. Medium size, black with yellow germ.
96353. No. 8618. Station no. 648. Slightly flattened.
96354. No. 8619. Station no. 649. Much flattened.
96355. No. 8620. Station no. 650. Slightly flattened.

96356. No. 8621. Station no. 651.
96357. No. 8622. Station no. 652. Medium size, reddish brown.
96358. No. 8623. Station no. 653. Medium size, brown.

96359. No. 8624. Station no. 654. Medium large, straw-yellow with pale hilum; heavily mottled with brown.
96360. No. 8625. Station no. 655. Medium large, olive-yellow with pale hilum; heavily mottled with brown.

96361. No. 8626. Station no. 656. Medium large, black with yellow germ.

96362 to 96364. Medium size, olive-yellow with brown hilum; mottled with brown.
96362. No. 8627. Station no. 657.
96363. No. 8628. Station no. 658.
96364. No. 8629. Station no. 659.

96365. No. 8630. Station no. 660. Medium large, black with yellow germ.
96366. No. 8631. Station no. 661. Medium size, olive-yellow with brown hilum; slightly mottled with brown.

96367. No. 8632. Station no. 662. Medium size, straw- to olive-yellow with brown hilum; slightly mottled with brown.

96368. No. 8633. Station no. 663. Medium small, straw-yellow with brown hilum.
96370 to 96383—Continued

96370. No. 8634. Station no. 664. Medium size, olive-yellow with pale hilum.

96371. Medium size, straw-to olive-yellow with pale hilum; slightly mottled with brown.

96370. No. 8635. Station no. 665.

96371. No. 8636. Station no. 666.

96372. No. 8637. Station no. 667. Medium large, brown and black.

96373. No. 8638. Station no. 668. Medium size, straw-yellow with black hilum; heavily mottled with brown.

96374 and 96375. Medium size, straw-yellow with brown hilum.

96374. No. 8639. Station no. 669.

96375. No. 8640. Station no. 670.

Nearly round.

96376. No. 8641. Station no. 671. Medium size, light straw-yellow with dark-brown hilum; seed coat badly split.

96377. No. 8642. Station no. 672. Medium size, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

96378. No. 8643. Station no. 673. Medium small, straw-yellow with very dark-brown hilum; mottled with brown.

96379 to 96381. Medium size, straw-yellow with brown hilum; heavily mottled with brown.

96379. No. 8644. Station no. 674.

96380. No. 8645. Station no. 675.

96381. No. 8646. Station no. 676.

96382 and 96383. Straw-yellow with brown hilum; very heavily mottled with dark brown.

96382. No. 8647. Station no. 677.

96383. No. 8648. Station no. 678.

96384 to 96389.

From India. Seeds presented by W. O'Brien, Hyderabad, Deccan. Received January 28, 1932.

96384. ANNONA SQUAMOSA L. Annonaceae. Sugar-apple.

Sitapal. A wild form of the sugar-apple found on trap formation at Hyderabad, Deccan. The fruiting season is two months, from October to December, in India.

96385. BRASSICA OLERACEA BOTRYTIS L. Brassicaceae. Cauliflower.

A form acclimatized at Darjeeling Hills which grows better than English seed from the plains.

96386. CARICA CANDAMARCENSIS Hook. f. Papayaceae. Hill papaw. Collected on the Nilgiri Hills, southern India, between 6,000 and 7,000 feet altitude.

For previous introduction see 66651.

96387. CARICA PAPAYA L. Papayaceae. Papaya.

Mixed varieties.

96384 to 96389—Continued

96388. BASSELLA RUBRA L. Basellaceae. Malabar nightshade. A succulent herbaceous freely branched climber, native to Bengal, and cultivated throughout India. The juice of the leaves is used in native medicine for catarhal affections and the leaves and stems are used as a potherb as we use spinach.

For previous introduction see 74555.

96389. SOLANUM MELONGENA L. Solanaceae. Eggplant. A large round green eggplant whose fruits weighed up to 4 pounds.


9640 to 96404. Varieties cultivated in the Experiment Station at Ayabe, Kyoto Fu, January 26, 1928.

9640. Nos. 418 and 419. Sho-gwatsu. Nuts ripen early in October; not considered a good variety.

9641. Nos. 422 and 423. Shimokatsu (small). Nuts ripen after the middle of October; a very good quality.


9643. Nos. 432 and 433. Nishigaki. Nuts ripen the first of October; not a very good variety.


9645. Nos. 454 and 455. Futakura. Nuts ripen the middle of October; a medium good variety.

9646. Nos. 456 and 457. Kenapa. Nuts ripen before the middle of October; very good quality, one of the best.

9647. Nos. 458 and 459. Honjo. Nuts ripen the first of October; one of the very best varieties.

9648. Nos. 460 and 461. Waso. Nuts ripen after the middle of October; a very good variety.


9650. Nos. 468 and 469. Heiso. Nuts ripen the first of October; quite a good variety.


9652. Nos. 488 and 489. Sobadan. Nuts ripen toward the end of September; not a very good variety.

9653. Nos. 488 and 489. Kamadamiwase. Nuts ripen the middle of September; not a good variety.

PLANT MATERIAL INTRODUCED

96390 to 96420—Continued


96406 to 96414. Cultivated varieties obtained at the Okitsu Agricultural Experiment Station, February 6, 1932.


96409. No. 623. Tanabata. Nuts ripen the latter half of August.

96410. No. 629. Ogawmigo. Tree has not fruited at the experiment station.


96412. No. 634. TaisTwwase. Nuts ripen late in August or early in September.


96415. No. 667. Genko. Collected February 23, 1928, at Kasagi, Kyoto Fu, in the orchard of Mr. Kita, from an orchard where 8,000 chestnut trees were planted and in two years all but 100 died. This tree has no Endothia on it and may be resistant. Genko is a renaming of the variety O-Tamba, which means almost any large chestnut from Tamba.

96416. No. 670. Kumagakura. Collected from a nearby nursery February 24, 1928 and sent in by Hainichi Kudo, of the Tomoni Experiment Station, Yamaguchi ken.

96417. No. 671. Kasaharawase. From the Gifu Ken Agricultural Experiment Station, February 20, 1928.

96418 to 96420. Cultivated varieties sent in February 1928 by Shigewa Hayashi, Yamaguchi ken, Kuga Gun, Sakwe Mura.

96418. No. 672. Higian.

96419. No. 673. Toyotama.


96421. PISTACIA VERA L. Anacardiaceae. Pistache.


96422 to 96472—Continued

96422. Aboid. From Tunisia.

96423. Constantini. From Tunisia.

96424. Mohevonne. From France.

96425. Tournefort. From France.

96426. Zoaf. From Tunisia.

96427. F. 1.

96428. F. 2.

96429. L.

96430. L. L.


96431. Amarilla de calenda.

96432. Bienvenido.

96433. Campiel amarillo.

96434. De Calente.

96435. De Sartaga.

96436. Reus.

96437. Roja de Segorbino.

96438. Selecta del Príncipe del Junio.

96439. Ficus CARICA L. Moraceae. Common fig.


96440. De la Rosa. From Spain.

96441. Douce de Sfax. From Tunisia.

96442. Fornorino. From Tunisia.

96443. Mekhi. From Tunisia.

96444. OLEA EUROPAEA L. Oleaceae. Common olive.

96445 to 96455. PRUNUS ARMENIACA L. Amygdalaceae. Apricot. Nos. 96445 to 96448 were originally from Spain.

96445. Bullida.

96446. Canino.

96447. Carnesola.

96448. De Anton.

96449. De Portugal. From Portugal. Nos. 96450 to 96455 were originally from Spain.

96450. Gala Rocha.

96451. Giletan.

96452. Patisarca.

96453. Primerizo.

96454. Real fino.

96455. Rouge Hatif.

96456 to 96459. PRUNUS spp. Amygdalaceae. Plum.

96456. Prunus sp.

96457. Prunus sp.

De San Juan. From Spain.
From the West Indies. Seeds collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931–32 Allison V. Armour expedition. Received February 2, 1932.

No. 2607. Collected on Beata Island, Dominican Republic, January 18, 1932. A scandent shrub with long pods which open gradually and expose the bright red inside. The seeds are covered with a white coating of soft glistening material which remains moist. Found on dry limestone rocks.

For previous introduction see 90902.

From China. Seeds presented by G. Weidman Groff, Lingnan University, Canton. Received February 3, 1932. A native wild plum.

An introduced bean which has become spontaneous in some Provinces of Cuba; it is used both as food for men and cattle and as a cover crop.

From Cuba. Seeds presented by Ing. Antonio Portuondo, director, Estacion Experimental Agronomica, Santiago de las Vegas, Province de la Habana. Received February 2, 1932.

From Arizona. Seeds presented by F. J. Crider, Boyce Thompson Southwestern Arboretum, Superior. Received February 3, 1932.

An arborescent plant 10 to 15 feet high sometimes branched above, native to Arizona. The smooth rigidly divergent blue-green leaves, 1 to 3 inches wide, are sparingly filiferous along the margins, and the white flowers are borne in dense tomentose panicles close to the leaves.

From the West Indies. Seeds collected by David Fairchild and P. H. Dorsett, cultural explorers, Bureau of Plant Industry, with the 1931–32 Allison V. Armour expedition. Received February 2, 1932.

A very handsome slender fan palm with a trunk about 20 feet high and about 3 inches in diameter. The underside of the leaves is silvery and the fruit is dark purple. Found on sand dunes near the seacoast.

From Great Inagua Isle, Bahamas.
28 PLANT MATERIAL INTRODUCED

96482 to 96491—Continued

96483. No. 2614. Collected January 17, 1932 on the island of Beata, Dominican Republic.

96484. LINOMA ALBA (Bory) O. F. Cook.
   No. 2637. Collected January 23, 1932, in the public square at Basseterre, St. Kitts. A form of this well-known areca-like palm with yellow or orange petioles and veins on the leaves of the young plants. It reaches a height of about 30 feet and the pinate leaves are 4 to 8 feet long. It is native to tropical Asia.

For previous introduction see 93407.

96485. ELEIS GUINEENSIS Jacq.
   African oil palm.
   No. 2575. Collected January 9, 1932, at Nassau, New Providence, Bahamas, in the garden of Mrs. Edward George. A tall and evidently a very old tree, but still bearing fruit.

96486. LIVISTONA CHINENSIS (Jacq.) R. Br.
   Chinese fan palm.
   No. 2555. Collected January 1, 1932, on New Providence. A palm, native to China, with a short thick trunk up to 6 feet high, having and 1 foot thick, a crown of reniform palmately divided leaves 4 to 6 feet across on petioles about 5 feet long, which are armed below the middle with recurved brown spines more than an inch long.

For previous introduction see 93412.

96487. PSEUDOPHENIX SAONAE O. F. Cook.
   Nos. 2619 and 2620. Collected January 20, 1932, on Saona Island off the southeast coast of Dominican Republic. A tall palm over 25 feet high with gray-green leaves and great bunches of brilliant scarlet fruits. It suggests in habit a small Royal palm.

96488. PSEUDOPHENIX SARGENTI Wendt.
   No. 2585. The so-called Hot cabbage palm, collected January 10, 1932, in Nassau, New Providence, in the garden of Mrs. Edward George. A palm which is wild on Harbour Island and on several of the Bahama Keys, which grows well in the rocky limestone formation of the islands.

96489. INODES CAUSIIUM O. F. Cook.
   No. 2621. Collected January 20, 1932, on Saona Island, near the beach. A palm 35 feet high with the trunk 18 inches in diameter; the fan-shaped leaves are 12 feet long and 6 feet across. This species of palm has proved hardy at Gainesville, Fla., and deserves a wide distribution because of its striking beauty when young as well as when old.

96490. SEAFORHIA ELEGANS R. Br.
   No. 2589. Collected January 10, 1932. In Nassau, New Providence, in the garden of Mrs. Edward George. A palm up to 30 feet in height, native to the southern coast of Australia and the neighboring islands. The dark-green pinate fronds are 15 feet long, and the small fruits are oval and very fibrous.

For previous introduction see 93410.

96491. THRINAX sp.
   No. 2636. Collected January 24, 1932 in the public square at Basseterre, St. Kitts. A handsome palm 15 feet high, with large drooping fan-shaped leaves and beautiful snow-white fruits borne on

96482 to 96491—Continued

long inflorescences that project beyond the leaves, giving the palm a very showy appearance.

96492 to 96499.

From India. Seeds presented by W. O'Brien, Hyderabad, Deccan. Received February 6, 1932.

   Goa chillie. Peppers which are not pungent and which under suitable cultivation attain a length of 6 or 7 inches. Acclimated to India, but said to have originated in some Portuguese possession in South America or Central America.

96492. Chilli Lajji Mukhi, facing the sun.

96493. Hot Indian.

96494. CARICA PAPAYA L. Papavaceae.
   Papaya.

96495 to 96499. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.

96495. Argona Travelle.

96496. Loatland.

96497. Raya Kushi Rives.

96498 and 96499. CUCUMIS MELO L. Cucurbitaceae. Melon.

96498. Raya Lucknow.

96499. Surdah Kabul.

96500 to 96518.

From the West Indies. Material collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armour expedition. Received February 2, 1932.

   No. 2635. Variety Ripeley. Plants presented by Mr. Kelsick, superintendent, Agricultural Experiment Station at Basseterre, St. Kitts, January 23, 1932. A large-fruited, golden-yellow pineapple of delicious flavor and texture, but not resistant to the pineapple wilt. A fine variety for domestic consumption, but not for shipping.

96501. ASPARAGUS sp. Convolvulaceae.
   No. 2574. Collected January 9, 1932, at Nassau, New Providence, in the garden of Mrs. Edward George. A climbing species with delicate pink or lavender and white blooms.

96502. BUCIDA BUCERAS L. Combretaceae.
   No. 2601. Collected on Inagua, Bahamas, January 15, 1932. A so-called oak with leaves 3 inches long and 2 inches wide. A tree up to 75 feet high with a diameter of 3 to 4 feet and having spathulate leaves clustered at the ends of the branches. The spikes of inconspicuous flowers are followed by small slightly fleshy drupes about a quarter of an inch long. It is native to the West Indies and tropical America.

   No. 2584. Collected January 10, 1932, at Nassau, New Providence. A salmon-
pink pepper that looks like a cross between the yellow Haitian variety and a deep red variety. For trial in comparison with the Haitian variety.

**96504. Carica papaya L. Papavaceae. Papaya.**

No. 2582. Collected at Nassau, New Providence, January 12, 1932. A round small-fruited variety of excellent flavor, very sweet, and without the unpleasant smell which is characteristic of many papayas.

**96505. Curcuma longa L. Zingiberaceae. Turmeric.**

No. 2641. Tubers from the market at Nassau, January 23, 1932. A very small tuber-producing species with very showy red and black seeds.

**96506. Dioscorea trifida L. f. Dioscoreaceae. Yam.**

No. 2631. Tubers collected in the Basseterre market, St. Kitts, January 23, 1932. A very small tuber-producing species with thin skins and, when baked, of a mealy consistency.

**96507. Helicteres jamaicensis Jacq. Sterculiaceae.**

No. 2607. Collected on Salt Pond Hill, Great Inagua, Bahamas, January 10, 1932. A shrub or small tree up to 25 feet high, native to the West Indies. The red flowers are small and not very showy, but the surfaces of the fruits are aerolated, giving them an attractive appearance.

**96508. Exognium erospermum (Desr.) Choisy. Convolvulaceae. Morning-glory.**

No. 2611. Collected January 18, 1932, on rocky cliffs at Beata Island, Dominican Republic. Tubers of a beautiful free-flowering twining morning-glory with very attractive purple-pink or magenta-pink flowers in great masses.

**96509. Jacaranda caribaea (L.) Griseb. Bignoniaceae.**

No. 2561. Collected at Nassau, New Providence, in the garden of Mrs. Edward George. A large tree, native to the West Indies and tropical America. The trifoliolate leaves have prominently veined linear-elliptic leaflets about 1 inch long. The glabrous blue flowers, 1 to 2 inches long, are borne in few-flowered clusters and are followed by spirally twisted pods 1 to 2 inches long.

**96510. Lycopersicon esculentum Mill. Solanaceae. Tomato.**

No. 2591. The Gem. Collected at Gun Point, Eleuthera Island, Bahamas, January 11, 1932. A small, deep-red tomato 1 1/2 inches in diameter and of good flavor. It is much esteemed, as it ripens early and lasts until late in the season.

**96511. Marcgravia umbellata L. Marcgraviacae.**

No. 2539. Collected on Mount Misery, St. Kitts, at 1,700 feet altitude, January 24, 1932. A climbing epiphytic shrub or small tree, up to 15 feet high, with small fragrant flowers and small seed pods. May prove of value as a dooryard tree.

**96512. Stylosanthes hamata (L.) Taub. Fabaceae.**

No. 2602. From Great Inagua, Bahamas, January 15, 1932. A dwarf species, up to 1 foot high, with small fragrant flowers and small seed pods. May prove of value as a cover crop.

**96513. Vitis agnus-castus L. Verbenaceae. Lilac-chaste tree.**

No. 2573. Collected January 9, 1932, at Nassau, New Providence, in the garden of Mrs. Edward George. A large tree with very aromatic foliage and delicate lavender flowers.

**96514. Acer rubinerve Sieb. and Zucc. Maple.**

A small deciduous Japanese maple with small bluish-white young shoots and dark green irregularly serrate 5-lobed or obscure 5-lobed leaves. The flowers are in erect racemes about 3 inches long, and the keys are up to three fourths of an inch long. Occasionally the young foliage, the leafstalks, and the midribs are red.

For previous introduction see 91522.

**96515. Acer tegmentosum Maxim. Aceraceae. Maple.**

From Japan. Seeds purchased from the Chugai Shokubutsu Yen, Yamamoto, Kayashi workroom, near Kobe. Received February 8, 1932.
96519 to 96527—Continued

A tree with 3- to 5-lobed coriaceous serrulate leaves 2 to 6 inches long, native to Manchuria and Chosen. The small flowers are in slender pendulous racemes 3 to 4 inches long and are followed by winged fruits which spread almost horizontally.

For previous introduction see 90654.

96521. DAPHNIPHYLLUM GLAUCESCENS
Blume. Euphorbiaceae.
An East Indian tree with entire oblong-lanceolate leaves, inconspicuous flowers, and fleshy drupes.

96522. DAPHNIPHYLLUM MACROPODUM Miquel. Euphorbiaceae.
An evergreen shrub with elliptic-oblong, dark-green leathery leaves 5 to 8 inches long, inconspicuous flowers, and small ellipsoid fruits in axillary racemes 3 inches long. Native to western China, with oblong leaves, nodding yellowish flowers, and red fruits.

For previous introduction see 90654.

96523. IRIS MINUTA Franch. and Sav. Iridaceae.
A curious little yellow-flowered beardless iris, apparently only known as a cultivated plant in Japan, but said to grow wild in Chosen (Korea). The flowers, which appear in April or May, have short, pale-yellow standards, and the slender falls are marked with brown. The leaves are short at flowering time, but eventually reach a height of about 12 inches.

96524. LEUCOTHOR KEISKEI Miquel. Ericaceae.
A slender spreading evergreen Japaneese shrub with ovate-oblong remotely crenate-serrate leaves 1 to 3 inches long and axillary and terminal racemes of large white cylindrical flowers closely resembling the American L. racemosa.

96525 to 96527. RHODODENDRON spp. Ericaceae.

96525. RHODODENDRON RIFICULATUM D. Don. (R. dilatatum Miquel).
A much-branched deciduous Japaneese shrub up to 25 feet high belonging to the section Scadorhodion. The branchlets are yellow brown; the reticulate broadly ovate leaves, 2 to 3 inches long, are in clusters of 2 to 3, and the slightly 2-lipped, rotate-campanulate flowers are rose purple to magenta. There are two forms—the ordinary form with 10 stamens, often called E. rhododendron, and a form with 5 stamens called R. dilatatum.

For previous introduction see 95542.

96526. RHODODENDRON sp.

96527. RHODODENDRON spd.

96528 and 96529.


An upright shrub about 6 feet high, native to western China, with obovate leaves, nodding yellowish flowers, and red fruits.

For previous introduction see 76552.

96528 and 96529—Continued

96529. LONICERA PYRENAICA L. Caprifoliaceae. Pyrenees honeysuckles.
A small upright shrub 3 to 4 feet high, native to southern Europe. The leaves are obovate, blue-green above and whitish below, and the nodding flowers on slender stalks, are pinkish white and nearly an inch long. The subglobose berries are red.

96530 to 97251. SOJA MAX (L.) Piper (Glycine hispida Maxim.). Fabaceae. Soybean.

From Chosen. Seeds arranged for by the Dorsett and Morse expedition and sent through the American consulate at Tokyo, Japan. Received February 6, 1932.

A collection of soybeans presented by the Selsen Shijo (western branch) of the Agricultural Experiment Station of the Chosen Government, Shariin, October 24, 1931.

Notes by W. J. Morse.
96530 to 97251—Continued

96530 to 97251—Continued

96545 and 96546. Medium size, straw-yellow with pale hilum; seed coat slightly wrinkled.

96545. No. 8664. Station no. 694. Slightly mottled.

96546. No. 8665. Station no. 695. Slightly mottled.

96547. No. 8666. Station no. 697. Medium large, straw-yellow nearly round with a pale hilum; seed coat slightly split; some purple spot.

96548. No. 8667. Station no. 698. Slightly mottled with brown.

96549 to 96552. Medium size, straw-yellow with pale hilum.


96550. No. 8670. Station no. 700. Mottled with brown.

96551. No. 8671. Station no. 701. Slightly mottled with brown.

96552. No. 8672. Station no. 702. Medium size, straw-yellow with black hilum; heavily mottled with black.

96553. No. 8673. Station no. 703. Medium size, black with yellow germ.

96554 to 96560. Medium size, brown with green germ.

96554. No. 8674. Station no. 704. Mottled with brown.

96555. No. 8675. Station no. 705. Mottled with brown.

96556. No. 8676. Station no. 706. Mottled with brown.

96557. No. 8677. Station no. 707. Slightly mottled with brown.

96558. No. 8678. Station no. 708. Slightly mottled with brown.

96559. No. 8679. Station no. 709. Slightly mottled with brown.

96560. No. 8680. Station no. 710. Slightly mottled with brown.

96561 to 96564. Medium size, green with slate-black hilum and green germ.

96561. No. 8681. Station no. 711. Slightly mottled with brown.

96562. No. 8682. Station no. 712. Slightly mottled with brown.

96563. No. 8683. Station no. 713. Slightly mottled with brown.

96564. No. 8684. Station no. 714. Medium size, mottled with black, seed coat slightly split.


96566. No. 8686. Station no. 716. Medium large, seed coat wrinkled and split.

96567. No. 8687. Station no. 717. Medium large, seed coat somewhat split, slight purple spot.

96568. No. 8688. Station no. 718. Medium size.

96569. No. 8689. Station no. 719. Medium size, seed coat somewhat wrinkled and split.

96570. No. 8690. Station no. 720. Large size, seed coat somewhat wrinkled.

96571. No. 8691. Station no. 721. Medium size, seed coat slightly wrinkled and split.

96572. No. 8692. Station no. 722. Medium size, seed coat slightly wrinkled.

96573. No. 8693. Station no. 723. Medium large, green with brown hilum and green germ; seed coat more or less split.

96574. No. 8694. Station no. 724. Medium size, green with slate-black hilum and green germ. Seed coat somewhat wrinkled.

96575. No. 8695. Station no. 725. Medium size, green with brown hilum and green germ. Slightly mottled with brown.

96576. No. 8696. Station no. 726. Medium size, green with dark-brown hilum and green germ.

96577. No. 8697. Station no. 727. Medium size, green with brown hilum and green germ.

96578. No. 8698. Station no. 728. Slightly mottled with brown.


96580. No. 8700. Station no. 730. Medium size, green with brown hilum and green germ.

96581. No. 8701. Station no. 731. Medium size, green with brown hilum and green germ.

96582. No. 8702. Station no. 732. Medium size, green with dark-brown hilum and green germ; heavily mottled with brown.

96583. No. 8703. Station no. 733. Medium size, green with dark-brown hilum and green germ; heavily mottled with brown.

96584. No. 8704. Station no. 734. Medium size, green with brown hilum and green germ.

96585. No. 8705. Station no. 735. Medium size, green with brown hilum; slightly mottled with brown.

96586. No. 8706. Station no. 736. Medium small, green with brown hilum and green germ; slightly mottled with brown.

96587. No. 8707. Station no. 737. Medium size, green with brown hilum; slightly mottled with dark brown.

96588. No. 8708. Station no. 738. Medium size, green with dark-brown hilum; heavily mottled with brown.

96589. No. 8709. Station no. 739. Medium small, green with brown hilum and yellow germ.

96590. No. 8710. Station no. 740. Medium size, green with brown hilum and green germ; slightly mottled with brown.

96591. No. 8711. Station no. 741. Medium size, seed coat slightly split.

96592. No. 8712. Station no. 742. Medium size, seed coat slightly split.

96593. No. 8713. Station no. 743. Medium size.

96594. No. 8714. Station no. 744. Medium size, olive, heavily mottled with black.

96595 to 96598. Medium size, green with brown hilum and green germ.
PLANT MATERIAL INTRODUCED—Continued

96530 to 97251—Continued

96596. No. 8715. Station no. 745. Mottled with brown.
96597. No. 8716. Station no. 746. Mottled with brown.
96599. No. 8718. Station no. 748. Medium size, green with large dark-brown hilum and green germ; slightly mottled with brown; seed coat more or less wrinkled and split.
96600 and 96601. Medium size, green with brown hilum and green germ; slightly mottled with brown.
96600. No. 8719. Station no. 749.
96601. No. 8720. Station no. 750.
96602. No. 8721. Station no. 751. Medium small, green with brown hilum and green germ.
96603 and 96604. Green with brown hilum and green germ; slightly mottled with brown.
96603. No. 8722. Station no. 752. Very small.
96604. No. 8723. Station no. 753. Medium size.
96605. No. 8724. Station no. 754. Medium small, green with brown hilum and green germ; mottled with brown.
96606. No. 8725. Station no. 755. Medium size, green with pale hilum and green germ; mottled with brown.
96607. No. 8726. Station no. 756. Medium size, green with brown hilum and green germ; seed coat more or less wrinkled.
96608. No. 8727. Station no. 757. Medium size, green with brown hilum; seed coat slightly wrinkled.
96609 to 96611. Medium size, green with brown hilum and green germ.
96609. No. 8728. Station no. 758.
96610. No. 8729. Station no. 759. Slightly mottled with brown.
96611. No. 8730. Station no. 760. Slightly affected with purple spot.
96612. No. 8731. Station no. 761. Medium size, straw-yellow to olive-yellow with yellow to green germ.
96613 to 96615. Medium size, green with brown hilum and green germ; seed coat more or less wrinkled.
96613. No. 8732. Station no. 762.
96614. No. 8733. Station no. 763. Seed coat split.
96615. No. 8734. Station no. 764.
96616. No. 8735. Station no. 765. Medium size, straw-yellow to green with brown hilum and green germ.
96617 to 96630. Medium size, green with brown hilum and green germ.
96617. No. 8736. Station no. 766.
96618. No. 8737. Station no. 767.
96619. No. 8738. Station no. 768. Mottled with brown, seed coat slightly wrinkled and split.
96620. No. 8739. Station no. 769. Slightly mottled with brown.
96621 and 96622. Medium small, green with brown hilum and green germ.
96621. No. 8740. Station no. 770.
96622. No. 8741. Station no. 771. Mottled slightly with brown.
96623 to 96626. Medium size, green with brown hilum and green germ; slightly mottled with brown.
96623. No. 8742. Station no. 772.
96624. No. 8743. Station no. 773.
96625. No. 8744. Station no. 774.
96626. No. 8745. Station no. 775. Seed coat slightly wrinkled and split.
96627. No. 8746. Station no. 776. Medium size, straw-yellow to green with brown hilum and green germ; seed coat slightly wrinkled and split.
96628. No. 8747. Station no. 777. Medium size, green with brown hilum and green germ; slightly mottled with brown; seed coat split.
96629 and 96630. Medium size, green with brown hilum and green germ; seed coat wrinkled.
96629. No. 8748. Station no. 778.
96630. No. 8749. Station no. 779. Seed coat split.
96631. No. 8750. Station no. 780. Medium size, olive-yellow to green with green germ; slightly mottled with brown.
96632. No. 8751. Station no. 781. Medium size, straw-yellow to green with brown hilum and olive-yellow to green germ; mottled with brown.
96633. No. 8752. Station no. 782. Medium large, green with pale hilum and green germ; slightly mottled with brown; seed coat slightly split.
96634 and 96635. Medium size, green with light brown hilum and green germ.
96634. No. 8753. Station no. 783.
96635. No. 8754. Station no. 784.
96636. No. 8755. Station no. 785. Medium large, green with brown hilum and green germ; slightly mottled with brown; seed coat split.
96637. No. 8756. Station no. 786. Medium size, straw-yellow to green with brown hilum and green germ; mottled with brown.
96638. No. 8757. Station no. 787. Medium size, olive-yellow to green with dark-brown hilum and green germ; heavily mottled with dark brown.
96639. No. 8758. Station no. 788. Medium size, green with brown hilum and green germ; heavily mottled with dark brown.
96640 to 96643. Medium size, green with pale hilum and green germ.
96640. No. 8759. Station no. 789.
96641. No. 8760. Station no. 790. Mottled with brown.
96642. No. 8761. Station no. 791. Mottled with brown.
96643. No. 8762. Station no. 792. Mottled with brown.
96530 to 97251—Continued

96644. No. 8763. Station no. 793. Medium small, olive-yellow to green with pale hilum and green germ; mottled with brown.

96645. No. 8764. Station no. 794. Medium large, green with pale hilum and green germ; mottled with brown.

96646. No. 8765. Station no. 795. Medium size, green with pale hilum and green germ; slightly mottled with brown.

96647. No. 8766. Station no. 796. Medium size, olive-yellow to green with pale hilum and green germ; heavily mottled with brown.

96648. No. 8767. Station no. 797. Medium size, green with pale hilum and yellowish-green to green germ; heavily mottled with brown.

96649. No. 8768. Station no. 798. Medium small, black with yellow germ; slightly flattened.

96650 and 96651. Medium size, black with yellow germ.

96651. No. 8770. Station no. 800.

96652. No. 8771. Station no. 801.

96653. No. 8772. Station no. 802. Large size, black with yellow germ; slightly flattened.

96654 and 96655. Medium size, black with yellow germ.

96656. No. 8773. Station no. 803.

96657. No. 8774. Station no. 804.

96658 to 96663. Medium large, black with yellow germ.

96658. No. 8775. Station no. 805.

96659. No. 8776. Station no. 806.

96660. No. 8777. Station no. 807.

96661. No. 8778. Station no. 808.

96662. No. 8779. Station no. 809.

96663. No. 8780. Station no. 810.

96664. No. 8781. Station no. 811.

96665 to 96668. Black with yellow germ.

96665. No. 8782. Station no. 812. Large size.

96666. No. 8783. Station no. 813. Large size.


96668. No. 8785. Station no. 815. Medium large.

96669. No. 8786. Station no. 816. Medium small.

96670. No. 8787. Station no. 817. Large size.

96671. No. 8788. Station no. 818. Medium size, seed coat slightly split.

96672. No. 8789. Station no. 819. Large size.

96673. No. 8790. Station no. 820. Large size.

96530 to 97251—Continued

96672. No. 8791. Station no. 821. Medium size.

96673. No. 8792. Station no. 822. Medium large.

96674. No. 8793. Station no. 823. Medium size.

96675. No. 8794. Station no. 824. Medium size.

96676. No. 8795. Station no. 825. Medium large.

96677. No. 8796. Station no. 826. Medium large.

96678. No. 8797. Station no. 827. Medium to medium large.

96679. No. 8798. Station no. 828. Medium large.

96680. No. 8799. Station no. 829. Medium large.

96681. No. 8800. Station no. 830. Medium large.

96682. No. 8801. Station no. 831. Medium size.

96683. No. 8802. Station no. 832. Medium large, seed coat split.

96684. No. 8803. Station no. 833. Medium large.

96685. No. 8804. Station no. 834. Medium large.

96686. No. 8805. Station no. 835. Medium large.

96687. No. 8806. Station no. 836. Medium size, brown with yellow germ.

96688 to 96715. Black with yellow germ.

96688. No. 8807. Station no. 837. Medium size.

96689. No. 8808. Station no. 838. Large size.

96690. No. 8809. Station no. 839. Medium large.

96691. No. 8810. Station no. 840. Medium large.

96692. No. 8811. Station no. 841. Medium large.

96693. No. 8812. Station no. 842. Large size, seed coat slightly split.

96694. No. 8813. Station no. 843. Medium large.

96695. No. 8814. Station no. 844. Medium large.

96696. No. 8815. Station no. 845. Medium size.

96697. No. 8816. Station no. 846. Medium large.

96698. No. 8817. Station no. 847. Large size.

96699. No. 8818. Station no. 848. Large size, seed coat split.

96700. No. 8819. Station no. 849. Medium large.

96701. No. 8820. Station no. 850. Large size.

96702. No. 8821. Station no. 851. Large size.

96703. No. 8822. Station no. 852. Medium large.

96704. No. 8823. Station no. 853. Medium large.
PLANT MATERIAL INTRODUCED

96530 to 97251—Continued

96530 to 97251—Continued

96739 to 96743. Black with yellow germ; seed coat split.

96739. No. 8858. Station no. 888. Large size.

96740. No. 8859. Station no. 889. Medium large.

96741. No. 8860. Station no. 890. Large size.

96742. No. 8861. Station no. 891. Large size.

96743. No. 8862. Station no. 892. Medium large, black with yellow germ; seed coat split into coarse network.

96744 and 96745. Medium large, black with yellow germ; seed coat slightly split.

96744. No. 8863. Station no. 893.

96745. No. 8864. Station no. 894.

96746. No. 8865. Station no. 895. Medium large, black with yellow germ; seed coat split into fine network on sides.

96747 to 96749. Medium large, black with yellow germ; seed coat slightly split.

96747. No. 8866. Station no. 896.

96748. No. 8867. Station no. 897.

96749. No. 8868. Station no. 898.

96750. No. 8869. Station no. 899. Large size, black with yellow germ; seed coat slightly split.

96751. No. 8870. Station no. 900. Medium large, black with yellow germ; seed coat slightly split.

96752. No. 8871. Station no. 901. Medium large, black with yellow germ; seed coat slightly split into network on sides.

96753. No. 8872. Station no. 902. Medium large, black with yellow germ; seed coat slightly split.

96754 and 96755. Medium large, black with yellow germ; seed coat split into network on sides.

96754. No. 8873. Station no. 903.

96755. No. 8874. Station no. 904.

96756. No. 8875. Station no. 905. Large size, black with yellow germ; seed coat slightly split.

96757 to 96762. Medium large, black with yellow germ; seed coat split into coarse network.

96757. No. 8876. Station no. 906.

96758. No. 8877. Station no. 907.

96759. No. 8878. Station no. 908.

96760. No. 8879. Station no. 909.

96761. No. 8880. Station no. 910.

96762. No. 8881. Station no. 911.

96763. No. 8882. Station no. 912. Medium large, black with yellow germ; seed coat split into fine network.

96764. No. 8883. Station no. 913. Medium large, black with yellow germ; seed coat split into fine network.

96765. No. 8884. Station no. 914. Medium large, black with yellow germ; seed coat split into fine network.

96766. No. 8885. Station no. 915. Medium large, black with yellow germ.
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96530 to 97251—Continued

96787 to 96770. Medium large, black with yellow germ; seed coat split into coarse network.

96787. No. 8886. Station no. 916.
96788. No. 8887. Station no. 917.
96789. No. 8888. Station no. 918.
96790. No. 8889. Station no. 919.

96771 to 96775. Medium large, black with yellow germ.

96771. No. 8890. Station no. 920. Seed coat split into fine network.
96772. No. 8891. Station no. 921. Seed coat split into coarse network.
96773. No. 8892. Station no. 922.
96774. No. 8893. Station no. 923. Seed coat split into coarse network.
96775. No. 8894. Station no. 924. Seed coat split into coarse network.

96776. No. 8895. Station no. 925. Large size, black with yellow germ; seed coat split into coarse network.
96777. No. 8896. Station no. 926. Medium large, black with yellow germ; seed coat split into fine network.

96778 to 96780. Medium large, black with yellow germ; seed coat split into coarse network.

96778. No. 8897. Station no. 927.
96779. No. 8898. Station no. 928.
96780. No. 8899. Station no. 929.

96781 and 96782. Medium large, black with yellow germ.

96781. No. 8900. Station no. 930. Seed coat split into fine network.
96782. No. 8901. Station no. 931. Seed coat split into coarse network.

96783 and 96784. Medium size, straw-yellow with pale hilum; mottled with brown.

96784. No. 8903. Station no. 933. Slightly mottled.

96785. No. 8904. Station no. 934. Medium size, straw-yellow with dark-brown hilum; mottled with dark brown.
96786 and 96787. Medium size, straw-yellow with pale hilum.

96786. No. 8905. Station no. 935.
96787. No. 8906. Station no. 936. Mottled with brown.

96788. No. 8907. Station no. 937. Medium size, straw-yellow with light-brown hilum; mottled with brown.

96789. No. 8908. Station no. 938. Medium size, straw-to-olive-yellow with brown hilum; heavily mottled with brown.

96790. No. 8909. Station no. 939. Medium large, olive-yellow; mottled with brown.

96791. No. 8910. Station no. 940. Medium large, straw-yellow with brown hilum; heavily mottled with brown.

96792. No. 8911. Station no. 941. Medium large, straw-yellow with pale hilum; mottled with brown.

96793. No. 8912. Station no. 942. Medium size, straw-yellow with brown hilum; mottled with brown.

96794 to 96796. Medium small, straw-yellow with brown hilum.

96794. No. 8913. Station no. 943.
96795. No. 8914. Station no. 944.

96796. No. 8915. Station no. 945. Heavily mottled with brown.

96797 to 96800. Medium size, straw-yellow with pale hilum; mottled with brown.

96797. No. 8916. Station no. 946. Slightly mottled.
96798. No. 8917. Station no. 947.
96799. No. 8918. Station no. 948. Slightly mottled.

96800. No. 8919. Station no. 949. Slightly mottled.

96801. No. 8920. Station no. 950. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

96802. No. 8921. Station no. 951. Medium small, black and brown with black formed in concentric rings.

96803 to 96805. Medium size, straw-yellow with pale hilum.

96803. No. 8922. Station no. 952.
96804. No. 8923. Station no. 953. Slightly mottled with brown; some purple spot.

96805. No. 8924. Station no. 954. Slightly mottled with brown.

96806. No. 8925. Station no. 955. Medium size, straw-yellow with brown hilum; mottled with brown.

96807. No. 8926. Station no. 956. Medium size, straw-yellow with pale hilum; seed coat slightly split.

96808. No. 8927. Station no. 957. Medium small, straw-yellow with pale hilum; mottled with brown.

96809. No. 8928. Station no. 958. Medium size, straw-yellow with bare hilum; mottled with brown.

96810. No. 8929. Station no. 959. Medium size, olive-yellow with dark-brown hilum; mottled with brown.

96811. No. 8930. Station no. 960. Medium size, straw-yellow with dark-brown hilum; heavily mottled with brown.

96812. No. 8931. Station no. 961. Medium size, straw-yellow with brown hilum.

96813. No. 8932. Station no. 962. Medium size, straw-yellow with black hilum; mottled with black and brown.

96814 and 96815. Straw-yellow with pale hilum; slightly mottled with brown.

96814. No. 8933. Station no. 963. Medium size.

96815. No. 8934. Station no. 964. Medium size.

96816. No. 8935. Station no. 965. Medium size, straw-yellow with brown hilum; slightly mottled with brown.
PLANT MATERIAL INTRODUCED

96530 to 97251—Continued

96817. No. 8936. Station no. 966. Medium size, straw-to-olive-yellow with pale hilum; some purple spot.

96818. No. 8937. Station no. 967. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

96819. No. 8938. Station no. 968. Medium size, black and brown with the black arranged in concentric rings; yellow germ.

96820. No. 8939. Station no. 969. Medium size, black and brown with the black arranged in concentric rings; yellow germ.

96821. No. 8940. Station no. 970. Medium size, brown with yellow germ.

96822. No. 8941. Station no. 971. Medium size, straw-yellow with pale hilum; mottled with brown.

96823. No. 8942. Station no. 972. Medium size, straw-to-olive-yellow with black hilum; mottled with dark brown.


96825. No. 8944. Station no. 974. Very small, straw-yellow with dark-brown hilum; mottled with brown.

96826. No. 8945. Station no. 975. Medium size, straw-yellow, heavily mottled with brown.


96828. No. 8947. Station no. 977. Small size, straw-yellow with dark-brown hilum; mottled with brown.

96829. No. 8948. Station no. 978. Medium size, straw-yellow with pale hilum; mottled with brown.


96831. No. 8950. Station no. 980. Pale hilum.


96836. No. 8955. Station no. 985. Small size, brown hilum; heavily mottled with brown.

96837. No. 8956. Station no. 986. Medium large, straw-yellow with brown hilum; slightly mottled with brown.

96838. No. 8957. Station no. 987. Medium size, straw-yellow with pale hilum; lightly mottled with brown.

96839. No. 8958. Station no. 988. Dark-brown hilum.


96842 and 96843. Medium size, straw-yellow with brown hilum.

96844 and 96845. Station no. 991. Heavily mottled with brown.

96846. No. 8962. Station no. 992. Yellow hilum.

96847 to 96848. Straw-yellow with pale hilum.

96849. No. 8963. Station no. 993. Medium size.

96850. No. 8964. Station no. 994. Medium small.

96851. No. 8965. Station no. 995. Medium.

96852. No. 8966. Station no. 996. Medium size, light straw-yellow with brown hilum; slightly mottled with brown.

96853. No. 8967. Station no. 997. Medium size, olive-yellow, with dark-brown hilum; slightly mottled with dark brown.

96854 and 96855. Medium size, straw-yellow with brown hilum.

96856. No. 8968. Station no. 998. Pale hilum.

96857. No. 8969. Station no. 999. Light-brown hilum.

96858. No. 8970. Station no. 1000. Medium small, black with green germ.

96859. No. 8971. Station no. 1001. Medium size, olive-yellow with dark-brown hilum; slightly mottled with dark brown.

96860. No. 8972. Station no. 1002. Medium size, green with brown hilum and green germ.

96861 and 96862. Medium size, straw-yellow with brown hilum.


96866. No. 8976. Station no. 1006. Medium size, straw-yellow with black hilum; mottled with black.

96867. No. 8977. Station no. 1007. Medium size, olive-yellow with black hilum; heavily mottled with black.

96868. No. 8978. Station no. 1008. Medium size, nearly round.

96869. No. 8979. Station no. 1009. Small size, straw-yellow with black hilum, nearly round; heavily mottled with black.

96870. No. 8980. Station no. 1010. Very small, nearly round, straw-to-olive-yellow with black hilum; heavily mottled with black.

96871. No. 8981. Station no. 1011. Mottled with dark brown.
<table>
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<th>No.</th>
<th>Station</th>
<th>Size</th>
<th>Color Description</th>
<th>Mottled/Spot</th>
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<td>slightly</td>
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<td></td>
<td></td>
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<tr>
<td>8996</td>
<td>1026</td>
<td>Medium</td>
<td>straw-yellow with brown</td>
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<td>8997</td>
<td>1027</td>
<td>Medium</td>
<td>straw-yellow with brown</td>
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<tr>
<td>8998</td>
<td>1028</td>
<td>Medium</td>
<td>pale hilum</td>
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<tr>
<td>8999</td>
<td>1029</td>
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<tr>
<td>9000</td>
<td>1030</td>
<td>Medium</td>
<td>straw-yellow with dark-brown hilum</td>
<td>slightly</td>
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<tr>
<td>9001</td>
<td>1031</td>
<td>Medium</td>
<td>straw-yellow with dark-brown hilum</td>
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<td>9002</td>
<td>1032</td>
<td>Medium</td>
<td>straw-yellow with pale brown hilum</td>
<td></td>
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<tr>
<td>9003</td>
<td>1033</td>
<td>Medium</td>
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<tr>
<td>9004</td>
<td>1034</td>
<td>Medium</td>
<td>straw-yellow with brown</td>
<td></td>
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<tr>
<td>9005</td>
<td>1035</td>
<td>Pale</td>
<td>pale hilum</td>
<td></td>
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<tr>
<td>9006</td>
<td>1036</td>
<td>Light-brown</td>
<td>light-brown hilum</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PLANT MATERIAL INTRODUCED

96530 to 97251—Continued

96915. No. 9034. Station no. 1064. Medium size, olive-brown; seed coat more or less split.
96916. No. 9035. Station no. 1065. Medium size, brown.
96917. No. 9036. Station no. 1066. Medium size, black; seed coat split into fine network.
96918. No. 9037. Station no. 1067. Medium size, black with yellow germ.
96919. No. 9038. Station no. 1068. Medium size, slightly flattened, black with yellow germ.
96920. No. 9039. Station no. 1069. Medium size, reddish brown; seed coat more or less split.
96922. No. 9041. Station no. 1071. Medium size, straw- to olive-yellow with pale hilum; heavily mottled with brown and black.
96923. No. 9042. Station no. 1072. Medium size, olive-yellow with brown hilum; heavily mottled with brown.
96924. No. 9043. Station no. 1073. Medium size, dark brown with yellow germ.
96925. No. 9044. Station no. 1074. Medium size, straw-yellow with dark-brown hilum; mottled with dark brown.
96926. No. 9045. Station no. 1075. Medium size, straw- to olive-yellow with dark-brown hilum; mottled with brown.
96928 and 96929. Straw-yellow with brown hilum; heavily mottled with brown.
96929. No. 9048. Station no. 1078. Medium size.
96930. No. 9049. Station no. 1079. Medium size, slightly flattened, straw-yellow with dark-brown hilum; slightly mottled with brown.
96931. No. 9050. Station no. 1080. Medium size, straw-yellow with dark-brown hilum; mottled with dark brown.
96932. No. 9051. Station no. 1081. Medium size, straw- to olive-yellow with dark-brown hilum; mottled with dark brown.
96933. No. 9052. Station no. 1082. Medium size, green with dark-brown hilum; heavily mottled with dark brown.
96934. No. 9053. Station no. 1083. Medium large, straw-yellow with dark-brown hilum; heavily mottled with brown.
96935. No. 9054. Station no. 1084. Medium size, olive-yellow with dark-brown hilum; heavily mottled with dark brown.
96936. No. 9055. Station no. 1085. Medium size, straw-yellow with brown hilum; mottled with brown.
96937. No. 9056. Station no. 1086. Large size, black with yellow germ.
96938. No. 9057. Station no. 1087. Medium small, nearly round, straw-yellow with brown hilum; mottled with brown.
96939 and 96940. Medium size, olive with black hilum; heavily mottled with brown.
96941. No. 9060. Station no. 1090. Medium small, olive-yellow with black hilum; heavily mottled with black.
96942. No. 9061. Station no. 1091. Small size, nearly round, olive with black hilum; heavily mottled with black.
96943 to 96949. Medium small, nearly round, olive, with black hilum; heavily mottled with black.
96943. No. 9062. Station no. 1092.
96944. No. 9063. Station no. 1093.
96945. No. 9064. Station no. 1094.
96946. No. 9065. Station no. 1095.
96947. No. 9066. Station no. 1096.
96948. No. 9067. Station no. 1097.
96949. No. 9068. Station no. 1098.
96950. No. 9069. Station no. 1099. Medium size, nearly round, olive with black hilum; heavily mottled with black.
96951 and 96952. Medium size, straw-yellow with black hilum; heavily mottled with black.
96952. No. 9071. Station no. 1101.
96953 and 96954. Medium small, straw- to olive-yellow with black hilum; heavily mottled with black.
96953. No. 9072. Station no. 1102.
96954. No. 9073. Station no. 1103.
96955 to 96957. Medium large, straw-yellow with black hilum; slightly mottled with black.
96955. No. 9074. Station no. 1104.
96956. No. 9075. Station no. 1105.
96957. No. 9076. Station no. 1106.
96958. No. 9077. Station no. 1107. Medium size, straw-yellow with black hilum.
96959 to 96961. Medium size, straw-yellow with dark-brown hilum; mottled with brown.
96959. No. 9078. Station no. 1108.
96960. No. 9079. Station no. 1109.
96961. No. 9080. Station no. 1110.
96962. No. 9081. Station no. 1111. Medium small, nearly round, straw-yellow with black hilum; mottled with black.
96963. No. 9082. Station no. 1112. Medium size; straw-yellow with dark-brown hilum; mottled with dark brown.

96530 to 97251—Continued
96530 to 97251—Continued

96964. No. 9083. Station no. 1113. Medium size, nearly round, straw-yellow with brown hilum; slightly mottled with brown; seed coat split.

96965. No. 9084. Station no. 1114. Medium size, straw-yellow with black hilum; mottled with black.

96966. No. 9085. Station no. 1115. Medium size, nearly round, straw-yellow with dark-brown hilum; mottled with dark brown.

96967. No. 9086. Station no. 1116. Medium size, straw-yellow with dark-brown hilum.

96968. No. 9087. Station no. 1117. Medium size, straw-yellow with dark-brown hilum;

96969. No. 9088. Station no. 1118. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

96970. No. 9089. Station no. 1119. Medium large, straw-yellow with dark-brown hilum; seed coat somewhat split.

96971. No. 9090. Station no. 1120. Medium size, straw-yellow with brown hilum; somewhat mottled with brown.

96972 and 96973. Medium large, straw-yellow with black hilum; mottled with brown and black;

96974. No. 9091. Station no. 1121. Seed coat very much split.

96975 and 96976. Straw-yellow with brown hilum; mottled with brown; seed coat badly split.

96977. No. 9092. Station no. 1122. Seed coat much split.

96978 to 96979. Medium size, straw-yellow with dark-brown hilum; seed coat slightly wrinkled and split.

96980. Station no. 1123. Medium large, straw-yellow with dark-brown hilum; seed coat slightly split.

96981. No. 9093. Station no. 1124. Medium size, straw-yellow with brown hilum; mottled with brown.

96982. No. 9094. Station no. 1125. Medium large, straw-yellow with dark-brown hilum; heavily mottled with dark brown.


96984. No. 9103. Station no. 1133. Medium size, straw-yellow with large dark-brown hilum; slightly mottled with brown.

96985. No. 9104. Station no. 1134. Medium size, nearly round, straw-yellow with dark-brown hilum; slightly mottled with brown.

96986. No. 9105. Station no. 1135. Medium size, olive-yellow with brown hilum; heavily mottled with dark brown.

96987. No. 9106. Station no. 1136. Medium size, olive-yellow with dark-brown hilum; slightly mottled with dark brown.

96988. No. 9107. Station no. 1137. Medium large, straw-yellow with dark-brown hilum; slightly mottled with dark brown.

96989. No. 9108. Station no. 1138. Medium size, straw-to olive-yellow with dark-brown hilum; heavily mottled with dark brown.

96990 and 96991. Medium size, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

96992. No. 9111. Station no. 1141. Medium size, straw-yellow with dark-brown hilum; slightly mottled with brown.

96993 and 96994. Medium large, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

96995. No. 9112. Station no. 1142. Heavily mottled with dark brown.


96997. No. 9114. Station no. 1144. Medium size, straw-yellow with dark-brown hilum; slightly mottled with dark brown.

96998. No. 9115. Station no. 1145. Very small, nearly round, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

96999. No. 9116. Station no. 1146. Small size, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

97000. No. 9117. Station no. 1147. Medium size, straw-yellow with dark-brown hilum; slightly mottled with dark brown.

97001. No. 9118. Station no. 1148. Small size, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

97002 to 97003. Medium small, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

97004. No. 9120. Station no. 1150. Large size.

97005. No. 9121. Station no. 1151. Medium size.

97006 and 97007. Medium small, straw-yellow with dark-brown hilum; heavily mottled with brown.

97008. No. 9122. Station no. 1152. Hilum and mottling are both dark brown.
PLANT MATERIAL INTRODUCED

96530 to 97251—Continued

97004. No. 9123. Station no. 1153. Medium size, straw- to olive-yellow with brown hilum; mottled with brown.

97005. No. 9124. Station no. 1154. Medium size, straw-yellow with brown hilum; mottled with brown.

97006. No. 9125. Station no. 1155. Medium size, straw-yellow with pale hilum; mottled with brown.

97007. No. 9126. Station no. 1156. Large size, straw-yellow with pale hilum; heavily mottled with brown.

97008 and 97009. Straw-yellow with dark-brown hilum; mottled with brown.

97008. No. 9127. Station no. 1157. Medium large.

97009. No. 9128. Station no. 1158. Medium size.

97010 and 97011. Medium size, straw-yellow with brown hilum; mottled with brown.

97010. No. 9129. Station no. 1159.

97011. No. 9130. Station no. 1160.

97012. No. 9131. Station no. 1161. Medium large, straw- to olive-yellow with brown hilum; heavily mottled with brown.

97013. No. 9132. Station no. 1162. Medium size, straw-yellow with brown hilum; mottled with brown.

97014. No. 9133. Station no. 1163. Medium size, straw- to olive-yellow with brown hilum; mottled slightly with brown.

97015. No. 9134. Station no. 1164. Large size, straw- to olive-yellow with light-brown hilum; mottled with brown; seed coat more or less split.

97016 and 97017. Medium size, straw-yellow with brown hilum; heavily mottled with brown.

97016. No. 9135. Station no. 1165.

97017. No. 9136. Station no. 1166.

97018 and 97019. Medium size, straw-yellow with brown hilum; hea
dy mottled with brown.


97020. No. 9139. Station no. 1169. Medium size, straw- to olive-yellow with dark-brown hilum; mottled with dark brown.

97021. No. 9140. Station no. 1170. Medium small, nearly round, straw-yellow with dark-brown hilum; mottled with brown.

97022. No. 9141. Station no. 1171. Medium size, straw-yellow with brown hilum; hea
dy mottled with brown.

97023 and 97024. Straw-yellow with dark-brown hilum; slightly mottled with dark brown.

97023. No. 9142. Station no. 1172. Medium large.

97024. No. 9143. Station no. 1173. Medium large.

97025. No. 9144. Station no. 1174. Medium size, slightly flattened, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

97026 to 97251—Continued

97026. No. 9145. Station no. 1175. Medium size, straw-yellow with dark-brown hilum; mottled with dark brown.

97027. No. 9146. Station no. 1176. Medium size, straw-yellow with brown hilum; mottled with brown.

97028. No. 9147. Station no. 1177. Medium size, straw-yellow with dark-brown hilum; slightly mottled with brown.

97029 and 97030. Medium size, straw-yellow with brown hilum; mottled with brown.

97029. No. 9148. Station no. 1178.

97030. No. 9149. Station no. 1179.

97031. No. 9150. Station no. 1180. Medium large, straw-yellow with light-brown hilum; slightly mottled with dark brown; seed coat slightly cracked.

97032. No. 9151. Station no. 1181. Medium size, straw-yellow with pale hilum; mottled with brown.

97033. No. 9152. Station no. 1182. Medium large, straw-yellow with light-brown hilum; slightly mottled with dark brown.

97034 and 97035. Medium size, straw-yellow with pale hilum; hea
dy mottled with dark brown.

97034. No. 9153. Station no. 1183.

97035. No. 9154. Station no. 1184.

97036 and 97037. Medium size, nearly round, straw-yellow with dark-brown hilum; mottled with dark brown.

97036. No. 9155. Station no. 1185. Slightly mottled.


97038 to 97040. Medium size, straw-yellow with pale hilum; mottled with brown.


97039. No. 9158. Station no. 1188.


97041 and 97042. Straw-yellow, slightly mottled with brown.

97041. No. 9160. Station no. 1190. Very small; pale hilum.

97042. No. 9161. Station no. 1191. Medium size; brown hilum.

97043 to 97046. Medium size, straw-yellow with brown hilum; mottled with brown.

97043. No. 9162. Station no. 1192.

97044. No. 9163. Station no. 1193.

97045. No. 9164. Station no. 1194.

97046. No. 9165. Station no. 1195. Heavily mottled with brown.

97047 and 97048. Medium size, straw-yellow with brown hilum.

97047. No. 9166. Station no. 1196.

97048. No. 9167. Station no. 1197. Slightly mottled with brown.

97049. No. 9168. Station no. 1198. Medium size, straw- to olive-yellow with pale hilum; mottled with brown; seed coat somewhat split.
96530 to 97251—Continued

97050. No. 9169. Station no. 1199. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

97051. No. 9170. Station no. 1200. Medium size, straw-to olive-yellow with pale hilum; heavily mottled with brown.

97052 to 97056. Medium size, straw-yellow with brown hilum; mottled with brown.

97052. No. 9171. Station no. 1201. Slightly mottled.

97053. No. 9172. Station no. 1202. Heavily mottled.

97054. No. 9173. Station no. 1203. Slightly mottled.


97056. No. 9175. Station no. 1205. Slightly mottled.

97057 and 97058. Medium size, straw-yellow with light-brown hilum; mottled with brown.

97057. No. 9176. Station no. 1206. Slightly mottled.

97058. No. 9177. Station no. 1207.

97059. No. 9178. Station no. 1208. Medium size, straw-yellow with brown hilum; heavily mottled with brown; seed coat more or less split.

97060 to 97068. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

97060. No. 9179. Station no. 1209.

97061. No. 9180. Station no. 1210.

97062. No. 9181. Station no. 1211.

97063. No. 9182. Station no. 1212.

97064. No. 9183. Station no. 1213. Medium small, straw-yellow with brown hilum; mottled with brown.

97065. No. 9184. Station no. 1214. Medium size, straw-yellow with brown hilum; heavily mottled with brown; seed coat more or less split.

97066. No. 9185. Station no. 1215. Medium small, straw-yellow with brown hilum; heavily mottled with brown.

97067. No. 9186. Station no. 1216. Medium size, straw-yellow with brown hilum.

97068. No. 9187. Station no. 1217. Medium size, straw-yellow with brown hilum; slightly mottled with brown; seed coat more or less split.

97069. No. 9188. Station no. 1218. Medium size, straw-yellow with brown hilum; mottled with brown; seed coat slightly split.

97070 to 97072. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

97070. No. 9189. Station no. 1219.

97071. No. 9190. Station no. 1220.

97072. No. 9191. Station no. 1221. Seed coat slightly split.

97073. No. 9192. Station no. 1222. Medium size, nearly round straw-yellow with brown hilum; mottled with brown.

97074 to 97251—Continued

97074. No. 9193. Station no. 1223. Medium size, straw-yellow with brown hilum; heavily mottled with brown; seed coat slightly split.

97075. No. 9194. Station no. 1224. Medium large, straw-to olive-yellow with pale hilum; mottled with brown; seed coat more or less split.

97076. No. 9195. Station no. 1225. Medium size, straw-yellow with brown hilum; heavily mottled with brown.

97077 and 97078. Straw-yellow with brown hilum; mottled with brown.

97077. No. 9196. Station no. 1226. Medium small.

97078. No. 9197. Station no. 1227. Medium size.

97079 to 97081. Straw-yellow with brown hilum; slightly mottled with brown.

97079. No. 9198. Station no. 1228. Medium size.

97080. No. 9199. Station no. 1229. Medium size.

97081. No. 9200. Station no. 1230. Medium small.

97082. No. 9201. Station no. 1231. Medium size, straw-yellow with brown hilum; slightly mottled with brown; seed coat more or less split.

97083. No. 9202. Station no. 1232. Straw-yellow with brown hilum; mottled with brown.

97084. No. 9203. Station no. 1233. Medium size, slightly flattened, straw-yellow with brown hilum.

97085. No. 9204. Station no. 1234. Medium size, straw-yellow with brown hilum; mottled with brown.

97086. No. 9205. Station no. 1235. Medium size, light straw-yellow with brown hilum; seed coat slightly split.

97087 and 97088. Medium size, straw-yellow with light-brown hilum.

97087. No. 9206. Station no. 1236.

97088. No. 9207. Station no. 1237. Slightly mottled with brown; seed coat slightly split.

97089 and 97090. Medium size, straw-yellow with brown hilum; mottled with brown.

97089. No. 9208. Station no. 1238.

97090. No. 9209. Station no. 1239. Slightly mottled.

97091. No. 9210. Station no. 1240. Medium small, straw-yellow with brown hilum.

97092. No. 9211. Station no. 1241. Medium size, straw-yellow with light-brown hilum; slightly mottled with brown.

97093 to 97095. Medium size, straw-yellow with brown hilum.

97093. No. 9212. Station no. 1242. Seed coat slightly split.

97094. No. 9213. Station no. 1243. Mottled with brown.

97095. No. 9214. Station no. 1244. Heavily mottled with brown.

97096 and 97097. Medium size, straw-yellow with light-brown hilum; mottled with brown.
96530 to 97251—Continued

97086. No. 9215. Station no. 1245.
Slightly mottled.

97086 to 97100. Medium size, straw-yellow with brown hilum; mottled with brown.

97086. No. 9217. Station no. 1247.
Slightly mottled and seed coat slightly split.

97098 to 97100. Medium size, straw-yellow with brown hilum; mottled with brown.

97098. No. 9217. Station no. 1247.
Slightly mottled and seed coat slightly split.

97098. No. 9218. Station no. 1248.
Slightly mottled.

97099. No. 9219. Station no. 1249.
Heavily mottled.

97101 and 97102. Straw yellow with brown hilum; slightly mottled with brown.

97101. No. 9220. Station no. 1250. Medium large.

97101 to 97102. Straw yellow with brown hilum; slightly mottled with brown.

97101. No. 9221. Station no. 1251. Medium small.

97103 and 97104. Straw yellow with pale hilum; mottled with brown.

97103. No. 9222. Station no. 1252. Medium size, seed coat more or less split.


97105 and 97106. Medium large, straw-yellow with light-brown hilum; mottled with brown; seed coat split.


97105. No. 9225. Station no. 1255. Slightly mottled.

97107. No. 9226. Station no. 1256. Medium large, nearly round, straw-yellow with dark-brown hilum; slightly mottled with dark brown; seed coat badly wrinkled and split.

97108. No. 9227. Station no. 1257. Medium large, straw-yellow with dark-brown hilum; heavily mottled with brown; seed coat badly wrinkled and split.

97109. No. 9228. Station no. 1258. Medium large, straw-yellow with light-brown hilum; slightly mottled with brown; seed coat slightly split.

97110. No. 9229. Station no. 1259. Medium large, straw to olive-yellow with pale hilum; slightly mottled with brown; seed coat more or less split.

97111 and 97112. Medium size, straw-yellow with light-brown hilum; mottled with brown.

97111. No. 9230. Station no. 1260. Heavily mottled and seed coat badly split.

97112. No. 9231. Station no. 1261. Seed coat slightly split.

97113. No. 9232. Station no. 1262. Medium size, straw to olive-yellow with light-brown hilum; mottled with brown.

97114. No. 9233. Station no. 1263. Medium size, straw-yellow with pale hilum; mottled with brown.

97115 and 97116. Straw yellow with pale hilum; slightly mottled with brown.

97115. No. 9234. Station no. 1264. Medium large, seed coat slightly split.
<table>
<thead>
<tr>
<th>Station No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>97189</td>
<td>Slightly mottled, seed coat more or less split.</td>
</tr>
<tr>
<td>97190</td>
<td>Heavily mottled.</td>
</tr>
<tr>
<td>97191-97194</td>
<td>Medium size, straw-yellow with pale hilum; mottled with brown.</td>
</tr>
<tr>
<td>97195</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97196-97197</td>
<td>Medium size, straw-yellow with light-brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97198</td>
<td>Heavily mottled, seed coat badly split.</td>
</tr>
<tr>
<td>97199-97202</td>
<td>Medium size, straw-yellow with brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97203</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97204-97205</td>
<td>Medium size, straw-yellow with light-brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97206</td>
<td>Heavily mottled, seed coat slightly split.</td>
</tr>
<tr>
<td>97207</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97208-97209</td>
<td>Medium size, straw-yellow with pale hilum; slightly mottled with brown.</td>
</tr>
<tr>
<td>97210</td>
<td>Heavily mottled, seed coat slightly split.</td>
</tr>
<tr>
<td>97211</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97212-97213</td>
<td>Medium size, straw-yellow with light-brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97214</td>
<td>Heavily mottled, seed coat slightly split.</td>
</tr>
<tr>
<td>97215</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97216-97217</td>
<td>Medium size, straw-yellow with pale hilum; slightly mottled with brown.</td>
</tr>
<tr>
<td>97218</td>
<td>Heavily mottled, seed coat badly split.</td>
</tr>
<tr>
<td>97219</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97220-97221</td>
<td>Medium size, straw-yellow with light-brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97222</td>
<td>Heavily mottled, seed coat slightly split.</td>
</tr>
<tr>
<td>97223</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97224-97225</td>
<td>Medium size, straw-yellow with light-brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97226</td>
<td>Heavily mottled, seed coat badly split.</td>
</tr>
<tr>
<td>97227</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97228-97229</td>
<td>Medium size, straw-yellow with pale hilum; slightly mottled with brown.</td>
</tr>
<tr>
<td>97230</td>
<td>Heavily mottled, seed coat badly split.</td>
</tr>
<tr>
<td>97231</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97232-97233</td>
<td>Medium size, straw-yellow with light-brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97234</td>
<td>Heavily mottled, seed coat slightly split.</td>
</tr>
<tr>
<td>97235</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97236-97237</td>
<td>Medium size, straw-yellow with brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97238</td>
<td>Heavily mottled, seed coat badly split.</td>
</tr>
<tr>
<td>97239</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97240-97241</td>
<td>Medium size, straw-yellow with light-brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97242</td>
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</tr>
<tr>
<td>97243</td>
<td>Slightly mottled.</td>
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<tr>
<td>97244-97245</td>
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</tr>
<tr>
<td>97246</td>
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</tr>
<tr>
<td>97247</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97248-97249</td>
<td>Medium size, straw-yellow with light-brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97250</td>
<td>Heavily mottled, seed coat badly split.</td>
</tr>
<tr>
<td>97251</td>
<td>Slightly mottled.</td>
</tr>
<tr>
<td>97252-97253</td>
<td>Medium size, straw-yellow with light-brown hilum; mottled with brown.</td>
</tr>
<tr>
<td>97254</td>
<td>Heavily mottled, seed coat slightly split.</td>
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</tbody>
</table>
96530 to 97251—Continued

97183. No. 9302. Station no. 1332. Medium large, straw-yellow with brown hilum.

97184. No. 9303. Station no. 1333. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

97185. No. 9304. Station no. 1334. Medium size, straw-to olive-yellow with brown hilum; heavily mottled with brown.

97186. No. 9305. Station no. 1335. Medium size, straw-yellow with light-brown hilum; mottled with brown.

97187 and 97188. Medium size, straw-yellow with brown hilum; mottled with brown.

97187. No. 9306. Station no. 1336.


97189 to 97192. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

97189. No. 9308. Station no. 1338.

97190. No. 9309. Station no. 1339.

97191. No. 9310. Station no. 1340. Heavily mottled, seed coat split.

97192. No. 9311. Station no. 1341. Seed coat split.

97193. No. 9312. Station no. 1342. Medium size, straw-yellow with pale hilum; seed coat split.

97194 and 97195. Medium size, straw-yellow; slightly mottled with brown.


97195. No. 9314. Station no. 1344. Pale hilum.

97196. No. 9315. Station no. 1345. Medium size, light straw-yellow with pale hilum; mottled with brown.

97197 and 97198. Medium size, straw-yellow with light-brown hilum; mottled with brown.

97197. No. 9316. Station no. 1346.

97198. No. 9317. Station no. 1347.

97199 to 97201. Medium size, straw-yellow with pale hilum; mottled with brown.

97199. No. 9318. Station no. 1348. Seed coat split.

97200. No. 9319. Station no. 1349. Slightly mottled.

97201. No. 9320. Station no. 1350. Slightly mottled.

97202 and 97203. Medium size, straw-yellow with light-brown hilum; mottled with brown.

97202. No. 9321. Station no. 1351.

97203. No. 9322. Station no. 1352.

97204 and 97205. Medium size, straw-yellow with light-brown hilum; mottled with brown; some purple spot.


97206 and 97207. Medium size, straw-yellow; mottled with brown.

96530 to 97251—Continued

97206. No. 9325. Station no. 1355. Light-brown hilum.

97207. No. 9326. Station no. 1356. Pale hilum.

97208 to 97211. Medium size, straw-yellow with light-brown hilum; slightly mottled with brown.

97208. No. 9327. Station no. 1357.

97209. No. 9328. Station no. 1358.

97210. No. 9329. Station no. 1359.

97211. No. 9330. Station no. 1360.

97212. No. 9331. Station no. 1361. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

97213 and 97214. Medium size, straw-yellow with light-brown hilum; mottled with brown.

97213. No. 9332. Station no. 1362.

97214. No. 9333. Station no. 1363.

97215. No. 9334. Station no. 1364. Medium size, straw-yellow with pale hilum; mottled with brown; seed coat slightly split.

97216 to 97218. Medium size, straw-yellow with pale hilum; slightly mottled with brown.

97216. No. 9335. Station no. 1365.

97217. No. 9336. Station no. 1366.

97218. No. 9337. Station no. 1367.

97219. No. 9338. Station no. 1368. Medium size, straw-yellow with light-brown hilum; heavily mottled with brown.

97220. No. 9339. Station no. 1369. Medium small, straw-to olive-yellow with brown hilum; heavily mottled with brown.

97221 and 97222. Medium size, straw-yellow with light-brown hilum; slightly mottled with brown.

97221. No. 9340. Station no. 1370.

97222. No. 9341. Station no. 1371.

97223 to 97226. Straw-yellow with light-brown hilum; mottled with brown.

97223. No. 9342. Station no. 1372. Medium size, heavily mottled.

97224. No. 9343. Station no. 1373. Medium small.

97225. No. 9344. Station no. 1374. Medium small, heavily mottled.

97226. No. 9345. Station no. 1375. Medium size, slightly mottled.

97227. No. 9346. Station no. 1376. Medium size, nearly round, straw-yellow with pale hilum; slightly mottled with brown; seed coat badly cracked.

97228 and 97229. Medium size, straw-yellow with dark-brown hilum; heavily mottled with dark brown.

97228. No. 9347. Station no. 1377.

97229. No. 9348. Station no. 1378.

97230. No. 9349. Station no. 1379. Medium small, straw-yellow with pale hilum; slightly mottled with brown.

97231. No. 9350. Station no. 1380. Medium size, straw-yellow with brown hilum; seed coat slightly cracked around hilum.
97232 to 97234. Medium size, straw-yellow with light-brown hilum; mottled with brown.


97235. No. 9354. Station no. 1384. Affected with purple spot.

97236. No. 9355. Station no. 1385. Seed coat split.

97237. No. 9356. Station no. 1386.

97238. No. 9357. Station no. 1387. Seed coat badly split.

97239. No. 9358. Station no. 1388.

97240. No. 9359. Station no. 1389.

97241. No. 9360. Station no. 1390.

97242. No. 9361. Station no. 1391.

97243. No. 9362. Station no. 1392. Some purple spot.

97244. No. 9363. Station no. 1393. Medium size, straw-yellow with brown hilum; slightly mottled with brown.

97245. No. 9364. Station no. 1394. Medium size, straw-yellow with light-brown hilum; mottled with brown.

97246. No. 9365. Station no. 1395. Medium size, straw-to olive-yellow with pale hilum; mottled with brown; seed coat slightly split.

97247 to 97251. Medium size, straw-yellow with light-brown hilum; mottled with brown.

97247. No. 9366. Station no. 1396. Heavily mottled.


97249. No. 9368. Station no. 1398. Slightly mottled, seed coat slightly split.

97250. No. 9369. Station no. 1399. Seed coat badly split.

97251. No. 9370. Station no. 1400. Slightly mottled.

97252. CYPHOMANDRA BETACEA (CRV.) Sendt. Solanaceae. Tree-tomato.

From New Zealand. Seeds presented by Dr. O. Earp Thomas, Wellington. Received February 9, 1932.

A sport of a black variety of the tree-tomato, which becomes 6 feet high. The entire leaves have a disagreeable odor if touched, and the violet-colored tomatolike flowers are followed by oval blue-black fruits over 2 inches long. The fruit ripens in the winter where frosts are not severe and is superior to the ordinary variety.

97253. PRUNUS DOMESTICA L. Amygdalaceae. Common plum.

From Chevy Chase, Md. Scions presented by A. Hrdlicka, United States National Museum. Received February 9, 1932.

This prune, received from Czechoslovakia by Dr. Hrdlicka, appears very similar to the French prune in character of fruit, but the latter does not succeed in the climate of Washington, whereas Dr. Hrdlicka’s tree bears well annually, and the fruit seems almost immune from the attacks of curculio and other pests. The ripening season is September and October.

For previous introduction see 91725.

97254. PTERARIA COLLETTII Prain (P. siamica Craib). Fabaceae.

From Siam. Seeds presented by Dr. E. H. Smith, Department of Fisheries, Ministry of Lands and Agriculture, Bangkok. Received February 11, 1932.

A more or less shrubby tropical perennal 5 or 6 feet high, with leaves composed of thick velvety pubescent leaflets, and purplish flowers 4 inches long in axillary racemes. Native to Upper Burma.

97255. ASYSTASIA GANGETICA (L.) T. Anders. Acanthaceae.


A zigzag subshrub 1 to 4 feet tall, native to India. The cordate to oval leaves are 1 to 4 inches long, and the yellow, dingy-white or dark-violet flowers are narrow below and inflated above.

For previous introduction see 87139.

97256 and 97257.

From India. Seeds presented by W. Keola, Himalayan Research Institute, Nagar Kuli, Punjab. Received February 11, 1932.


A thick-skinned lemon collected at Taklesh, Rampur.

97257. CITRUS SINENSIS (L.) Osbeck. Rutaceae. Orange.

From Japan. Seeds presented by F. Seib, director, Government Research Institute, Department of Forestry, Taiboko, Taiwan. Received February 12, 1932.

Collected in the Sinchiku Prefecture, Taiwan. This resembles Zelkova occidentata, differing chiefly in the shape of the achenes, which have less prominent margins. It is a somewhat simile tree with leathery narrow leaves of variable shape, up to 4 inches long. Native to Taiwan.


From Cuba. Seeds presented by Dr. D. L. Van Dine, local director, Tropical Plant Research Foundation, Central Barag, Baraguí. Received February 10, 1932.

Collected November 20, 1831, at Inageba Jababo, Oriente Province.

For previous introduction and description see 36598.

97260 to 97265.

From the West Indies. Scions collected by David Fairchild and P. H. Dore, agricultural explorers, Bureau of Plant In-
97260 to 97265—Continued

Dustry, with the 1931-32 Allison V. Ar-
mour expedition. Received February 8, 1932.

From the Dominica Botanic Garden, Dominica, Leeward Islands. Presented by
F. G. Harcourt, agricultural curator and
superintendent, Agricultural Department, January 26, 1932.

97260 to 97264. CITRUS spp. Rutaceae.

97260. CITRUS AURANTIUM L. Seville orange.

No. 2714.

97261. to 97264. CITRUS AURANTIFOLIA (Christm.) Swingle. Lime.

97261. No. 2708. Harcourt Hybrid No. 49. A cross between the Wogl-

97269. BRACHYMERTH JAPONICA (Jacq.) Kurz. The fruit is as

97280 to 97290. Phoenixaceae. Palm.

97280. BACTRIS PAVONIANA Mart.

No. 2648. Collected January 26, 1932, in the Botanic Garden, Dominica, Leeward Islands. A beautiful palm, 50 feet tall, with feathery leaves more striking than those of the Royal palm. The trunk of old trees are smooth, but those of young trees are covered with bands of black spines which later fall off. The leaves are also armed with black spines. The fruit is as large as a walnut. This is apparently an almost extinct species. Blubber Valley is the only place where it is found.

97281. RHYTICOCOS AMARA (Jacq.) Beccari.

No. 2702. Collected January 26, 1932, in the Botanic Garden, Dominica, Leeward Islands. A very tall slender feather palm, 60 to 70 feet high and only 9 inches in diameter at the base. Native to Nicobar Islands, India.

97271. Gladiateur.

97272. INDIGO. A variety with indigo-

blue flowers.

97273. Perle Rose. A variety with nice carmine-rose flowers.

97274. Ringuet-Guindon.

97275. Richesse. A variety with pure rose flowers.

97276. Roses carmineux. A variety with carmine-pink flowers.

97277. LIQUISTUM JAPONICUM Thu-n-b. Oleaceae. Privet.

A deciduous shrub or small tree, closely related to L. compactum, native to southwestern China. The branchlets have conspicuous white lenticels, the lanceolate leaves are about 1 foot long, and the small white flowers are followed by bluish-black fruits.

97278. LIQUISTUM JAPONICUM Thu-n-b. Oleaceae. Privet.

Mme. H. Lemoine.


97280. From the West Indies. Seeds collected by

97280. From the West Indies. Seeds collected by

David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant In-
dustry, with the 1931-32 Allison V. Ar-
mour expedition. Received February 8, 1932.

97280. From the West Indies. Seeds collected by

David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant In-
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97280 to 97291—Continued

97283. COCCOTHINAX sp.
No. 2597. Collected January 15, 1932, at Great Inagua, Bahamas.

97284. EUTERPE EDULIS Mart. Para palm.
No. 2703. Collected January 28, 1932, in the Botanic Garden, Dominica. A palm, native to Brazil, 40 feet high, with a slender inclined trunk, pinnate leaves, and fruits the size of marbles. A nutritious beverage is made by the natives from the fibrous flesh surrounding the seeds.

For previous introduction see 79539.

97285. EUTERPE sp.
No. 2711. Collected February 2, 1932, at Bar de l'Isle, St. Lucia, Windward Islands. A slender undergrowth palm of South America, also called the cabbage palm. It grows to a height of 130 feet, with a diameter of 2 1/2 feet, and is a far statelier palm than R. regia, which is usually grown as a dwarf in cultivation with stout branches and spirally alternate obsolete leaves one third inch long. The small brownish flowers, solitary in the axis, are followed by orange fruits one fourth inch in diameter which open upon drying and show an attractive glistening white arillus.

For previous introduction see 79484.

97286. ROYSTONEA OLERACEA (Jacq.).
No. 2676. Collected January 31, 1932, at Mount Joy, Dominica, the home of Stephen Haweis. The great Bluestem palmetto. It grows to a height of 130 feet, with a diameter of 2 1/2 feet, and is a far statelier palm than R. regia, which is usually grown as a dwarf in cultivation with stout branches and spirally alternate obsolete leaves one third inch long. The small brownish flowers, solitary in the axis, are followed by orange fruits one fourth inch in diameter which open upon drying and show an attractive glistening white arillus.

For previous introduction see 79484.

97287. PINANGA KUHLLII Blume.
No. 2677. From the Botanic Garden, Dominica, January 29, 1932. A stout rapid-growing palm native to the lower altitudes of western Java, becoming 25 to 50 feet high, with annulate stems 2 inches in diameter red-dish when young, and beautiful terminal fronds with pinnate blades 4 feet long and half an inch wide. This is one of the hardiest species of Pinanga known.

For previous introduction see 81689.

97288. PITYCHOSTEPHUS MACARTHERI Wendl.
No. 2678. Collected in the Botanic Garden, Dominica, January 29, 1932. A palm, native to Australia, which grows to a height of 30 feet, but is usually a dwarf in cultivation with suckers from the base, making a bushy plant. The smooth-tapered trunk is crowned by a dense cluster of pinnate leaves with arching leaflets 6 to 9 inches long.

For previous introduction see 93417.

97289. SARAL GLABRA (Mill.) Sarg. (S. adansonii Guer.). Buestem palmetto.
No. 2671. From the Botanic Garden, Dominica, January 29, 1932. An attractive palm 50 feet high. The smooth tapering trunk is marked at regular intervals with scars.

97290. SARAL GLACUROSCENS Lodd. Faimetto.

97291. MAYTENUS REYNOSIOIDES Urb. Celastraceae.
No. 2613. Collected January 18, 1932, on dry rocks on Beata Island, Dominican Republic. A shrub 10 to 15 feet high with stout branches and spirally alternate obsolete leaves one third inch long. The small brownish flowers, solitary in the axis, are followed by orange fruits one fourth inch in diameter which open upon drying and show an attractive glistening white arillus.

From Africa. Seeds presented by C. Starke & Co., Ltd., Mowbray, Cape Town, through Mrs. C. I. DeBoevoise, Greens Farms, Conn. Received February 11, 1932.

97292. GLOTTIPPYLLUM DEPRESSUM (Jacq.) N. E. Brown (Mesembryanthemum depressum Haw.). Figgarcoid.
A stemless prostrate succulent, native to southern Africa, with narrow tongue-shaped, recurved-depressed acute leaves, and yellow flowers with petals somewhat recurved.

For previous introduction see 79484.

97293. GLOTTIPPYLLUM sp.
97294. HERREA STANLEYII Hort.
A name for which a place of publication and a description have not been found. A trade catalog describes it as a handsome stemless succulent with large bright-yellow flowers.

97295. PUNCTILARIA MAGNIFIPUNCTATA N. E. Brown.
A plant forming clumps of 3 to 4 inches high. The leaves, normally in one or two pairs, are very stout, ascending-spreand, 1 to 3 inches long and up to an inch thick at the base, enlarging above, nearly flat on the face, convex, and bluntly keeled on the back. Native to the Karoo region of southern Africa.

97296. PUNCTILARIA NOBILE Hort.
A name for which a place of publication and a description have not been found. A trade catalog describes it as a handsome stemless succulent with large bright-yellow flowers.

From Africa. Scions presented by J. B. Pissias, Chef du Jardin d'Essais, Sfax, Tunisia. Received February 11, 1932.

97297. CRATONIA SILIQUA L. Caesalpinaceae. Carob.
97298 to 97301. MALUS spp. Malaceae.
97298. MALUS sp. Aigre.
97299. MALUS sp. Halou (Douce).
97300. MALUS sp. Meski.
97301. MALUS sp.
From Palestine. Seeds presented by the Jewish Colonization Association, Haifa, at the request of Prof. R. W. Hodgson, University of California. Received February 2, 1932.

A wild shrub common in the Mediterranean regions where it grows on poor soil and withstands severe drought. It produces a gum used by the Arabs as a perfume; and an edible oil known as shinia, used as a substitute for olive oil, is obtained from the berries.

For previous introduction see 54694.

A deciduous tree up to 35 feet high, with pinnate foliage. It is sometimes used as a stock for Pissada vera, native to the eastern Mediterranean region.

For previous introduction see 81355.

A small tree or bush from 4 to 6 feet high, which grows in limestone soil up to 2,000 feet altitude in the eastern Mediterranean region. It is used as a stock on which to graft the better varieties of cultivated pistache.

For previous introduction see 95068.

From the West Indies. Seeds collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry. Received February 2, 1932.

A small tree or bush from 4 to 6 feet high, which grows in limestone soil up to 2,000 feet altitude in the eastern Mediterranean region. It is used as a stock on which to graft the better varieties of cultivated pistache.

A legume which may have value as a green manure.


No. 21. Collected on Rum Key, Bahamas, January 7, 1932. An ornamental shrub or small tree with very small compound leaves and numerous thin red-brown seed pods about one-half inch wide and 2 to 3 inches long.

A legume with brown-red flowers.

A deciduous tree up to 35 feet high, with pinnate foliage. It is sometimes used as a stock for Pissada vera, native to the eastern Mediterranean region.

For previous introduction see 95068.

A small tree or bush from 4 to 6 feet high, which grows in limestone soil up to 2,000 feet altitude in the eastern Mediterranean region. It is used as a stock on which to graft the better varieties of cultivated pistache.

For previous introduction see 95068.
97317 to 97323—Continued

No. 5. A larger type than No. 4.
No. 1. From Acapulco, Mexico, December 17, 1931. A small round red tomato, 1 1/2 to 2 inches in diameter; bought in the market.
Bought in the market at Santiago, Chile, January 11, 1932.
97323. No. 3. A gray bean.

97324 to 97329.

97324. Litsea sp. Magnoliaceae. No. 29966.
97326. Manglietia fordii W. W. Smith. Magnoliaceae. No. 30430. A tree sometimes 50 feet high, with rather stiff oblong-lanceolate acuminate leaves about 9 inches long and fragrant white flowers with nine or ten oblong sepals 2 to 3 inches long. Native to Yunnan, China. This Manglietia is closely allied to M. fordiana, a species from southeastern China.
97328 and 97329. Thea forrestii Diels. Theaceae.
For previous introduction and description see 95560.
From Japan. Seeds presented by T. Mizunchi, director, Agricultural Experiment Station, Fukuoka. Received February 15, 1932.
Motimugi (Dagomuffi). A collection of barley with waxy endosperm, introduced for the use of Department specialists.
97330. No. 1. Purple seed.
97331. No. 2. Purple seed.
97332. No. 3. White seed.
97333. (Undetermined.)
From Africa. Seeds presented by W. L. Thompson, M. D., Mount Sillind, Southern Rhodesia. Received February 10, 1932.
Purchased in the market at Victoria, Southern Rhodesia. A fruit which consists of small nuts growing on a coblike receptacle, like kernels of corn on a cob.

From China. Seeds presented by G. Weidman Goff, Lingnan University, Canton. Received February 15, 1932.
No. 69. Collected January 11, 1932, near Pakhoi.
For previous introduction and description see 99477.
From Brazil. Plants presented by F. C. Camargo, Estacao de Pomicultura de Deodoro, Rio de Janeiro. Received February 15, 1932.
97335. Ananas sativus Schult. f. No. 29/31. A wild pineapple, very abundant in the eastern part of Brazil. The fruits are cylindrical, about 4 inches in diameter and 6 inches long.
97339. Soja max (L.) Piper (Glycine hispida Maxim.). Fabaceae. Soybean.
From Japan. Seed presented by Ishimitsu & Co., Kobe, through Tsutakawa & Co., Seattle, Wash. Received February 16, 1932.
Daizu.
From Germany. Scions presented by C. F. Rudloff, Kaiser Wilhelm Institut, Miincheberg. Received March 11, 1930. Numbered in February 1932.
97341. No. 41. Adana.
97342. No. 46. Adana.
97343. No. 55. Adabayar.
97344. No. 61. Arifil.
97346. No. 63. Arifil.
From Japan. Scions collected by P. H. Dorrsett and W. J. Morse, agricultural explorers, Bureau of Plant Industry. Received March 12, 1930. Numbered in February 1932.
97347. Pyrus sp. No. 4120. Chojuro. A midseason variety received February 15, 1930, from the Agricultural Experiment Station, Tachikawa, Tokyo.
97348. Pyrus sp. No. 4108. Meijetsu. Received February 14, 1930, from the Saitama Ken Agricultural Experiment Station.
### PLANT MATERIAL INTRODUCED

#### 97347 to 97353—Continued

**97349. PYRUS sp.**

No. 4344. *Meigetsu*. A Japanese pear received from the Horticultural Institution, Department of Agriculture, Kyoto Imperial University, Kyoto, February 24, 1930.

**97350. PYRUS sp.**

No. 4112. *Okeanakichti*. Received February 14, 1930 from the Saitama Ken Agricultural Experiment Station.

**97351. PYRUS sp.**

No. 4118. *Shinchu*. An early variety received February 15, 1930, from the Agricultural Experiment Station, Tachikawa, Tokyo.

**97352. PYRUS sp.**

No. 4106. *Wasakka*. Received February 14, 1930, from the Saitama Ken Agricultural Experiment Station.

**97353. PYRUS sp.**

No. 4110. *Wasakka*. Received February 14, 1930, from the Agricultural Experiment Station, Tachikawa, Tokyo. A midseason variety.

### 97354 to 97374. SOLANUM TUBEROSUM

**L. Solanaceae. Potato.**

From the Union of Soviet Socialist Republics. Tubers presented by the Institute of Plant Industry, Sukhum, Caucasus. Received February 10, 1932.

A collection of potatoes developed by Dr. V. P. Alekseev, plant introducer, Sukhum Subtropical Branch of the All-Union Institute of Plant Industry, Sukhum, Caucasus.

<table>
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<tr>
<th>No.</th>
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#### 97375 to 97413—Continued

**97375. RHODODENDRON BAILEYI**

To broadly oblanceolate leaves are 3 inches long, and the lilac-purple flowers with yellow-green spots are 2 to 3 inches across.

**97376. RHODODENDRON BARTATUM × THOMSONII.**

Shilsonii.

**97377. RHODODENDRON CALLIMORPHUM**

Balff. and Smith.

A shrub 4 to 9 feet high, native to western Yunnan, China. The thick leathery leaves 1 to 2 inches long are elliptic to broad, scaly beneath. The flowers are red-purple with darker spots on the three upper petals and are borne in terminal racemose clusters containing up to 14 flowers.

**97378. RHODODENDRON CAMPYLOCARPUM**

A Japanese pear received from the Horticultural Institute of Leningrad. Received February 16, 1932.

**97379. RHODODENDRON CHARITOPES**

A small shrub up to 3 feet high, native to southern Tibet. The obovate leaves 1 to 2 inches long are closely scaly above and are very densely covered beneath with overlapping cinnamon scales. The short broad flowers, one half inch long, are red-purple with darker spots on the three upper petals and are borne in terminal racemose clusters containing up to 14 flowers.

**97380. RHODODENDRON CHARTOPHYLLUM**

Balf. f.

A shrub 4 to 9 feet high, native to western Yunnan, China. The thick leathery leaves 1 to 2 inches long are elliptic to broad, scaly beneath. The flowers are red-purple with darker spots on the three upper petals and are borne in terminal racemose clusters containing up to 14 flowers.

**97381. RHODODENDRON CAMPYLOCARPUS**

A shrub or tree from 15 to 50 feet high, native to western Szechuan, China. The bright green leathery leaves are 8 to 12 inches long, and the rosy-white to red flowers, 2 to 3 inches long, are borne in loose racemose clusters of up to 30.

**97382. RHODODENDRON CALOPHYTUM**

Franch.

A shrub or tree from 15 to 50 feet high, native to western Szechuan, China. The bright green leathery leaves are 8 to 12 inches long, and the rosy-white to red flowers, 2 to 3 inches long, are borne in loose racemose clusters of up to 30.

**97383. RHODODENDRON CAMPOLOCARPA**

X *GRIFFITHIANUM.*

Penjerrick.

**97384. RHODODENDRON CAMPYLOGYNUM**

Franch.

A shrub up to 6 feet high, native to western Burma. The obovate leaves 1 inch long are densely covered above with greenish scales, and the lower surface is pale red with numerous fleshy scales. The widely funnel-shaped flowers, 1 inch long, are bright red purple and are borne in pairs at the ends of the branchlets.

**97385. RHODODENDRON CAMPOLOCARPUS**

X *GRIFFITHIANUM.*

Penjerrick.

**97386. RHODODENDRON CAMPYLOGYNUM**

Franch.

A shrub up to 6 feet high, native to western Burma. The obovate leaves 1 inch long are densely covered above with greenish scales, and the lower surface is pale red with numerous fleshy scales. The widely funnel-shaped flowers, 1 inch long, are bright red purple and are borne in terminal clusters of one to three.

**97387. RHODODENDRON CHARITOPES**

Balff. and Farrer.

A shrub 1 foot high, native to Upper Burma, India. The obovate, bluntly mucronate leaves, 1 to 2 inches long, are glabrous above and glaucous and densely scaly beneath. The broadly tubular flowers, 1 inch long, are clear apple blossom pink speckled with crimson and are borne in threes at the ends of the branchlets.

**97388. RHODODENDRON CHARTOPHYLLUM**

Franch.

*Variety praecox.* A form in which the leaves are completely deciduous.
**JANUARY 1 TO MARCH 31, 1932**

97375 to 97413—Continued

97389. RHODODENDRON CILATUM Hook. f. Fringed rhododendron.

A Himalayan rhododendron of somewhat dwarf habit, bearing many small loose trusses of pink-white flowers less than 3 inches wide. It rarely exceeds 6 feet in height.

For previous introduction see 68343.

97390. RHODODENDRON CURVATUM W. W. Smith.

A small shrub 4 feet high with elliptical-oval leaves, silky brown beneath, and deep lavender flowers.

For previous introduction see 59254.

97391. RHODODENDRON DAVIDSONIANUM Rehd. and Wils. Davidson rhododendron.

A shrub up to 10 feet high, native to western China, with semi-evergreen oblong leaves 1 to 3 inches long, glaucous beneath, and terminal and axillary clusters of lavender-pink flowers an inch across, somewhat resembling those of the nearly related R. macrostylum.

For previous introduction see 78329.

97392. RHODODENDRON EDGESWORTHII Hook. f.

A shrub often epiphytic, 4 to 6 feet high, native to the Himalayas in Sikkim, India. The elliptic-ovate leaves, 4 inches long, are strongly bullate above and densely crinkly-tomentose beneath. The fragrant white or pink-tinted flowers are broadly tubular and 3 to 4 inches long.

97393. RHODODENDRON FORTUNEI Lindl.

A shrub 10 to 12 feet high, native to Chekiang, China. The oblong-elliptic leaves, 3 to 10 inches long, are dark green above and pale glaucous green beneath. The inflorescence is a loosely racemose umbel of 6 to 12 funnel-campanulate, pale-rose flowers 3 to 4 inches across.

97394. RHODODENDRON HIPPOPHAEOIDES Balf. and Smith.

A shrub 3 feet high which grows in swampy meadows. The small elliptical-ellagulate leaves are pale yellow beneath, and the flowers are rich lavender blue.

For previous introduction see 59615.

97395. RHODODENDRON INSIGNE Hemsl. and Wils.

A shrub 5 to 12 feet high, native to Szechwan, China. The leathery oblong-oblong-elliptic leaves, 3 to 6 inches long, are glabrous and dark green above and are covered beneath with a shining tawny-gray tomentum that has a coppery sheen. The flowers, a cluster of eight or more in a short lax corymb, are widely campanulate, 2 inches long, and various shades of pink with crimson spots on the inside.

97396. RHODODENDRON LODERI Millais.

King George. A hybrid between R. fortunei and R. preachingii.

97397. RHODODENDRON MADDENI Hook. f.

A shrub 6 to 8 feet high with red-stemmed, dark-green leaves. The delicately fragrant flowers, tinged with rose, are produced in threes at the ends of the branches. Native to the Himalayas.

For previous introduction see 88345.

97398. RHODODENDRON MOLLICOMUM Balf. and Smith.

A small shrub with softly pubescent branchlets, native to Yunnan, China. The narrowly lanceolate leaves, 1 inch long, are softly pubescent on both surfaces and are also scaly beneath. The narrowly tubular crimson flowers, pubescent outside, are in axillary pairs crowded near the ends of the branchlets.

97399. RHODODENDRON ORBICULARIA De Cand.

A much-branched shrub 6 to 9 feet high and 10 to 13 feet broad, native to Szechwan, China. The orbicular leaves are cordate-auriculate at the base with the lobes overlapping and are bright green above and glaucous-papillate beneath. The rosy campanulate flowers, 2 to 3 inches long, are borne in a loose corymb of 7 to 10.

97400. RHODODENDRON RACEMOSUM Franch. Mayflower rhododendron.

An upright Chinese shrub up to 6 feet high, with scaly branchlets, elliptic to ovate leaves which are glabrous above and glaucous beneath, and few-flowered clusters of pink flowers, so abundantly produced as to completely cover the plant.

For previous introduction see 86761.

97401. RHODODENDRON RETICULATUM D. Don.

For previous introduction and description see 95625.

97402. RHODODENDRON BOYLI Hook. f. (R. cinnabarimum Hook. f.).

The flowers of this evergreen shrub, produced in terminal heads, are usually a dull cinnamon red, but in some forms the whole plant is orange red on the outside and yellowish within. It is native to the mountainous region of Sikkim and Bhutan, India.

For previous introduction see 58923.

97403. RHODODENDRON SOULIKI Franch.

A shrub 6 to 12 feet high, native to western Szechwan, China. The leathery leaves are broadly ovate to orbicular, 2 to 4 inches long, dark green above and light glaucous green beneath. The saucer-shaped, white to deep-rose flowers, 2 inches across, are borne in racemose umbels of five to eight.

97404. RHODODENDRON SPINULIFERUM X RACEMOSUM.

Spinulosum.

97405. RHODODENDRON STRIGILLOSUM Franch.

A shrub 8 to 20 feet high, native to Szechwan, China. The oblong-lanceolate leaves, 3 to 6 inches long, are bright green and smooth above and clothed beneath with scattered crisped hairs, except the prominent midrib, which is covered with loose tawny tomentum. The fleshy tubular-campanulate, deep-red flowers, 8 to 12 in an umbel, are nearly 2 inches long and 2 inches across.
97406. RHODODENDRON SUTCHEWENSE Franch.
A shrub 3 to 10 feet high, native to southwestern China. The narrowly elliptical to oblanceolate leaves, 4 to 10 inches long, are smooth and dark green above and pale and smooth beneath except the midrib, which is covered with a loose woolly tomentum. The widely campanulate flowers, 2 to 3 inches long, are rose pink, spotted deeper rose inside, and are borne in a dense corymbose raceme.

97407. RHODODENDRON THOMSONII × FORTUNEI.
97408. RHODODENDRON THOMSONII × GRIFFITHIANUM. Cornish Cross.
97409. RHODODENDRON WASONII Hemsl. and Wils. (R. rhododactylon Hort.).
A shrub 4 feet high, native to western Szechwan, China. The ovate leaves, 2 to 4 inches long, are dark glossy green above and are clothed beneath with a uniform scurfy felt which is white on the young leaves, but turns later to a bright brown or rusty red. The funnel-campanulate flowers, 2 inches long, are pinkish in this form, but are creamy yellow in the typical form.

97410. RHODODENDRON WILLIAMSIANUM Rend, and Wils. A shrub 3 to 5 feet high with horizontal branches, native to Szechwan, China. The leathery cordate leaves, 2 inches long, are bright green above, and the lower surface is glaucous, papillate, and punctulate with small glands and hairs. The three to five campanulate flowers, 2 inches long, are pale rose without spots.

97411. RHODODENDRON YUNNANENSE Franch. Yunnan rhododendron.
A low shrub, 3 feet or less high, with narrowly elliptic, somewhat hairy leaves, and few-flowered clusters of broadly funnel-shaped flowers, white with the upper lobes spotted blood red. Native to Yunnan, China.

For previous introduction see 94131.

97412. RHODODENDRON sp. Ceylon Cross.
97413. RHODODENDRON sp. Related to R. mocciconum.

97414 to 97422. ZEA MAYS L. Poaceae. Corn.
From Australia. Seeds presented by Dr. H. Wenholz, director of plant breeding, Department of Agriculture, Sydney, New South Wales. Received February 18, 1932.

A collection of Fitzroy corn from the Grafton Experiment Station, New South Wales, introduced for the use of Depart-ment specialists.

97414. No. 368-a-1-2-1-1.
97415. No. 368-a-1-2-1-2.
97417. No. 200-b-3-1-1.
97418. No. 372-a-1-1-1-5.
97419. Line C.
97420. Line E.

97414 to 97422—Continued
97421. Line 200-b-5-1-1.
97422. Line 200-b-1-1-3.
97423 to 97490. PRUNUS spp. Amygdalaceae.
From the Union of Soviet Socialist Republics. Seeds presented by V. P. Alekseev, plant introducer, Sukhum Subtropical Branch of the All-Union Institute of Plant Industry, Sukhum, Caucasus. Received February 18, 1932. Collected from various parts of the Caucasian region. Introduced for the use of Department specialists.

97423 to 97485. PRUNUS CERASIFERA DIVARICATA (Ledeb.) C. Schneid. Plum.

Lenin-
F.P.I. grad
No. No.
97423. 10970. 97455. 37321.
97424. 31339. 97456. 37328.
97425. 31342. 97457. 37329.
97426. 31345. 97458. 37330.
97427. 37246. 97459. 37335.
97428. 37247. 97460. 37339.
97429. 37248. 97461. 37340.
97430. 37249. 97462. 37341.
97431. 37250. 97463. 37342.
97432. 37251. 97464. 37343.
97433. 37254. 97465. 37344.
97434. 37255. 97466. 37345.
97435. 37256. 97467. 37353.
97436. 37257. 97468. 37357.
97437. 37262. 97469. 37358.
97438. 37263. 97470. 37359.
97439. 37266. 97471. 37360.
97440. 37268. 97472. 37363.
97441. 37272. 97473. 37364.
97442. 37295. 97474. 37394.
97443. 37296. 97475. 37397.
97444. 37297. 97476. 37399.
97445. 37298. 97477. 37400.
97446. 37299. 97478. 37404.
97447. 37300. 97479. 37410.
97448. 37301. 97480. 37412.
97449. 37302. 97481. 37434.
97450. 37303. 97482. 37435.
97451. 37304. 97483. 37436.
97452. 37305. 97484. 37438.
97453. 37319. 97485. 37439.
97454. 37320.
97456. PRUNUS DOMESTICA × ARMENIACA. No. 37797. A natural hybrid of the prune and apricot.
97477 to 97490. PRUNUS CERASIFERA DIVARICATA (Ledeb.) C. Schneid. Plum.

Lenin-
F.P.I. grad
No. No.
97477. 41200. 97486. 41200.
97478. 37305. 97487. 37305.
97479. 37306. 97488. 37306.
97480. 37307. 97489. 37307.
97481. 37308. 97490. 37308.
37493 to 97517—Continued

37497. ACER CISSIFOLIUM (Sieb. and Zucc.) Koch.
A Japanese maple of compact rounded habit becoming 30 feet or more high, with leaves composed of three leaflets up to 4 inches long. The minute flowers are produced in May with the leaves, and the keys, about 1 inch long, occur in long racemes. In the autumn the foliage turns red and yellow.
For previous introduction see 95546.

37498. ACER DAVIDII Franch.
A native Chinese maple, 50 to 60 feet high, with large oval heart-shaped coarsely toothed leaves and long pendant clusters of samaras.
For previous introduction see 71176.

37499. ACER DIABOLICUM Blume.
Devil maple.
A tree up to 20 feet high, with lobed leaves 1 to 3 inches across, and also a native of the Jubaepsis near its equator. The endosperm is hollow, as in the coco-nut, but without milk.
For previous introduction see 41484.

37500. ACER GRISEDM (Miquel) Maxim.
Paperbark maple.
A handsome maple, native to western China which becomes 30 feet high under favorable conditions. The leaves are trifoliolate. The striking feature of this maple is the cinnamon-brown papery bark which flakes off like that of the river birch.
For previous introduction see 81726.

37501. ACER LOBELII Ten.
A tree up to 40 feet high, with ascending branches and glaucous branchlets, related to the Coliseum maple, Acer cuprocircinum, and also a native of Italy. The leaves, 4 to 8 inches across, are usually divided into five long- acuminate lobes and are dark green above, with slightly paler beneath. The minute flowers are followed by winged fruits with bristly nutlets. It is native to Japan and closely resembles A. franchetii of central China.
For previous introduction see 80268.

37502. ACER MAXIMOWICZII Pax.
A small tree, native to central China, with 3- to 5-lobed leaves 2 to 3 inches long, and keys up to an inch long.
For previous introduction see 95540.

37503. ACER MITABEI Maxim.
A deciduous tree, native to Japan, 30 to 40 feet high, with a trunk 18 inches in diameter, deeply 3-lobed leaves, downy yellow flowers in corymbs 2 to 3 inches long, and keys up to an inch long.
For previous introduction see 80268.

37504. ACER MIKONSE (Miquel) Maxim.
A tree up to 40 feet high, native to Japan and central China, with attractive foliage somewhat like the boxelder, which turns brilliant red or purple in the autumn.
For previous introduction see 95541.
97493 to 97517—Continued

97505. ACER OBLONGUM Wall. A subtropical maple which becomes 40 to 50 feet high, with a trunk 1 to 2 feet in diameter and dark-green oblong entire leaves up to 7 inches long. The reddish wood is used for making agricultural implements.

For previous introduction see 93172.

97506. ACER RUBRUM TENTENSUM Kirch. A form of the red maple, with 5-lobed leaves, pubescent beneath, and bright-red flowers.

97507. ACER TETRATRUM RETULIFOLIUM (Maxim.) Rehder. A form distinguished from the type by its glabrous, slightly lobulate, ovate-oblong-ovate leaves and by the broader wings of the fruits. It is native to China.

97508. ACER TETRATRUM TILIIFOLIUM Rehder. A form distinguished from the type by its glabrous, slightly lobulate, ovate-oblong-ovate leaves and by the cordate leaves, five-nerved at the base, and resembling those of a small-leaved linden. It is native to Szechwan, China.

97509. ACER TETRATRUM KOMAROV. A tree up to 25 feet high, with glabrous branchlets. The leaves are made up of three oblong-lanceolate leaflets with entire or coarsely toothed margins, and the flowers, in groups of three, are followed by densely pubescent fruits having wide-spreading, nearly straight wings about 2 inches long. It is native to Chosen and Manchuria.

For previous introduction see 90655.

97510. EUCRYPHIA GLUTINOSA (Poep. and Endl.) Focke (E. pinnatifolia Gay). Eucryphiaceae. An evergreen shrub from 3 to 10 feet high, which is particularly attractive because of its large white flowers, 2 to 3 inches across, not unlike a large single rose, with a tuft of stamens in the center. It does best in rather moist situations protected from the strongest rays of the sun.

For previous introduction see 62008.

97511 to 97513. LONICERA spp. Caprifoliaceae. Honeybush. A shrub up to 5 feet high, with wide-spreading slender, often-procumbent branches. The oblong-lanceolate leaves, 1 to 2 inches long, dark green and glossy above and white tomentose beneath, are usually opposite, but sometimes are in whorls of three. The pale-pink to pale-carmine fragrant flowers are about half an inch long and followed by red fruits. It is native to Tibet and western China.

97512. LONICERA TRICOSANTHA Bur. and Franch. Blended honeybush. A robust deciduous shrub 8 feet high, native to Szechwan, China. The whole plant has a rounded dense leafy habit and a pale grayish aspect. The dull gray-green leaves are paler beneath, and the pale-yellow flowers fade to a deeper shade. The berries are red.

For previous introduction see 60553.

97493 to 97517—Continued

97513. LONICERA DEFLEXALYX XEROCALYX (Diels) Rehder. (L. xerocalyx Diels). A rare shrub 15 to 20 feet high with horizontal branches, narrow leaves of rich green, and large rich golden-yellow flowers which appear in May and June. It is an exceedingly handsome species with small tomato-red fruits.

For previous introduction see 55956.


97517. SORBUS AUCUPARIA EDIECKE. Malaceae. European mountain ash. A nearly glabrous form having purplish petioles and the leaflets serrate usually only above the middle. The larger fruits have a slightly acid agreeable flavor and are used for preserves.

For previous introduction see 91712.

97518 and 97519. From Algeria. Scions presented by David Lalou, Laghoust, through Oscar S. Heizer, American consul, Algiers. Received February 25, 1932.

97518. MALUS sp. Malaceae. Apple. A small yellow apple from the garden of Mr. Lalou.

97519. PYRUS sp. Malaceae. Pear. A wild pear from the garden of Mr. Lalou.


Red Absota, Asemia. From the Jericho Horticultural Station. A variety bearing dark-purple or black fruits which are rather attractive in appearance but inferior in quality.

97521. PODOPHYLLUM EMODI Wall. Berberidaceae. Himalayan mayapple. From India. Seeds presented by the curator, Indian Museum, Industrial Section, Calcutta. Received February 27, 1932.

Collected by the divisional forest officer, Kashmir Division, Kuantnag, Kashmir. A perennial herb about a foot high, native to India. It is much like our native species, with leaves 5- to 7-lobed, marbled and shaded with deep bronze in spring. The flowers are pale rose to white and are followed by egg-shaped fruits of deep reddish color.

For previous introduction see 94294.

97522 to 97532. From the West Indies. Material collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armour expedition. Received February 25, 1932.
97522 to 97532—Continued

No. 2722. February 3, 1932. St. Lucia, Windward Islands. Cuttings of the Black Antigua pineapple presented by E. H. Walter, curator of the St. Lucia Botanic Garden. Said to be a small sweet pineapple of good color and tender flesh. Not recommended as a shipping pineapple, but for home use.

97523. ANONAXA sp. Anonaceae.
No. 2744. Cuttings collected on Bequia, Grenadines Islands. An Annona with foliage very similar to A. squamosa, but much darker green, and brown-purple fruits, which although about the same size and general shape as those of A. squamosa, are much firmer and have an entirely different type of protuberances.

97524. CALATHEA ALLOULCA (Aubl.) Lindl. Marantaceae.
No. 2727. Liered or topi-nambour. Collected February 2, 1932, on St. Lucia and presented by Mrs. Charles W. Doorley. A plant which produces a large number of small egg-shaped, thin-skinned tubers on its slender roots. The tubers have a delicate sweetish flavor and are used boiled and in soup.

97525. CITRUS AURANTIUM (M. Crantz sp. Rutaceae.

97526. CITRUS sp. Rutaceae.
No. 2830. From Port-of-Spain, Trinidad, February 14, 1932. A sport or hybrid with a very thin rough green-yellow skin, thick tough segment walls, and tender flesh comparable with a good grapefruit.

97527. HELICONIA sp. Musaceae.
No. 2813. Collected near Grand Etang Lake at 2000 feet altitude in the mountains of Grenada, Windward Islands. A most striking and decorative species with immense floral bracts forming a curious inflorescence 2 feet long with alternate bracts 6 inches long and 2 inches wide. The bracts are vivid scarlet with golden-yellow margins. The plant requires a continuous supply of moisture and is suited for culture in ponds or water gardens where it can be shaded.

97528. KARMPEPERIA OVALIFOLIA Roxb. Zinziberaceae.

97529. MANHOT ESCULENCTA Crantz (M. utilisima Pohl). Euphorbiaceae.
Cassava.
No. 2752. Cuttings collected February 5, 1932, on St. Vincent, Windward Islands.
For previous introduction and description see 86666.

97530. MARANTA ARUNDINACA L. Marantaceae. Bermuda arrowroot.
No. 2759. Rhizomes collected on St. Vincent, Windward Islands, February 3, 1932. One of the principal crops of the Island. This arrowroot requires a light soil and plenty of water, but it cannot be grown successfully except where there is plenty of cheap labor.

97531. (Undetermined.)
No. 2726. St. Lucia, February 3, 1932. Seeds of a tall handsome tree with large ovate leaves, glossy above, and straw-colored fruits 2 inches long which enclose large glossy brown seeds the size of chestnuts.

97532. MABA INCONSTANS (Jacq.) Griseb. Diospyraceae.
No. 2745. Cuttings collected February 5, 1932, on Bequia, Grenadines Islands. A small attractive tree with gray bark, and large glossy leaves. The small dark berries are eaten by the children.

97533 to 97536.
From South America. Seeds presented by M. J. Rivero, Cali, Colombia, through C. B. Doyle, Bureau of Plant Industry. Received February 25, 1932.

97533. ARISTOLOCHIA sp. Aristolochiaceae.
97534. TIBOUCHINA sp. Melastomaceae.
A flowering shrub.
97535. ZAMIA sp. Cycadaceae.
97536. (Undetermined.)
A timber tree.

From Mexico. Seeds presented by H. Fred Smith, Alamos, Sonora. Received February 24, 1932.
A close relative of the kapok tree. Ceiba pentandra. A large or medium-sized tree with a spiny trunk, compound leaves, and hard oblong fruits about 7 inches long, which contain a whitish down used for stuffing pillows, life preservers, and for making candlewicks. Native to western and southern Mexico.
For previous introduction see 91619.

From Argentina. Seeds presented by E. F. Schults, Assistant Director, Estaci6n Experimental Agricola, Tucuman. Received February 29, 1932.
Cherry tomato. A small-fruited precocious variety of the ordinary tomato, grown on the dry side of the high mountain range west of Tucuman.

97539 to 97553. PHOENICACEAE. Palms.
From the West Indies. Seeds collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armstrong expedition. Received February 23, 1932.
97539. ACANTHORHIZA ACULEATA (Liebm.) Wend. Root spine palm.
No. 2797. Collected in the Botanic Gardens, furnishings, Windward Islands, February 10, 1932. A palm, native to Mexico, with a trunk 30 to 40 feet high, armed at the base with spines formed of the thickened aerial roots. The obicular fan-shaped leaves are about 5 feet in diameter on stalks 4 feet long; the flowers are dark creamy pink.
For previous introduction see 80170.
No. 2802. Collected on Grenada, February 9, 1932. The betel palm is considered one of the most graceful, bearing at the top of its trunk, 40 to 100 divided leaves 4 to 6 feet long, the lowest usually pendulous. The ovoid smooth fruits, 1 to 2 inches in diameter, are orange yellow or scarlet, and furnish the well-known betel nut. It is native to southeastern Asia.

For previous introduction see 81553.

97541. PYTCHOSPERMA sp. No. 2798. Collected at Grenada, February 10, 1932. A handsome cluster palm which has pinnate leaves with obliquely truncated pinnae. The slender stems rising from a common base make this, if possible, even more attractive than the yellow palm, Chrysalidocarpus lutescens.

97542. ATTALEA COHUNE Mart. No. 2746. Collected in the Botanic Garden of St. Vincent, Windward Islands, February 4, 1932. A magnificent feather-leaved palm, native to the West Indies and Central America, which reaches a height of 40 feet, with leaves about 20 feet long, produced abundantly at the top of the trunk. The yellowish flowers are borne very freely, and the ovoid fruit, 2 to 3 inches long, contains the seed or nut which yields an oil of considerable value, as it is of high quality, and finds a ready sale for cooking purposes.

For previous introduction see 92891.

97543. ATTALEA SPECTABILIS Mart. No. 2840. Collected in the Botanic Garden, Port-of-Spain, Trinidad, February 13, 1932. A nearly stemless palm with large pinnate leaves or spreading leaves up to 20 feet long. It is native to the banks of the Amazon in Brazil.

For previous introduction see 80175.

97544. TILMIA sp. No. 2735. Collected February 2, 1932 in the Botanic Garden at Bar de l’Isle, St. Lucia, Windward Islands. A slender spineless feather palm over 20 feet high which grows in the high altitudes of the mountain crests on the island of St. Lucia.

97545. PYTCHOSPERMA sp. No. 2838. Collected February 13, 1932 near the Government House in the Botanic Garden, Port-of-Spain, Trinidad. A spineless feather palm which forms clumps 9 feet high and has dark-red fruit.


For previous introduction see 93406.

97539 to 97546—Continued

97547. LIVISTONA ALTISSIMA Zoll. No. 2799. Collected February 10, 1932, in the Botanic Garden, Grenada, Grenada-dine Islands. A graceful palm, native to the East Indies, up to 80 feet high, with fan-shaped leaves. The hardwood is valued by the natives of the East Indies for construction work.

For previous introduction see 90802.

97548. LIVISTONA ROTUNDIFOLIA (Lam.) Mart. (Java fan palm.) No. 2800. Collected in the Botanic Garden, Grenada, February 10, 1932. An erect pinnate-leaved palm, native to tropical Asia, about the same size as the coconut palm. The hard durable wood is used for general construction.

For previous introduction see 93413.

97549. TILMIA sp. No. 2829. Collected February 13, 1932, on Trinidad. A slender palm with pinnate leaves whose pinnae are ornately truncate. The trunk and leaf petioles are covered with dark-red spines.

97550. ROYSTONEA BORINQUENA O. F. Cook. (Puerto Rico royal palm.) No. 2839. Collected February 13, 1932, at Port-of-Spain, Trinidad. A much shorter and more robust palm than either R. regia or R. oleracea, with a smaller seed than either.


For previous introduction and description see 97286.

97552. SARAL GLAUCCESCENS Lod. (Palmetto.) No. 2801. Collected February 10, 1932, in the Botanic Garden, Grenada, Grenadine Islands.

For previous introduction and description see 97290.

97553. JESSEHIA OLIGOCARPA Griseb. and Wendl. No. 2833. A tall, handsome, slender feather palm, 35 to 40 feet high, related to Euterpe. The dark-brown fruit is oval. The tree thrives on rather poor soil and seems to prefer the shade. It may be suitable as a house plant.

97554 to 97557. PYRUS spp. Malaceae. Pear.

From India. Scions presented by His Highness Government, Jammu and Kashmir, Kashmir Province, Srinagar, through M. R. Fotidar, assistant director of horticulture. Received February 25, 1932.

Strains of the Williams pear, introduced into India from France, obtained for the use of Department specialists.

97554. PYRUS sp. Williams.

97555. PYRUS sp. Williams; early. This is said to be the same as the Bartlett.

97556. PYRUS sp. Williams; medium. A midseason variety resembling the Bartlett.
97560 to 97580—Continued

97557. PYRUS sp. 
Williams; late. A late variety resembling the Bartlett.


From Brazil. Plants presented by F. C. Camargo, Estacion de Pomicultura de Dedoro, Rio de Janeiro. Received February 29, 1932.


97559. No. 185/31. Verde de guaratiba.

97560 to 97560.

From the West Indies. Seeds collected by David Fairchild and P. H. Dorset, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armour expedition. Received February 23, 1932.

97560. ABRIDES LAWRENCIAE SANDBRIANUM Verde de guaratiba.

97559. No. 185/31.


97557. PTRDsp.


No. 7744. Collected February 5, 1932, on Bequia, Grenadine Islands.


No. 2715. Purchased in the market at St. Lucia, February 3, 1932. A form whose seeds are its chief attraction, as they are roasted and eaten. The pulp is also used, but is considered inferior to that of the seedless breadfruit.


No. 2811. Collected in the Botanic Garden, Grenada, Grenadine Islands, January 10, 1932.

97564. CACTUS INTORTUS MILL. Cactaceae.

No. 2628. From St. Kitts, Leeward Islands, January 25, 1932. Turkseop cactus. A red-brown cactus with the upper part shaped like a Turk's cap. The small pink flowers are followed by deep pink fruits filled with black seeds. It is a slow-growing species adapted to conditions where rather heavy summer rains and winter droughts occur.

97565. CALLIMDA SUBINANENSIS Benth. Myristicaceae.

No. 2822. Collected February 10, 1932, in the Botanic Garden, Grenada. A beautiful large open branching shrub with showy flowers composed of many large white and yellow stamens.

97566. CAPPARIS FLEXUOSA L. Capparidaceae.

No. 2618. Collected in a dry savanna pond on Saona Island Dominican Republic, January 20, 1932. A shrub or small tree up to 25 feet high with long flexuose branches, oblong leaves 2 to 3 inches long, clusters of small white or pale-rose flowers, and fruits 3 to 7 inches long, which gradually open and expose the bright red pulp inside. It is native to Cuba.

97567. CASSIA BACILLARIS L. Leguminosae.

No. 2765. Collected January 28, 1932, in the Botanic Garden at Dominica, Leeward Islands. A small tree of rather straggly habit, suitable for street and park planting. The golden-yellow flowers an inch or more in diameter are in loose flowering racemes.

For previous introduction see 68020.

97568. CHrysophyllum sp. Sapotaceae.

No. 2717. Collected in the forest of Bar de l'Isle, St. Lucia, February 3, 1932. A tall tree with large glossy leaves and long pointed fruits covered with a rough fuzzy fuzz. The parrots seem very fond of the fruit. Introduced as a possible stock for the star-apple.


No. 2656. Collected January 26, 1932, at 1,200 feet altitude on Boggy Peak above Marigot, Windward Islands. A giant-leaved species which, when grown in the shade, has leaves a foot in diameter. It is a rare species related to the seagrape.

97570. CRESCENTIA CUCURBITINA L. Bignoniaceae.

No. 2826. Collected in the Botanic Garden at Grenada, February 10, 1932. A shade tree with abundant foliage and fruits three fourths of an inch in diameter which contain a single seed.

97571. Ficus sp. Moraceae.

No. 2758. Collected on Mayero, Grenadine Islands, February 6, 1932. A tree with a trunk a foot in diameter and aerial roots; found growing in an extremely dry and wind-swept situation at the summit of a very rocky hill. The leaves were large and glossy, and the masses of almost white fruits turn pink as they ripen.

97572. Ficus sp. Moraceae.

No. 2758. From the Botanic Garden, Carriacou, Grenadine Islands, February 8, 1932. A handsome clean gray-barked tree with spreading drooping branches after the habit of F. bensjina, but bearing lemon-yellow fruits one half inch in diameter.

97573. MYRISTICA FRAGRANS Houtt. Myristicaceae.

No. 2832. Collected February 10, 1932, at Avondale, Grenada, Grenadine Islands. An East Indian tree, 20 to 25 feet high, with smooth gray-brown bark, oval dark-green sharp-pointed leaves 3 to 6 inches long, slightly aromatic when bruised, and pale yellow flowers in axillary racemes, followed by nearly spherical pearl-like drupes. The flesh of these drupes is yellow and full of astringent juice and encloses a hard-shelled nut, the seed of which is the nutmeg of commerce.

For previous introduction see 93534.


The outer leaves of this Colombian species are hard, dry, and spineless; the-
inner leaves have brown-spined petioles and broad plicate recurved recurved. The corolla is 10 inches long, and are in a raceme borne on a bright-red scape a foot high.

For previous introduction see 89494.


97576. PLUMERIA ALBA L. Apocynaceae. Frangipani. A pretty scandent shrub with red-brown flowers. It is much prized in the west Indies as an ornamental, as well as for house decoration. The fruit is a magenta aril that almost conceals the shiny black seed. In habit it is very much like the bittersweet and could probably be used in the same way for floral decoration.

97577. PORTLANDIA grandiflora L. Rubiaceae. No. 2766. Collected on Mayero, Grenadine Islands, February 6, 1932. Found in thickets on the rocks overlooking the sea where it was exposed to the drying salt-spray laden trade winds. A tree up to 30 feet high, native to the West Indies. The linear-lanceolate, subcoriaceous leaves, 10 inches long, are glabrous above and densely white-tomentose beneath. The salver-shaped flowers, 2 inches across, are white with a yellow eye and are borne in compact clusters.

97578. PTERYGOGETA ALATA (Roxb.) R. Br. Sterculiaceae. No. 2651. Collected in the Botanic Garden at St. Johns, Antigua, Leeward Islands, January 26, 1932. A large tree, native to India, having ashy white pubescent ovate or spatulate leaves and showy daisylike flowers on stems a foot high.

97579. TABBBUIA LEUCOXYLA DC. Bignoniaceae. No. 2825. Collected at Port-of-Spain, Trinidad, February 12, 1932. A tropical shrub up to 15 feet high, native to the West Indies, with opposite elliptical leaves and axillary fragrant white flowers which are funnel-form and 5 inches long.

For previous introduction see 80159.

97580. STRENGOSPERMA HALIMIFOLIUM Benth. Phytolaccaceae. No. 2606. Collected January 18, 1932, at Beata Island, Dominican Republic. A pretty scandent shrub with red-brown fruits which when ripe open and expose a magenta arill that almost conceals the shiny black seed. In habit it is very much like the bittersweet and could probably be used in the same way for house decoration.

97581 to 97589—Continued

97581. ALLIUM OREOPHILUM Meyer. A bulbous perennial with linear to lanceolate leaves and hemispheric umbels of purple-lavender flowers. It is native to the mountains of the Caucasus region.

For previous introduction see 91796.

97582. ALLIUM VICTORIALIS L. For previous introduction and description see 95570.

97583. ALLIUM WALICHIANUM Steud. A tall eastern Asiatic onion with narrow flat leaves about 3 feet long and purple flower heads.

For previous introduction see 91801.

97584. ALYSIUM TRICHOSTACTUM Rupe. Brassicaceae. A yellow-flowered herbaceous perennial from the mountains of the western Caucasus. It is closely related to A. montanum, differing chiefly in being larger and more pubescent.

97585. ANTHEMIS CINEREA Panc. Asteraceae. A perennial camomile from Bulgaria, with ashy white pubescent ovate or spatulate leaves and showy daisylike flowers on stems a foot high.


97587. ANTHEMIS BERLENGENSIS Daveau. A cespitose perennial which becomes 2 feet in diameter. The lanceolate leaves form a dense rosette, and the large rosy flowers are on numerous scapes. Native to Portugal.

97588. STATICE CHILENSIS (Boiss.) Maxim. An alpine perennial native to Chile with linear acuminate basal leaves and purplish flowers borne on a slender scape.

97589. ARMERIA ELONGATA Hoffm. A tufted perennial with a rosette of flat linear leaves and small white flowers on a tall slender scape. Native to central Europe.

97590. ARMERIA ELONGATA Hoffm. A tufted perennial with a rosette of flat linear leaves and small white flowers on a tall slender scape. Native to central Europe.

97591. ARMERIA LONGIFILIA Hoffm. A perennial herb with a rosette of flaccid lanceolate leaves 2 to 3 inches
long and white flowers on a scape about a foot high. Native to southern Spain.

A perennial herb with a rosette of grasslike leaves and pinkish flowers on slender scapes. Native to southern Europe.

A woody plant about 6 inches high with rigid lanceolate somewhat glaucous leaves 2 to 3 inches long and rosy flowers in small heads on simple scapes. Native to Spain.

A somewhat woody perennial with short furrowed filiform leaves and a subterranean rosette of oblong purplish leaves and white flowers on a scape 12 to 18 inches high. Native to the Altai Mountains, Siberia.

A perennial chrysanthemum, native to Siberia, with a rosette of linear-subulate leaves 2 to 3 inches long and white flowers on a scape 18 inches high. Native to paper-like leaves and pinkish flowers on slender scapes. Native to southern Spain.

A hardy herbaceous perennial with a rosette of linear-subulate leaves and white flowers on a scape about 3 feet high. Native to the Himalayas in India.

For previous introduction see 93201.

For previous introduction and description see 95497.

A hardy herbaceous perennial with a rosette of linear-subulate leaves and white flowers on a scape 18 inches high. Native to paper-like leaves and pinkish flowers on slender scapes. Native to southern Spain.

A hardy herbaceous perennial with a rosette of linear-subulate leaves and white flowers on a scape 18 inches high. Native to paper-like leaves and pinkish flowers on slender scapes. Native to southern Spain.

A form with white flowers. Alba.
97581 to 97629—Continued

97612. FUCHSIA THYMIFOLIA H. B. K.
A shrub 3 to 6 feet high, with small ovate nearly opposite leaves pubescent above, red flowers having obovate undulate petals, and red fruits.

For previous introduction see 90091.

97613 to 97616. KALANCHEE spp. Crassulaceae.

97613. KALANCHEE BENTH. C. H. Wright.
A succulent with dull olive-green stems about 3 feet high, thick fleshy spreading and recurved terete leaves 3 to 6 inches long, and panicles of erect tubular white flowers half an inch long, the buds being pink. It is native to Arabia.

For previous introduction see 91522.

97614. KALANCHEE CARNEA N. E. Brown.
A succulent perennial with simple stems about 2 feet high, oval to obovate, crenate-dentate leaves, and branched cymes of light rose or pink very fragrant flowers. Native to southern Africa.

For previous introduction see 93091.

97615. KALANCHEE CRENATA Haw.
A succulent perennial, native to tropical Africa, 2 to 6 feet high, with a thick fibrous root, oblong or roundish oval-crenate leaves about 2 inches long, and bright-yellow flowers half an inch long in terminal and axillary cymes.

For previous introduction see 93091.

97616. KALANCHEE ROTUNDIFOLIA Haw.
A succulent perennial, 1 to 3 feet high, with a slender stem which has a few leaves at the base and is naked above. The fleshy leaves, 1 to 2 inches long, vary in shape from broadly obovate to spatulate and are entire or crenate. The small orange or yellow flowers are borne in flat-topped panicles. Native to South Africa.

For previous introduction see 58752.

97617. GATA LYALLII (Hook. f.) Baker f. (Plagianthus lyallii Hook. f.) Malvaceae.
Lacebark. A beautiful tree up to 30 feet high, graceful and spreading, with the branchlets covered with stellate hairs. The coriaceous leaves are 2 to 4 inches long on slender petioles and the large white flowers, an inch across, are borne in axillary clusters. Native to New Zealand.

For previous introduction see 92033.

97618 and 97619. PODOPHYLLUM EMODI Wall. Berberidaceae.
Himalayan mayapple.

97618. For previous introduction and description see 97521.

97619. Variety chinense. Probably a form from China.

97620. RANUNCULUS GRAMINEUS L. Ranunculaceae.
Grassy buttercup. A smooth herbaceous perennial with rosettes of linear to lanceolate leaves and branched clusters of bright yellow flowers on stalks to 12 inches high. It is native to Europe.

For previous introduction see 95494.
97630 to 97639—Continued


From Kulu, Punjab. A tree up to 4 feet in diameter, found between 7,000 and 9,000 feet altitude. A moderate-sized deciduous tree with soft white close-grained wood; the 5 to 7 leaflets are shortly petioled, and the narrowly lanceolate panicles of white and yellow flowers are as long as the leaves.

* For previous introduction see 39102.


Collected at Wakka, Zanskar, at 14,000 feet altitude. A columbine with very attractive blue flowers and very glaucous blue-gray foliage.


From Sirham, Kulu, Punjab. A box, 4 feet high, found in open spaces in fir forest between 8,000 and 9,000 feet altitude.

97633. Cicer sp. Fabaceae.

Collected at Pensi La, Zanskar, at 14,000 feet altitude.

97634. Clematis sp. Ranunculaceae.

Collected in Ladakh Province at 14,000 feet altitude. A very attractive clematis with large yellow flowers.

97635. Cotoneaster sp. Malaceae.

Collected at an altitude of 6,000 feet at Darkall, Rampur-Bushahr. An arboreal cotoneaster which becomes 20 feet high.

97636. Cotoneaster sp. Malaceae.

Collected at Potang La at 13,000 feet altitude. A large shrub with attractive habit, foliage, and fruit.


From Darkall, Rampur-Bushahr, at 8,000 feet altitude. A green squash which sometimes grows to weigh 40 pounds. The yellow flesh is of superb flavor; considered the best of its kind in cultivation there and superior to anything in America. The natives say that it thrives best if the climate is not too hot. It seems to be confined to a very small valley here.


Collected at Darkall, Rampur-Bushahr. An edible pumpkin.


Collected below Pensii La, Zanskar, at 14,000 feet altitude.

97640. Dianthus sp. Sileneaceae.

Collected at 12,000 feet altitude in Rangoon, Zanskar. A very attractive little pink dianthus found on a well-watered slope.

97641. Euponymus sp. Celastraceae.

From Kulu, Punjab. A small tree or shrub collected in a forest between 8,000 and 9,000 feet altitude.

97642. Euponymus sp. Celastraceae.

Collected at Darkall, Rampur-Bushahr. A large evergreen forest tree which is very attractive in its fruiting season. It tolerates snow for two months, but not much frost.

97643. Hypericum sp. Hypericaceae.

From Darkall, Rampur-Bushahr. An attractive shrub 4 feet high collected at the forest edge at 8,000 feet altitude.

97644 and 97645. Pedicularis sp. Scrophulariaceae.

Collected at Rangdum, Zanskar, at 13,000 feet altitude.

97646. Pedicularis sp. A plant nearly 3 feet high, with flowers which are probably yellow.

97647. Pedicularis sp. A very attractive form with rose-lavender flowers.

97648. Pinus gerardiana Wall. Pinaceae.

Seeds purchased at Kunawar, Rampur-Bushahr. A very attractive form with rose-lavender flowers. It has about the same ecological relationships as Pinus edulis.


From Rampur-Bushahr. A very attractive tree up to 2½ feet in diameter, which grows between 7,000 and 9,000 feet altitude on slopes too isolated for other trees. It will tolerate snow and frost.

* For previous introduction see 97786.


From Kulu, Punjab. A rose with beautiful pink flowers, which flowers sparingly. Collected in the forest between 8,000 and 10,000 feet altitude.


Collected in Kulu, Punjab. An evergreen, strongly aromatic shrub found throughout the temperate Himalayas at altitudes ranging from 6,000 to 10,000 feet. The white flowers are crowded into terminal panicles, and the red fleshy oval fruits are less than an inch in length. The timber is used to make hoe and ax handles.

* For previous introduction see 55704.

97650. Seeds received mixed with Juniperus pseudosabina.
From England. Seeds presented by J. R. Spp. RHODODENDRON 97657 to 97678—Continued

97657. RHODODENDRON FLOCCIGERUM Franch.

Forrest No. 19769. A shrub 4 feet high, found in the alpine region of Tsechung Mekong, Yunnan, China. The linear-elliptical leaves are rich green and covered with brown deciduous wool. The flowers are red with a purplish tinge.

For previous introduction see 59474.

97658. RHODODENDRON PURPLEM Balf. and Smith.

A straggling tree, 9 to 18 feet high, native to western Yunnan, China. The obovate leathery leaves, 6 to 8 inches long, are glabrous above and are covered beneath with a pale-fawn to deep-crimson suedelike indumentum. The inflorescence is a loosely rounded umbellate-truss of about 20 panulate flowers 1 to 2 inches long, which are white with a deep rose flush and have a crimson blotch at the base.

For previous introduction see 58921.

97659. RHODODENDRON BURMANICUM Hook, f...

This shrub or tree, which sometimes attains a height of 30 feet, is native to northeastern India. The large deep-green leaves, often a foot long, and the whitish, densely clustered flowers, make it a very fine ornamental.

For previous introduction see 59474.

97660. RHODODENDRON DECIDUUM Franch.

Forrest No. 15851. A shrub 5 to 10 feet high, native to western Yunnan, China. The narrowly lanceolate leaves, 4 to 8 inches long, are green above and covered beneath with a loose whitish to buff woolly tomentum. The funnel-campanulate flowers, in clusters of 5 to 12, are 2 to 3 inches long and are bright geranium-scarlet dappled inside with darker spots.

For previous introduction see 58924.

97661. RHODODENDRON SERRSIANUM Balf. and Forrest.

Forrest No. 6773. A shrub up to 10 feet high, native to Yunnan, China. The oblong to obovate leaves, 2 to 4 inches long, are dark green above and densely rufus-white-felted beneath. The fleshy tubular-campanulate flowers, in umbels of 6 to 8, are 1 inches long and have fleshy pouches at the base of the crimson corolla.

For previous introduction see 59474.

97662. RHODODENDRON HODGSONII Franch.

This is considered one of the finest rhododendrons for foliage; the leathery dark-green leaves are up to 18 inches in length, glossy above and covered with a brown-red down beneath. The rosy lilac flowers, 2 inches wide, are in dense rounded trusses about 6 inches wide.

For previous introduction see 58924.

97663. RHODODENDRON INSIGNE Hemsl. and Wilson.

Wilson No. 1339.

For previous introduction and description see 59473.

97664. RHODODENDRON LACTEUM Franch.

Forrest No. 6775. A tree 15 to 30 feet high, native to Yunnan, China. The thick leathery oblong-elliptic leaves, 4 to 7 inches long, are glabrous above and covered beneath with a dull-fawn suede-like indumentum. The wide-campanulate creamy white to very yellow flowers are 2 inches long and are borne in a large racemose umbel made up of 20 to 30 flowers.

97665. RHODODENDRON SCHIZOMERI Hook, f.

For previous introduction see 58921.

97666. RHODODENDRON BAROBOUM J. E. Smith.

For previous introduction and description see 97647.

97667. RHODODENDRON BURMANICUM Hutchinson.

A large shrub, native to southwestern Burma, with oblong-campanulate and occasionally ovate-green leaves, densely scaly on both surfaces. The green-yellow fragrant campanulate flowers, in 5- or 6-flowered umbellate clusters, are scaly all over the outside.

For previous introduction and description see 97647.

97668. RHODODENDRON CALOPHTHUM Franch.

For previous introduction and description see 97638.

97669. RHODODENDRON CROCEUM Balf. and Smith.

Forrest No. 12731. A shrub up to 22 feet high, with somewhat papery oblong leaves 5 inches long and flesh-yellow, red-spotted flowers over 1 inch long in racemose umbels. Native to Yunnan.

For previous introduction see 94111.

97670. RHODODENDRON DISCOUM Franch.

For previous introduction and description see 97625.

97671. RHODODENDRON FALCONEI Hook, f.

This shrub or tree, which sometimes attains a height of 30 feet, is native to
97657 to 97678—Continued

97670. RHODODENDRON NERIIFLORUM Franch.

A shrub 3 to 6 feet high, native to midwestern Yunnan, China. The oblong to oval leaves, 2 to 4 inches long, are dark-green and smooth above, and covered beneath with white waxy papillae. The fleshy tubular-campanulate crimson flowers are about 2 inches long, and the calyx is fleshy and colored like the corolla.

97671. RHODODENDRON NIVIUM Hook. f.

A shrub or small tree 12 to 15 feet high, native to the Sikkim Himalayas in India. The branchlets are covered with dense white felted tomentum, and the openly campanulate pale-green flowers are about 1 inch long and are borne in a rounded compact mass of 15 to 20.

97672. RHODODENDRON ORBICULARE De-frac.

A shrub or small tree, native to western Szechwan, China. The narrowly elliptic-lanceolate leaves, 4 to 6 inches long, are glabrous above and glaucous beneath. The open panicle of crimson flowers are over 1 inch long and are borne in a terminal umbel of about a dozen flowers.

97673. RHODODENDRON OREODOXA Franch.

A shrub or small tree, native to western Szechwan, China. The narrowly elliptic, leathery leaves, 2 to 4 inches long, are glabrous above and glaucous beneath. The open panicle of white rose flowers are nearly 2 inches across and are borne in a racemose umbel of about 8 white flowers.

97674. RHODODENDRON PRAEVERNUM Hook. f.

A medium-sized compact shrub, native to Hupeh, China. The leathery elliptic-oblongate leaves, 4 to 7 inches long, are dark green above and pale gray green below. The open panicle of crimson flowers are 2 inches across are white suffused rose with a large dark wine-red blotch at the base and smaller spots above, and are borne in a terminal umbel of about 10 flowers.

97675. RHODODENDRON ROYLEI Hook. f.

A Himalayan shrub up to 15 feet high, growing at altitudes between 10,000 and 11,000 feet, with glabrous obovate leaves 3 inches long and clusters of 6 to 25 blood-red flowers 2 inches across.

For previous introduction see 76911.

97676. RHODODENDRON SOULIEI Hook. f.

A Himalayan shrub up to 15 feet high, growing at altitudes between 10,000 and 11,000 feet, with glabrous obovate leaves 3 inches long and clusters of 6 to 25 blood-red flowers 2 inches across.

For previous introduction see 76911.

97677. RHODODENDRON THOMSONII Hook. f.

A Himalayan shrub up to 15 feet high, growing at altitudes between 10,000 and 11,000 feet, with glabrous obovate leaves 3 inches long and clusters of 6 to 25 blood-red flowers 2 inches across.

For previous introduction see 76911.

97678. RHODODENDRON VERNICOSUM Hook. f.

A Himalayan shrub up to 15 feet high, growing at altitudes between 10,000 and 11,000 feet, with glabrous obovate leaves 3 inches long and clusters of 6 to 25 blood-red flowers 2 inches across.

For previous introduction see 76911.
97702. Rubra. Flowers deep ruby pink.


97704 and 97705. Erica vagans L. Cornish heath.

97704. Mrs. F. D. Maxwell. Flowers deep salmon pink.


James Ivory. A wonderful form of Eryngium alpinum with large deep-blue feathery teazle-shaped flowers.


The tradescantias are showy border plants which grow up to 2 feet high and flower all through the summer.

97707. Tradescantia sp. Iris Pritchard. A variety with white flowers heavily stained with azure blue, and blue center. It grows 18 inches high and blooms in August and September.

97708. Tradescantia sp. James Crawford Weguelin. A plant 18 inches high, with large flowers of a uniform light azure blue.

97709. Tradescantia sp. James Stratton. A new variety with large flowers 2½ inches from tip to tip, deep delphinium mauve, slightly shaded with rose.

97710. Tradescantia sp. Leonora. The very fine flowers are a deep rich glowing violet.

97711. Tradescantia sp. Purowell Giant. An extremely effective variety with light mauve-blue flowers.

97712. Verbena bonariensis L. Verbenaceae. A vilois-hirsute herbaceous plant, 2 to 4 feet high, native to Brazil. The partly clasping leaves, 2 to 3 inches long, are serrate with broad teeth, and the small bright-purple flowers are borne in dense spikes.

97713 to 97739—Continued

97713. A large red-skinned species, more like a Swede than a turnip, full of sugar, flesh firm, hard in parts. Grown at 11,000 feet altitude in the R.dong district of southeastern Tibet. Harvested in September.


97721. From Jite.

97722. Collected in the Adung Valley at 6,000 feet altitude.

97723. A variety grown locally.


97726. A variety with brown seeds.


The Tibetan wild gooseberry collected in the outer conifer belt between 9,000 and 11,000 feet altitude. The fruit is small, hard, red, and inedible.


A stout bush with edible fruit, collected in the forest region between 10,000 and 11,000 feet altitude.


A variety grown locally.
97740 to 97745.

From the West Indies. Material collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931–32 Allison V. Armour expedition. Received February 29, 1932.


No. 2634. Collected in the Botanic Gardens, Dominica, Leeward Islands, January 29, 1932. A cluster palm with no trunk, which suckers from the ground and forms clumps 10 feet across. The pinnae are 16 inches long and over an inch wide and are fiddle shaped. The fruits are red and less than an inch in diameter.

97741. CALATHEA SP. Marantaceae.

No. 2730. Tubers presented by Mrs. Charles W. Doorley, from the garden of the Government House, St. Lucia, Windward Islands, February 3, 1932. The leaves of this perennial herb are periw re colored in the center, and the flower spike 8 inches high is the same color. The large pinnae are shadowy, drooping and acid- or neutral-sole plants and useful only where they are given constant care.

97742 and 97743. DIOSCOREA spp. Dioscoreaceae.

Tubers purchased in the market at Dominica, Leeward Islands, January 29, 1932.

97744. DIOSCOREA ALATA L. Winged yam. Winged yam.

No. 2706. The lady yam.

97745. DIOSCOREA TRIFIDA L. f. Yampe.

No. 2705. Cuscus yam. A small yam which is delicious when baked and served with drawn butter.

97747. MANGIFERA INDICA L. Anacardiaceae. Mango.

From the island of Guam. Plants presented by H. G. MacMillan and C. O. Erlanson, Bureau of Plant Industry. Received March 8, 1932.

97747. MANGIFERA INDICA L. Anacardiaceae. Mango.

From the island of Guam. Plants presented by C. W. Edwards, director, Agricultural Experiment Station. Received October 20, 1932. Numbered in March, 1932.

Saipan. The fruit of this mango is much inferior to that of the Carabao and other leading mango varieties, but it is relatively very hardy. Seedlings come into bearing in from 4 to 5 years and it makes a good stock.

For previous introduction see 97265.


From Chile, South America. Tubers collected by H. G. MacMillan and C. O. Erlanson, Bureau of Plant Industry. Received March 4, 1932.

No. 28. Collected January 16, 1932 in a garden at Puerto Varas. A cultivated variety with double red flowers.

97749. BERBERIS PARVIFOLIA Sprague. Berberidaceae.

From Sweden. Seeds presented by Hortus Botanicus Bergianus, Stockholm. Received March 4, 1932.

A low shrub from western China, with half-evergreen, occasionally spiny-toothed leaves, golden-yellow flowers, and globose berries of a terra-cotta color.

For previous introduction see 67137.

97750 to 97790.

From the West Indies. Seeds collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931–32 Allison V. Armour expedition. Received February 29, 1932.

97750. ACACIA CUNNINGHAMII Hook. Mimosaceae.

No. 2659. Collected in the Botanic Garden on St. Lucia, Windward Islands, January 26, 1932. A species which grows wild in the wet lands of the island. It is not cultivated, probably because an abundance can be obtained by digging in the forest.

For previous introduction see 29129.


Bulbs of the fire-lily or poison-lily; a flower of fire without leaves, very characteristic.

97752. ANACARDIUM OCCIDENTALS L. Anacardiaceae.

From western China, with half-evergreen, occasionally spiny-toothed leaves, golden-yellow flowers, and globose berries of a terra-cotta color.

For previous introduction see 29129.


No. 2791. Collected February 8, 1932, on Carriacou, Grenadine Islands. An ornamental tropical African bush or small tree with handsome pink flowers variegated with yellow and spotted with red.

For previous introduction see 88512.

97753. BUCIDA BUCERAS L. Combretaceae.

No. 2653. Collected in the Botanic Garden on St. Lucia, Windward Islands, February 3, 1932. The casheew nut of commerce.


No. 2701. Collected February 8, 1932, on Carriacou, Grenadine Islands. An ornamental tropical African bush or small tree with handsome pink flowers variegated with yellow and spotted with red.

For previous introduction see 88512.

97755. BUCIDA BUCERAS L. Combretaceae.

No. 2653. Whitewood. Presented by the head gardener at the St. John's Botanic Garden, Antigua, January 26, 1932. A large handsome tree similar to No. 2608. Of probable value as a windbreak, as these trees are found on...
97750 to 97790—Continued
the wind-swept hillsides of the islands, growing both on limestone and clay soils.

For previous introduction see 96502.

97754. CACARA EROSA (L.) Kuntze. Fabaceae.

No. 2683. Collected January 24, 1932, on Mount Misery, Antigua. Found climbing over a tree in the rain forest.

97755 and 97756. CAJANUS INDICUS (L.) Kuntze. Fabaceae.

Collected on Bequla, Grenadine Islands, February 6, 1932.

97755. No. 2742. Willow stem. A variety characterized by having its pods at the tips of the slender branches which hang over like willow twigs. It is grown as an annular crop for export, but is not considered so good a variety as the Rose pea.

97756. No. 2743. Rose pea. This is the favorite variety on Bequla Island. The dark-brown pods are in bunches at the tips of short branches; the seeds are light pinkish yellow.

97757. ANNESLIA TBERGMINA (L.) Britt. and Rose (Calliandra tergmina Benth.). Mimosaceae.

No. 2690. Bois Ravine. Collected January 29, 1932, in the Botanic Garden on Dominica, Leeward Islands. A shrub or small tree which makes an exceedingly attractive hedge and is in bloom most of the time. When the foliage first appears it is pink, turning to yellow green and later to dark green. The showy part of the flower is the bundle of stamens colored in bands of pink, white, and red.

For previous introduction see 55790.

97758. CAVAVIAL MARITIMA (Aubl.) Thouars. Fabaceae.

No. 2612. Collected on Beata Island, Dominican Republic, January 11, 1932. A leguminous plant found growing on the beach of pure shell and limestone. It produces a good mat of foliage, and may be useful as a sand binder or as a green manure.

For previous introduction see 91236.

97759. CAPPARIS CYNOPHALLOPHORA L. Capparidaceae.

No. 2596. Collected at the base of Salt Pond Hill, Great Inagua, Bahamas January 15, 1932. A handsome small tree with leaves that are glossy above and rusty scaly underneath. The fragrant flowers have long purple filaments, and the long straw-colored pods are borne on the long gynophore, the stalk of the pistil.

97760. CARICA PAPAYA L. Papayaceae. Papaya.

No. 2789. Purchased in the market at Roseau, Dominica, Leeward Islands, January 23, 1932. A small variety not larger than an orange, with bright salmon-colored flesh one half inch thick and the outside of an unusually brilliant color. The flesh is sweet with a delectable flavor.

97750 to 97790—Continued

97761. CHRYSOPHYLLUM BICOLOR Poir. Sapotaceae.

No. 2716. St. Antonie, St. Lucia, Windward Islands, February 3, 1932. A tree to 50 feet high, with golden-silky twigs and leathery elliptic leaves 2 to 3 inches long, dark-green above and silvery beneath. The small flowers are borne in fascicles and are followed by the brown oblong edible fruits 1 to 2 inches long. It is native to the West Indies.

97762. TRIMEZA MARTINICENSIS (Jacq.) Herb. (Cipura martinicensis H. B. K.). Iridaceae.

No. 2665. Collected January 26, 1932, on Antigua, Leeward Islands. A yellow iris-like plant 18 inches high with small round rhizomes having intensely yellow flesh, light-green leaves, and small yellow flowers. Found wild in the grass on the hillsides of McCarthy Valley, near Boggy Peak. Said to grow down almost to sea level in Antigua where it is endemic.

97763. CORDIA ALBA (Jacq.) Roem. and Schult. Boraginaceae.

No. 2635. White manjack or Moral. Collected on St. Kitts, Leeward Islands, January 23, 1932. An attractive evergreen up to 30 feet high with large light-green glossy leaves. The fruits are translucent, pinkish white, and very mucilaginous.

For previous introduction see 90911.

97764 and 97765. CRACCA SPP. Fabaceae.

Collected January 29, 1932, in the Botanic Garden on Dominica, Leeward Islands.

97764. CRACCA CANDIDA (DC.) Kuntze (Tephrosia candida DC.).

No. 2721. A low shrub with slender branches and large clusters of reddish or white flowers. It is the preferred cover crop in the lime plantations of Dominica.

For previous introduction see 91413.

97765 CRACCA VILLOSA HIRTA (Buch.-Ham.) Kuntze (Tephrosia hirta Buch.-Ham.).

No. 2770. A low-growing species highly esteemed as a nitrifying legume for orchards.

For previous introduction see 76907.

97766. DATURA METEL FASTUOSA (L.) Safford. Solanaceae.

No. 2590. Collected in Nassau, New Providence Island, Bahamas, January 12, 1932. A small ornamental herbaceous annual which varies in height from 2 to 6 feet. It has entire or deeply toothed leaves about 4 inches long and flowers 7 inches or more in length, varying in color from white to lavender or rose.

For previous introduction see 91416.

97767. DOLICHOS LABLAB L. Fabaceae. Hyacinth-bean.

No. 2749. Collected near Grand Bay, Cannouan, Grenadine Islands. A variety with white seeds.

97768. HYMENARIA COURBARIL L. Caesalpiniaceae.

No. 2731. From St. Lucia, Windward Islands, February 3, 1932. A tall handsome tree with glossy leaves in pairs.
The large pods are very hard and contain a greenish powdery material that is edible. The willowy character of the vines should make it a good tree to plant in hurricane regions.

For previous introduction see 47655.

**97775. PASSIFLORA QUADRANGULARIS** L. Passifloraceae. Giant granadilla. No. 2645. From St. Kitts, January 24, 1932. A vine with large very luscious fruits, growing in acid soil.

**97776. PITA CaHRRNIA BRACTEATA** Alt. Bromeliaceae. No. 2767. Collected on St. Vincent, February 4, 1932. A very short-stemmed shrubby plant resembling a billbergia, with a dense rosette of narrow somewhat shallow leaves and a central spike-like raceme of red or yellow flowers. It is native to St. Vincent.

**97779. PITA CaHRRNIA COCCINEA** Hort. Bromeliaceae. No. 2723. A very striking ornamental with lax sprays of large tubular scarlet flowers which rise from a mass of typical bromellialike leaves, collected in the Botanic Garden, Dominica, Leeward Islands.

**97780. ALBEEIA BERTERIANA** (Bals.) Fawcett and Rendle (Pithecolobium berterianum Benth.). Mimosaceae. No. 2747. Collected in the Botanic Garden, St. Vincent, March 4, 1932. A tree over 100 feet high with smooth gray bark and branches, and small rather thin foliage which offers no resistance to the West Indian hurricanes. It does not cast a dense shade, but its clean gray buttressed trunk is most attractive and suited for large avenue effects and as a stately tree in parks.

**97801 and 97782. PLUMERIA OBUTSA** L. Apocynaceae. A handsome small tree with dark-green leathery leaves and rather small white flowers with a yellow eye.

**9781. No. 2570. Collected on Rum Key, Bahama Islands, January 6, 1932.**

**9782. No. 2627. Collected on Beata Key, Bahama Islands, January 27, 1932.**

**9783. QUAMOCLIT Coccinea** (L.) Moench. Convolvulaceae. Scarlet starglory. No. 2768. Collected at the Government House, St. Lucia, Windward Islands, February 3, 1932. A vine with entire coriaceous leaves over 2 inches long and 2 inches wide and many brilliant scarlet flowers with the corolla tube curved.

**9784. RANDIA FORMOSA** (Jacq.) Schum. Rubiaceae. No. 2664. Collected in the Botanic Garden, Dominica, Leeward Islands, January 29, 1932. An attractive flowering shrub with long white fragrant flowers. Each flower has a long slender tube and flat oval greenish corolla. The small fruits are striped different tints of greenish yellow and are about the size of a gooseberry. They are said to be edible.

**9785. SOLANUM MAMMOSUM** L. Solanaceae. Cork passiflora. No. 2741. Collected February 3, 1932, on St. Lucia. A strikingly ornamental, very spiny shrub, covered with large globose orange-colored fruits over 2 inches in diameter. The fruits are said to be poisonous, and evidently cattle and sheep do not touch them.

For previous introduction see 90935.
From Palestine. Seeds presented by the use of Department specialists.

No. 43. Collected January 23, 1932, at Orangetown, St. Eustatius Island, Dutch West Indies.

For previous introduction and description see 96517.

97787. TABEBUIA LEUCOXYLA DC. Bignoniaceae.

No. 2646. White cedar. Collected January 24, 1932, on St. Kitts, Leeward Islands.

For previous introduction and description see 97579.

97788. TABEBUIA PENTAPHYLLA (L.) Hemsl. Bignoniaceae.

No. 2647. Collected January 26, 1932, in the Botanic Gardens at St. Johns, Antigua, Leeward Islands. A handsome tropical deciduous tree about 35 feet high, native to Central America. During its flowering period, from January to March, the numerous large clusters of pink flowers make this tree very attractive.

For previous introduction see 81429.

97789. TAMARINDUS INDICA L. Caesalpinaceae. Tamarind.

No. 2748. Collected February 6, 1932, on Bequla, Grenadine Islands. A large-fruited tamarind with pods nearly 6 inches long and over an inch in diameter; they are thin skinned and rich in pulp of a delicate flavor. The pods are used in the manufacture of tamarind sirup. The young trees bear larger pods than the old trees.

97790. TILLANDSIA UTRICULATA L. Bromeliaceae.

No. 2644. Collected January 5, 1932, on Conception, Bahamas. An immense species with flower clusters said to be 8 to 10 feet high.

97791. LINUM USITATISSIMUM L. Linaceae. Flax.

From Africa. Seeds presented by the Agricultural Department, Nairobi, Kenya Colony, through Simpson & Whiteiw. Ltd., seed merchants, Nairobi. Received March 5, 1932.

Locally grown linseed introduced for the use of Department specialists.

97792 to 97799. From Palestine. Seeds presented by the deputy director, Department of Agriculture, Forests, and Fisheries, American Colony, Jerusalem. Received March 5, 1932.

97792 to 97797. TRIFOLIUM spp. Fabaceae. Clover.

97792. TRIFOLIUM CAMPESTRE Schreb.

A biennial or annual clover up to about 20 inches high, prostrate or ascending, with bright-yellow flowers. It is native to central Europe.

For previous introduction see 78938.

97793. TRIFOLIUM CLYPEATUM L.

For previous introduction see 28792.

97792 to 97799—Continued

97794. TRIFOLIUM LAPPACEUM L.

This plant is one of the less vigorous of the genus. It has a somewhat reclining habit of growth; the rather soft, delicate stems are seldom more than 12 or 15 inches long.

For previous introduction see 31057.

97795. TRIFOLIUM LOISELEURI Rouy (T. purpureum Loisel., not Gilib.). An annual clover, closely related to T. angustifolium, but differing in having somewhat broader leaflets and shorter flower heads. Native to sandy places in the fields of central Europe.

97796. TRIFOLIUM SCUTATUM Bolss. An annual clover with erect or procumbent stems up to a foot high, narrow obovate leaflets, and yellow flower heads. Native to Asia Minor.

97797. TRIFOLIUM LOISELEURI Rouy (T. purpureum Loisel., not Gilib.).

For previous introduction and description see 97785.


A tree with small brownish fruits from 1 to 2 inches in length.

For previous introduction see 90297.

97799. ZIZIPHUS SPIINA-CHRISTI (L.) Willd.

A small tree with bright-green cordate leaves and ovoid fragrant red-brown fruits, the size of a hazel nut.

97800. PISTACIA VERA L. Anacardiaceae. Pistache.

From Syria. Scions presented by Arshak Maroukian, through Sahac Sahacian, Bab-el-Faraaj, Aleppo. Received March 7, 1932.

A good variety, collected in the vicinity of Aleppo.

97801 to 97803.

From Africa. Seeds presented by P. R. L. Putnam Penje, Avakubi, Belgian Congo. Received March 7, 1932.


97802. RANDIA sp. Rubiaceae.

A shrub growing both in the dense forest and on village plazas. The flowers are ornamental, and the full-grown but unripe fruit is beaten to a pulp and used by the natives to paint designs on their bodies. When dry the juice becomes jet black and cannot be removed for several days.

97803. SARCOPHYTINUM sp. Marantaceae.

A shrub found in the less shady parts of the forest. Clumps of the leaves are ornamental, as are also the bright-red seed capsules which are 3-chambered, each chamber containing one seed. The broad durable leaves are used by the natives for thatching their huts; the skin of the stems of the leaves makes excellent small mats; the shoots are boiled or fried as a vegetable and the seeds are roasted and eaten.
97804 to 97816. Phoenicaceae. Palm.

From the West Indies and British Guiana. Seeds collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armour expedition. Received March 7, 1932.

97804. (Undetermined.)

No. 2956. Collected February 19, 1932, in the Botanic Station at Scarborough, Tobago. A graceful feather palm with a smooth trunk 15 feet high and 6 inches in diameter. The fruits are oblong cylindrical, pointed, 1 inch long by 1 1/2 inches in diameter.

97805. ARCHONTOPHoenix ALEXANDRAB (F. Muell.) Wendl. and Drude.

No. 2953. Collected February 25, 1932, in the Botanic Garden, Georgetown, British Guiana. A pinnate-leaved palm 70 to 80 feet high, with leaves several feet long, of lanceolate, usually entire leaflets, 1 to 2 feet long and whitish beneath. The green-yellow flowers are borne in a cluster about 1 foot long and are followed by small round fruits. It is native to Queensland, Australia.

For previous introduction see 91772.

97806. PYTCHOSPERMA sp.

No. 2953. Collected February 19, 1932, in the Botanic Station, Scarborough, Tobago. An attractive cluster palm whose pinnate leaves have obliquely truncated pinnae.

97807. ARECA TRIANDRA Roxb.

No. 2954. Collected February 19, 1932, in the Botanic Station, Scarborough, Tobago. A graceful spineless palm ultimately about 25 feet high, usually with several trunks which bear crowns of pinnate leaves 4 to 6 feet in length. The fruits, about the size of an olive, are orange-scarlet. Native to India.

For previous introduction see 93400.

97808. ASTROCARYUM TUCUMA Mart.

No. 2956. Purchased in the market at Georgetown, British Guiana, February 13, 1932. A rather low-growing Brazilian palm with a spiny trunk and large pinnate leaves armed with stout black spines along the midrib. The fragrant smooth oily fruits, over an inch in diameter, have yellow-orange flesh with very little fiber and a flavor something like a hazel nut.

97809. ASTROCARYUM SEGREGATUM Mart.

No. 2957. Collected February 19, 1932, in the Botanic Garden, Georgetown, British Guiana. A graceful palm with a trunk seldom more than 4 inches in diameter. It is said that fats suitable for oils and soaps can be derived from its blue-black berrylike fruits.

For previous introduction see 94591.

97810. EUTERPE OLERACEA Mart.

No. 2955. Collected on Tobago, Windward Islands, February 20, 1932. A graceful palm with a trunk seldom more than 4 inches in diameter. The wax palm of Brazil, Georgetown, British Guiana, February 25, 1932. A very little fiber and a flavor something like a hazel nut.

97811. COPERNICIA CERIFERA Mart.

No. 2983. Collected February 25, 1932, in the Botanic Garden, Georgetown, British Guiana. A pinnate-leaved palm 70 to 80 feet high, with leaves several feet long, of lanceolate, usually entire leaflets, 1 to 2 feet long and whitish beneath. The green-yellow flowers are borne in a cluster about 1 foot long and are followed by small round fruits. It is native to Queensland, Australia.

For previous introduction see 71917.

97812. DESMOCNUIS sp.

No. 2951. Collected February 16, 1932, in the Forest Reserve, Trinidad. A climbing palm, covered with spines, found in the deep forest. The bunches of delicious caracel fruits are very attractive.

97813. HYPOAE CHERIBA (L.) Mart.

No. 2950. Collected in the Botanic Garden, Georgetown, British Guiana, February 19, 1932. A palm about 30 feet high which is noted as one of the few branching palms. It grows in alkaline sandy and clay soils and is distributed from Egypt to central Africa. The stems of old trees are sometimes forked 3 or 4 times. The beautiful yellow-brownish fruits are borne in long clusters of one to two hundred. In upper Egypt people of the poorer classes eat the fiber buck, which tastes much like gingerbread, but is rather hard. The hard tough wood is used for domestic utensils. It is one of the most striking and picturesque of the palms and is capable of withstanding severe droughts under desert conditions, as well as the moisture-laden atmosphere of British Guiana.

For previous introduction see 89741.

97814. LIGUZAL GRANDIS (Bull.) Wendl.

No. 2978. Collected in the Botanic Garden, Georgetown, British Guiana, February 13, 1932. A dwarf palm with the stem clothed with the dead leaf sheaths. The erect spreading fan-shaped leaves have many plicate segments which are two-lobed at the end. Native to the island of New Pommern, Bismarck Archipelago.

For previous introduction see 81589.

97816. LIVISTONA HOOGENDORPI Andre.

No. 2984. Collected in the Botanic Garden, Georgetown, British Guiana, February 19, 1932. A tall Javanese palm with fan-shaped leaves having plicate segments which are two-lobed at the end. The bunches of deep-scarlet fruits are very attractive. The stems of old trees are sometimes forked 3 or 4 times. The beautiful yellow-brownish fruits are borne in long clusters of one to two hundred. In upper Egypt people of the poorer classes eat the fiber buck, which tastes much like gingerbread, but is rather hard. The hard tough wood is used for domestic utensils. It is one of the most striking and picturesque of the palms and is capable of withstanding severe droughts under desert conditions, as well as the moisture-laden atmosphere of British Guiana.

For previous introduction see 81589.

97817 and 97818.

From India. Seeds presented by D. N. Mabot, second economic botanist, Central Province at the request of the director of agriculture Nagpur. Received February 26, 1932.

97817. ALYSSACAPUS RUGOSUS (Willd.) DC. Fabaceae.

An erect annual legume, native to southern Asia and Africa. The tough
PLANT MATERIAL INTRODUCED

97817 and 97818—Continued

stems are 3 to 4 feet high, and the roots bear nitrogen nodules.

For previous introduction see 71803.

97818. INDIGO FER LINIFOLIA (L. f.) Retz. Fabaceae. Indigo. A legume with fine stems and numerous small leaves, growing to a height of 6 to 8 inches. Considered one of the best pasture plants of the Ganges Valley.

For previous introduction see 33608.


For previous introduction and description see 96492.

97820 and 97821.

From the West Indies. Material collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armour expedition. Received March 15, 1932.

97820. DIOSCOREA ESCULENTA (Lour.) Burkill. Dioscoreaceae. Lesser yam. No. 2878. Tuber collected in the Botanic Garden, Trinidad, February 15, 1932. A smooth-skinned, white-fleshed yam with the sweetish taste characteristic of most varieties of this species. The single tuber received is roughly cylindrical and of good size, weighing 15 ounces and measuring 8 inches long by nearly 3 inches thick.


97822. TUBBAREA OSTUSIFOLIA Hochst. Meliaceae.

From Los Angeles, Calif. Seeds presented by P. D. Barnhart. Received March 8, 1932.

An attractive dwarf evergreen shrub, native to southern Africa, 4 to 6 feet high, which bears, between October and March, an abundance of white flowers which have strap-shaped petals 2 inches long. When in bloom the pure white flowers cover the plant and it is a veritable bouquet. When the capsules deliquesce, the pretty seeds remain in the valves; hence whether the plant is in flower or in fruit, it is an ornament to any garden.

For previous introduction see 80214.


From the West Indies. Seeds collected by G. G. Albury, commissioner. The Bight, Cat Island, Bahamas, at the request of Dr. Fairchild. Received March 21, 1932.

For previous introduction and description see 99488.

97824 to 97827.

From the West Indies. Material collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armour expedition. Received March 7, 1932.

97824. ANANAS SATIVUS Schult. f. Bromeliaceae. Pineapple. No. 2928. Suckers of a wild pineapple found along the roadside in the eastern part of Trinidad. It grows in light sandy soil which is seldom dry and where it is not exposed to the intense sunlight for more than a few hours a day. May be useful for breeding purposes.

97825 to 97827. CITRUS spp. Rutaceae.

97825. CITRUS AURANTIPIOLA (Christm.) Swingle. Lime. No. 2942. From Charlotteville, Tobago, Windward Islands.

97826. CITRUS MEDICA L. Citron. No. 2933. From the market at Port-of-Spain, Trinidad, February 18, 1932. A fruit with very thick, golden-yellow skin, acid yellow flesh, and very small seeds.

97827. CITRUS GRANDIS (L.) Osbeck. Grapefruit. No. 2931. From the Scarborough Botanic Station, Tobago, February 19, 1932. A locally selected seedling of exceptionally good flavor, but very seedy and not very juicy.

97828 and 97829.


97828. EUPHORBIA sp. Euphorbiaceae. Fengotra or 'fangoka. A large tropical tree, native to Madagascar, which resembles the Royal poinciana (Delonix regia). The trunk sometimes attains a diameter of over 3 feet. The leaves appear in October (in Madagascar), and the flowers are borne in December. The pod becomes 16 inches long.

97829. (Undetermined.) From the Union of Soviet Socialist Republics. Seeds presented by Maj. C. R. Oberg, Tiflis, Transcaucasia. Received March 21, 1932. A wild lemon which is used as a stock on which to bud the mandarin orange.

97830. CITRUS sp. Rutaceae.

From Japan. Scions presented by Sanichi Ishihara, Agricultural Experiment Station, Gifu Ken. Received March 14, 1932.


From Japan. Scions presented by Sanichi Ishihara, Agricultural Experiment Station, Gifu Ken. Received March 14, 1932.

97831. GINJOSE.

97832. KANOTSUME.

97833. Kasahara Wase.
97834-97852—Continued

97841. TONTANCA GIUMANENSIS Aubl. (Goecosipidium giuanense Schum.). Rubiaceae.
No. 2918. Collected in the St. Andrew district, Trinidad, February 18, 1932. A partly trailing herb growing over the ground in the moist forest. It bears gorgeous bright royal-blue berries and would be a most attractive plant for use in moist shady borders.

97842. CORDIA ALLODORA (Rius and Pavy) Cham. Boraginaceae.
No. 2863. Collected in Trinidad, February 17, 1932. The so-called Cypro of Trinidad. A large tree which becomes 8 or 9 feet in diameter and is conspicuous on the landscape with its gray-white flowers which exhale a faint perfume. As it grows in the drier parts of Trinidad, it may prove a good street tree in the southern United States.

97843. COSTUS sp. Zingiberaceae.
No. 2925. From the Arena Forest, Trinidad, February 16, 1932. A large coarse-leaved undershrub found in the rain forest of Trinidad. Its cone-like inflorescence is rather attractive.

97844. EPHISEMA VIOLACEA (Aubl.) Don. Fabaceae.
No. 2804. Collected February 17, 1932, on the Mavisica Savanna, Trinidad. A promising perennial legume for wet lands with high water table. It grows over 4 feet high, and the upright woolly branches are rather sparsely set with foliage.

97845. FICUS sp. Moraceae.
No. 2704. Collected on Carriacou, Grenadine Islands, February 8, 1932. A medium-sized tree found on a hillside, exposed to the trade winds which sweep over the island. The light-green leafy leaves, 4 to 6 inches long, have prominent midribs. The branches are covered with very decorative small figs. Each fig has red-brown patterns of spots and are closely set on each spot, giving it a most charming appearance.

97846. GEOFILHA HEBRACHA (Jacq.) Schum. Rubiaceae.
No. 2903. From the Botanic Garden, Trinidad, February 16, 1932. A woody creeper that grows in the woods among roots and makes an attractive creeper. The white flowers are followed by red berries. It may prove useful in borders in shady places where water is abundant.

97847. ICHTHYOMETRIA PISCIPULA (L.) Hitchc. Fabaceae.
No. 2790. From Carriacou, February 8, 1932. An attractive leguminous shrub tree of spreading habit which becomes 50 feet high with clean gray trunks and large pinnate leaves. The large racemes of bloom, pink flowers appear before the leaves and somewhat resemble the black locust. The wood is used for cart building.

97848. IXORA sp. Rubiaceae.
No. 2902. From Port-of-Spain, Trinidad, February 16, 1932. An unwood hybrid of Eugene André's creation. The flowers are light pink, with half of the under side of each petal pink and the other half white. Presented by his daughter, Mrs. Nora C. Fill.
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PLANT MATERIAL INTRODUCED

97854 to 97855—Continued

97849. Kigelia pinnata (Jacq.) DC. Bignoniaceae.

No. 2666. From the Botanic Garden, Dominica, Leeward Islands, January 28, 1932. The sausage tree of Abyssinia. A good shade tree with leaves rough like sandpaper and pendent flower spikes 8 feet long. It is a very curious tree when in bloom.

For previous introduction see 52170.

97860. Lycopersicon esculentum Mill. Solanaceae.

No. 2996. From the Cotton Research Station, St. Augustine, Trinidad, February 17, 1932. Supposed to be the original wild tomato of the Peruvian Andes.


No. 2844. From the Botanic Garden, Port-of-Spain, Trinidad, February 2, 1932. A plant with very beautiful deep-crimson flowers which is used as a border plant in the Botanic Garden. It resembles sage, but is not quite as showy.

97852. Solanum macranthum Dunal. Solanaceae.

No. 2946. From Trinidad, February 16, 1932. Potato tree. A very rapid-growing tree with large dark-green spiny leaves and a great profusion of large blue-violet flowers which change color from day to day, becoming a pale blue and later fading to white.

97853 to 97859.

From China. Seeds and scions collected by Peter Liu, Hopeh Province. Received March 10, 1932.

All material, except 97853 and 97855, was collected at Panshan, northwest of Chichow, Hopeh Province.


97853. Seeds collected at Tsunhua-chow.

97854. Scions of the Early chestnut.

97855. Huchiyuy. Scions collected in the village north of Chichow.

97856. Scions of the Late chestnut.

97857. Scions of Ju Jou Li, meaning one chestnut only in each thorny coat. The so-called Chinese chestnut is a small tree with soft inner coat.


Scions of a large-fruited persimmon.


97860 to 97863—Continued

97861. Acacia scorpioides (L.) W. F. Wright (A. arabica Willd.). Mimosaceae.

No. 2761. From Cannouan, Grenadine Islands, February 6, 1932. An attractive tree with yellow flowers followed by moniliform gray flattened pods.

97862. Albizia sp. Mimosaceae.

No. 2795. Collected February 8, 1932, on Carriacou, Windward Islands. A strikingly beautiful tree over 50 feet high with 18 inches in diameter, with gray bark and delicate fine pinnate leaves. The abundance of dry pods reminds one of the lebbek tree.


No. 2718. Collected on St. Lucia, February 3, 1932.

For previous introduction and description see 97255.


No. 2764. From Cannouan, February 6, 1932. A spiny bush 20 feet high with very slender branches and small leaves. The flowers are said to be white.


A long podded vigorous legume, similar to the rice bean.

97865. No. 2722. Collected from a field at Government House, St. Lucia, February 3, 1932.

97866. No. 2778. Collected along the roadside on Bequia, Grenadine Islands, February 5, 1932.


No. 2785. From the Botanic Garden, Dominica, Leeward Islands, January 29, 1932. A small-podded variety which is used as a cover crop in the island.

97868. Cassia nodosa Buch.-Ham. Caesalpiniaeeae.

No. 2779. Collected on St. Lucia, February 5, 1932. A moderate-sized deciduous tree with long drooping branches and glossy leaves; in the spring it bears a profusion of beautiful pink rose-scented flowers in dense clusters on long stalks. The leaves and flowers appear at the same time.

For previous introduction see 93777.


No. 2740. Collected in the Botanic Garden, Dominica, January 29, 1932. A striking species of this genus with a crooked angular trunk. The so-called leaves are finer and of a gray-green cast, and the pods are a little larger than those of C. equisetifolia.


No. 2658. From Cannouan, Grenadine Islands, February 6, 1932. A spiny bush 20 feet high with very slender branches and small leaves. The flowers are said to be white.


No. 2896. From the Cotton Research Station, St. Augustine, Trinidad, February 17, 1932. A plant with very beautiful deep-crimson flowers which is used as a border plant in the Botanic Garden. It resembles sage, but is not quite as showy.


No. 2722. Collected from a roadside on Bequia, Grenadine Islands, February 5, 1932. A plant with very beautiful deep-crimson flowers which is used as a border plant in the Botanic Garden. It resembles sage, but is not quite as showy.


No. 2844. From the Botanic Garden, Port-of-Spain, Trinidad, February 2, 1932. A plant with very beautiful deep-crimson flowers which is used as a border plant in the Botanic Garden. It resembles sage, but is not quite as showy.

97874. Solanum macranthum Dunal. Solanaceae.

No. 2946. From Trinidad, February 16, 1932. Potato tree. A very rapid-growing tree with large dark-green spiny leaves and a great profusion of large blue-violet flowers which change color from day to day, becoming a pale blue and later fading to white.

97875 to 97879.

From China. Seeds and scions collected by Peter Liu, Hopeh Province. Received March 10, 1932.

All material, except 97853 and 97855, was collected at Panshan, northwest of Chichow, Hopeh Province.


97875. Seeds collected at Tsunhua-chow.

97876. Scions of the Early chestnut.

97877. Huchiyuy. Scions collected in the village north of Chichow.

97878. Scions of the Late chestnut.

97879. Scions of Ju Jou Li, meaning one chestnut only in each thorny coat. The so-called Chinese chestnut is a small tree with soft inner coat.


Scions of a large-fruited persimmon.


No. 2786. Collected on St. Lucia, Windward Islands, February 3, 1932. Wild okra. An ornamental annual 3 to 12 feet high, which bears large light-yellow flowers with deep dark-chocolate purple spots in the throat. For previous introduction see 97765.
97860 to 97909—Continued

97871. CRACCA VILLOSAS PURPUREA (L.) Kunth (Tephrosia purpurea Pers.). Fabaceae.

No. 2783. Collected January 21, 1932, on a roadside on St. Eustatius, Dutch West Indies. A tall yellowflowered trifoliate species. For previous introduction see 97870.


No. 2633. Collected January 21, 1932, on a roadside on St. Eustatius, Dutch West Indies. A leguminous tree with showy white flowers. For previous introduction see 97871.

97873 and 97874. CROTALARIA BETUSA L. (L.) Spreng. Fabaceae. Indigo.

No. 2774. Collected February 5, 1932, on Cannouan. A pubescent species with simple leaves and yellow flowers. For previous introduction see 97872.

97874. No. 2777. Collected February 5, 1932, on Bequia. A yellow-flowered species. For previous introduction see 97873.


No. 2772. Collected at the Experiment Station near Castries, St. Lucia, February 2, 1932. A leguminous plant which forms a dense low growth and endures partial shade. For previous introduction see 97874.


No. 2642. Collected on St. Kitts, January 23, 1932. A climbing legume with pods over 3 inches long. Flowers not seen. For previous introduction see 97875.


No. 2649. Collected on St. Kitts, January 29, 1932. A species with entire pubescent leaves and terminal inflorescence of brilliant yellow flowers. For previous introduction see 97876.


No. 2652. From St. Kitts, January 26, 1932. For previous introduction and description see 97877.


No. 2592. Collected at Nassau, New Providence, Bahamas, January 10, 1932. For previous introduction and description see 97771.

97880. MEIBOMIA SP. Fabaceae. Ayoejas.

No. 2662. Collected on St. Kitts, January 24, 1932. Said to be a valuable pasture grass. For previous introduction see 97878.


No. 2640. Collected on St. Kitts, January 23, 1932. A climbing legume with yellow flowers. For previous introduction and description see 97880.

97882. DOLICHOLUS SP. Fabaceae.

No. 2640. Collected on St. Kitts, January 23, 1932. A climbing legume with yellow flowers. For previous introduction and description see 97881.

97883. PHASEOLUS ADNANTHUS G. Meyer. Fabaceae.

No. 2775. Collected February 3, 1932, on St. Lucia. A climbing legume with pods over 3 inches long. Flowers not seen. For previous introduction see 97882.

97884. GUILLANDINA OVAFOLIA (Urban) Britton. Caesalpiniaceae.

No. 2663. Collected on Beads Island, Dominican Republic. A very prickly vine which is one of the few that can stand the constant salt breezes of the coast. It differs from Guilandina bonduc in having perfectly globular golden-brown seeds. For previous introduction see 97883.

97885 and 97886. INDIGOFERA SUFRUTICOSA Mill. Fabaceae. Indigo.

A slender, yellow-flowered bushy legume, 3 to 5 feet high, producing a rather scanty growth, which is not considered one of the best cover crops. For previous introduction see 97884.

97886. No. 2661. Collected January 26, 1932, in the Botanic Garden at Roseau, Dominica. For previous introduction see 97885.

97887. TERAMNUS LABIALIS (L.) Sprung. Fabaceae.

No. 2789. Collected February 3, 1932, on St. Lucia. A legume found growing on the dry side of the island. It twined up over the tall grasses, and its great productiveness and the vigor of its growth are in its favor as a cover crop, although there is little substance in its foliage. For previous introduction see 97886.

97888. JASMINUM AZORICUM L. Oleaceae. Azores jasmine.

No. 2592. Collected at Nassau, New Providence, Bahamas, January 10, 1932. For previous introduction and description see 97771.

97889. MEIBOMIA SP. Fabaceae.

No. 2789. Collected on Dominica, January 30, 1932. A legume found growing wild. For previous introduction see 97888.

97890. MYRISPERMUM FRUTICENS Jacq. Fabaceae.

No. 2784. Cercip tree. Collected in the Botanic Garden, Dominica, January 29, 1932. A large tropical-American leguminous tree with showy white flowers. It is worth a trial for street and park purposes. For previous introduction see 97889.


No. 2662. Collected on St. Kitts, January 24, 1932. Said to be a valuable pasture grass. For previous introduction see 97890.

97892 to 97896. PHASEOLUS SP. Fabaceae. Bean.

97892 and 97893. PHASEOLUS LATHYRIDES L. Fabaceae.

Collected on St. Lucia, February 2 and 3, 1932.
Continued

97892. **No. 2719.** A wild legume with small green seeds and narrow dark-brown pods; collected in the grounds of the experiment station.

97893. **No. 2771.** Collected on the roadside. A dark dusky red-flowed legume of rather scrappy habit. Not very promising looking as a cover crop, but it may be quite decorative under culture.

97894 and 97895. **PSEUDOLUS VULGARIS L.** Common bean. Collected by H. H. Wright in November, 1931, on the grounds of the experiment station.

97896. **PHASEOLUS SP.** No. 2586. Collected on Eleuthera, Bahamas, January 11, 1932. The bean commonly used by the people of the island, who pronounce it excellent for cooking but not so palatable as the pigeonpea.

97897. **Piper STIZOLOBIUM ATERRIMUM** sp. **Bromeliaceae.** TILLANDSIA orange. No. 2732. From St. Lucia, February 9, 1932. A large species with purple inflorescence which climbs to the top of the tall trees. Very interesting as a cover crop, but it may be a good street tree.

97898. **ZIZIPHUS NO. 2731.** A wild legume of scraggly habit. Not very promising looking as a cover crop, but it may be quite decorative under culture.

97899. **STEGNOSPBRMA HALIMIFOLIUM** sp. Apocynaceae. The arillus stains one's fingers bright red. Collected on Spanish Wells, Bahama Islands. A small tree with glossy evergreen leaves and large angular pods. Collected by David Fairchild and F. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931–32 Allision V. Armour expedition to the West Indies. Received March 14, 1932.

97900. **TOLUIFERA PEREIRAB (Klotzsch)** sp. Rhamnaceae. ZIZIPHUS. No. 2650. From Port Orange, St. Augustine, Florida, January 22, 1932. An attractive tree about 20 feet high, with dark-green coriaceous obovate leaves and small black sweet berries. As the tree was growing near the coast, it would be suitable for culture on wind-swept beaches, and may prove a good hedge or windbreak tree.

97901. **ELABIS MELANOCOCCA** sp. Rhamnaceae. From Beata Island, Dominican Republic. January 17, 1932. A handsome evergreen tree about 50 feet high with the pinnae all in one plane. The fruits are small, an inch long, with tiny black spines and a tough oily endosperm. The tree may be useful as a street tree.

97902. **ASTROCARYUM PARAMACA** Mart. Sapotaceae. No. 3685. Purchased in the market at Paramaribo, Surinam, March 2, 1932. A low-growing very attractive shade-loving pinnate palm from 6 to 8 feet high, with the pinnae all in one plane. The inflorescence consists of a single central upright spadix to which the fruits are attached by a peduncle 1 inch long. The fruits are small, an inch long, with tiny black spines and a tough oily endosperm.

97903. (Undetermined.) From Beata Island, Dominican Republic. Received without notes.

97904. **PORTLANDIA DOMINGENSIS** Britton. Rubiaceae. No. 2624. Collected January 20, 1932, on Saona Island, Dominican Republic. A small shrub with glossy evergreen leaves and large angular pods. It is not seen, but the shrub may be valuable for windbreak purposes.

97905. **BURELIA OBOVATA** (Lam.) DC. Sapotaceae. No. 2622. Collected January 20, 1932, on Saona Island. A handsome evergreen tree about 20 feet high, with dark-green coriaceous obovate leaves and small black sweet berries. As the tree was growing near the coast, it would be suitable for culture on wind-swept beaches, and may prove a good hedge or windbreak tree.
97910 to 97912—Continued

97912. ENGELEROPHNIX BEURA (Mart.) Kuntze (Maximiliana regia Mart.).

No. 3884. Maripa palm. Purchased in the market at Paramaribo, Surinam, March 3, 1932. This is a massive pinnate palm up to 50 feet high, with persistent leaf petioles and immense leaves, reminding one of the Cabbage. The subacid fruits have thin fleshy pulp and are much appreciated by the natives.

97913. EUTERPE EDULIS Mart. Para palm.


For previous introduction and description see 97824.

97914. LIVISTONA HOOGENDORPHI André.

No. 3651. From the Georgetown Botanic Garden, British Guiana, February 23, 1932. A form with black fruits.

For previous introduction and description see 97816.

97915. MAURITIA FLEXUOSA L. f.

No. 3652. From near Flagstaff, British Guiana, February 23, 1932. A palm, native to tropical Brazil, which grows to a height of 150 feet and 30 inches in diameter. The leaves are from 9 to 16 feet long. This is one of the so-called ivory-nut palms. The fruit is spherical, about the size of a small apple, and covered with small smooth reticulated scales. The fruit is loaded with small black pointed seeds, often more than two men can carry.

For previous introduction see 93553.

97916. PHOENIX sp.


97917. LIVISTONA AUSTRALIS (R. Br.) Mart.

Australian fan palm.

No. 3686. Collected March 4, 1932, in Paramaribo, Surinam. A tall slender palm with leaflets 30 to 40 feet high with smooth trunk, 8 to 10 inches in diameter, and a dense crown of circular leaves, 3 to 4 feet long. The leaflets are divided nearly to the base into narrow plicate segments. The moderately hard light-colored wood is occasionally used for light construction work; the leaves are used for baskets; and the unexpanded fronds, after being dipped in boiling water, are dried, shreded, and the fiber is used in making hats resembling Panama hats.

For previous introduction see 80186.

97918. THRINAX sp.

No. 3689. Collected March 4, 1932, near Georgetown, British Guiana. A graceful palm with brilliant white fruit size of marbles.

97919 to 97922. APIUM spp. Apiaceae.

From France. Seeds presented by Prof. D. Bals, Museum of Natural History, Paris, Received March 12, 1932.

97919. APIUM AMMI Urban.

A tropical annual with fusiform roots and acaule. The root is covered with a branched stem 2 or 3 feet high. The leaves vary from linear to lanceolate, and the small white flowers are in small umbels. Native to Brazil.

97920. APIUM GRAVEOLENS L. Celery.

Introduced for the use of Department specialists.

97921. APIUM NODIFLORUM Reichenb. f.

A perennial native to fields and open places in western Germany. The stem of this species does not take root at the internodes.

97922. APIUM REFENS Reichenb. f.

A perennial herb with coarsely pinnately cut leaves. The stem develops roots anywhere along the internodes. Native to swampy places in northern Germany.

97923. LONCHOCARPUS NICOU (Aubl.) DC. Fabaceae.

Nicou.

From Peru. Roots presented by William J. Dennis, Des Moines, Iowa. Received March 22, 1932.

A woody vine, climbing to the tops of trees, with alternate compound leaves made up of seven ovate sharp-pointed leaflets and axillary spikes of pea-shaped purple flowers. It is native to Guiana and Peru, where the roots are used as fish poison.

For previous introduction see 88328.

97924 to 97941.

From the West Indies and the Guianas. Seeds and scions collected by David Fairchild, E. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931–32 Allison V. Armour expedition. Received March 14, 1932.

97924. ALPINIA EXALTATA (L.) Roem. and Schult. Zingiberaceae.

No. 3676. March 3, 1932. Purchased in the market at Paramaribo, Surinam. The purplish-brown fruits of this plant are used to flavor curry sauce and to give it its yellow color. The flavor is superior to that of turmeric.

97925. ANANAS SATIVUS Schult. f. Bromeliaceae.

Pineapple.


97926. ASPYThIA GANGNITCA (L.) T. Anders. Acanthaceae.

No. 2964. Collected at the Botanic Garden, Demerara, Georgetown, British Guiana, February 24, 1932. For previous introduction and description see 97255.

97927 to 97930. CITRUS spp. Rutaceae.

97927 and 97928. CITRUS GRANDIS (L.) Osbeck. Grapefruit.

97927. No. 3682. Scions and seed collected in the Javanese village of Lelydorp, near Paramaribo, Surinam, March 4, 1932. Very large pear-shaped fruits with thick skin, pink flesh, and pink partitions.

97928. No. 3683. Collected near Lelydorp, Surinam, March 4, 1932. Scions of a red-fleshed Javanese variety which is said to be sweeter than the variety sent in under 3662 (97927).
97924 to 97941—Continued

97929. CITRUS MEDICA L. Citron.
No. 2998. Collected at Georgetown, British Guiana, February 25, 1932. Scions of a peculiarly shaped citron which turns a deep-orange color as it ripens.

97930. CITRUS GRANDIS (L.) Osbeck. Grapesfruit.

97931. CROTALARIA JLKENA L. Fabaceae.
No. 3699. Collected March 1, 1932, at the Experimental Garden, Paramaribo, Surinam. A tall-growing species with yellow flowers.

97932. FICUS SALICIFOLIA Vahl. Moraceae.
No. 3656. Collected at the Georgetown Botanic Garden, British Guiana, February 24, 1932. A remarkable form of Ficus with long linear to lanceolate leaves and small fruits not over a quarter of an inch through. The fruits are covered with chocolate spots, making them very attractive. The tree climbs over its host tree.

97933. GMELINA ASIATICA L. Verbenaceae.
No. 2969. Collected in the Botanic Garden, Georgetown, British Guiana, February 10, 1932. An immense tree from Japan. Seeds presented by M. Tozawa, director, Forest Experiment Station, Keijo, Chosen. Received March 16, 1932. For previous introduction see 97770.

97935. MARA INCONSTANS (Jacq.) Griseb. Maba inconstans.
No. 3697. Collected on Pigeon Hill, Tobago, February 20, 1932. A form with edible fruits. To be tried as a stock for broader arching branches. These combined with the rigid green leaves produce a striking effect.

For previous introduction see 97747.

No. 2806. Collected in the Botanic Garden, Grenada, Grenadine Islands, February 20, 1932. A tall handsome fir, eventually 100 feet or more high, with stout spreading or ascending branches and dark-green foliage.

For previous introduction see 97748.

Purchased in the market at Paramaribo, Surinam, March 1, 1932. For previous introduction see 97747.

97938. PETREA VOLUBILIS L. Verbenaceae.
No. 3653. Variety alba. Collected in the Botanic Garden, Georgetown, British Guiana, February 26, 1932. A woody climber native to tropical South America and the West Indies. The beautiful white flowers are borne in loose pendent sprays which hang gracefully from the slender arching branches. These combined with the rigid green leaves produce a striking effect.

For previous introduction see 97747.

97939. PLUMERIA RUBRA L. Apocynaceae. Nosegay frangipani.
No. 2904. Collected along the Lamaba Canal in British Guiana, February 26, 1932. For previous introduction and description see 97754.

97940. RANIA FORMOSA (Jacq.) Schum. Rubiaceae.
No. 2804. Collected on Pigeon Hill, Tobago, February 20, 1932. A form with narrow lanceolate and pointed leaves. For previous introduction see 97750.

97941. XYLOPA FRUTESCENS Aubl. Annonaceae.
No. 3681. Collected March 3, 1932, at Onverwacht, Surinam. A peculiar-looking tree with glaucous blue-green leaves which are narrow lanceolate and pointed. Great masses of small fruits are produced. These have an aromatic taste, but are not bitter. This may prove of value as a shade or avenue tree.

97942 to 97949.

From Japan. Seeds presented by M. Tozawa, director, Forest Experiment Station, Keijo, Chosen. Received March 16, 1932.

A tall handsome fir, eventually 100 feet or more high, with stout spreading or ascending branches and dark-green foliage.

For previous introduction see 97754.

For previous introduction and description see 97560.

A handsome tree, native to Siberia, 60 feet high of broad pyramidal habit and vigorous growth. The broadly ovate leaves, about 5 inches long, are dark green above and glaucous beneath.

For previous introduction see 97787.

97942 to 97949—Continued

A Japanese tree up to 150 feet high, with dark-gray bark and slender horizontally spreading branches. The leaves are bright yellow above and dark green beneath, and the staminate flowers are orange crimson.

For previous introduction see 90666.

A narrowly pyramidal tree 60 feet high, native to Japan and Chosen, with red-brown bloomy branchlets and compressed leaves half an inch long, with two white bands above. The pale-brown cylindrical cymes are 2 to 3 inches long.

For previous introduction see 78404.

97949. PINUS TABULARIFORMIS Carr. (P. leucoderperma Maxim.). Pinaceae. Pin.
A pine up to 75 feet high with dark-gray bark on the trunk, red on the branches, and orange or gray-yellow branchlets. The glaucescent leaves, usually two in a cluster, are stout and 3 to 4 inches long, and the ovoid cones, 2 to 4 inches long, are pale tawny yellow, changing to dark brown and persisting for several years.

For previous introduction see 90793.

97950 to 97968—Continued

97957. CROTALARIA RETUSA L. No. 2818. Collected February 10, 1932 on Grenada. A bushy species with yellow and red flowers, found growing in a very dry situation.

97958. CROTALARIA INCANA L. No. 2823. Collected in Dominica, Leeward Islands, January 30, 1932. A yellow-flowered species found along the roadside.

No. 2879. Bois charbon. Collected in the forest reserve, Trinidad, February 10, 1932. A medium-sized forest tree reaching a girth of 4 feet. The wood is blackish, and the small fruits 1 1/2 inches in diameter are green to brown outside with dark crimson. Of possible use as a stock on which to graft the better varieties of persimmons.

97960. ENTADA Polystachya (L.) DC. Mimosaceae. Trumpet creeper.
No. 2844. Collected February 20, 1932 at Tobago, Windward Islands. A strong-growing vine with dark-green pinnate leaves and rather inconspicuous flowers which are followed by interesting large papery pods 8 to 10 inches long and 2 inches or more wide. These pods break up into winged seeds that drop out from the persistent margins of the pods, leaving the margin like the rim of a picture frame.

For previous introduction see 92896.

97961. GALACTIA sp. Fabaceae.
No. 59. Collected January 18, 1932 on Beata Island, Dominican Republic. A vine found growing over a bush.

No. 2812. Collected February 10, 1932 in the Botanic Garden, Trinidad. A small tree with large palmately-veined leaves; said to have white flowers, one petal of which is streaked with mauve.
97950 to 97954—Continued

97957. BARRINGTONIA ASIATICA (L.) KURZ. Lecythidaceae.
No. 2803. Collected in the Botanic Garden on Grenada, Grenadine Islands, February 19, 1932. The West Indian cedar or Acajou. A rapidly growing tree of beautiful appearance, the wood of which is used for the cigar boxes of commerce. The wood is soft, easily worked, sweet scented, and immune from the attacks of many insects.

For previous introduction see 93541.

97956. CEDREL A ODORATA L. Meliaceae.
Cigarbox-cedar.
No. 2937. Collected in the Botanic Garden, Tobago, Windward Islands, February 13, 1932. In the Botanic Garden, Trinidad. Porcupine tree. A tree with large leaves and large curious fruits like gigantic sea-urchin. The wood is soft, easily worked, sweet scented, and immune from the attacks of many insects.

For previous introduction see 94770.

97955. CENTROLOBIUM PARAENSE Tul. Fabaceae.
No. 2844. Collected February 13, 1932, in the Botanic Garden, Trinidad. Porcupine tree. A tree with large leaves and large curious fruits like gigantic maple seeds, with wings 6 inches long and which whirl as they fall. The egg-shaped, oval portion, as large as a pullet's egg, is covered with spines like a sea-urchin.

For previous introduction see 94194.

97954. OCHROSIA sp. Apocynaceae.
No. 2845. Collected February 13, 1932, in the Botanic Garden, Port-of-Spain, Trinidad. A tree with dark-green glossy leaves and brilliant showy red fruits.

97953. ALPINIA sp. Zingiberaceae.
No. 2846. Collected February 8, 1932, on Grand Carribean Island. Found in moist forest near Grand Etang at 1,500 feet altitude. Said to be a striking plant with colored bracts and showy scarlet flowers.
97987 to 98000—Continued


A dwarf compact shrub less than 2 feet high, with small leaves having lustrous brown stipules tipped with a tuft of conspicuous hairs. The solitary yellow flowers are about 1 inch across.

97988. POTENTILLA FRUTICOSA DAVURICA (Nestl.) Seringe. Dahurian cinquefoil.

A form with rather large pubescent leaflets, glaucous beneath, and light-yellow flowers. It is considered to be a hybrid between P. fruticosa and P. fruticosa davurica.

97989. POTENTILLA FRUTICOSA PAYTIFOLIA (Fisch.) Wolf.

A dwarf form with seven elliptic-oblong glabrescent leaves and pale-yellow flowers.

98000. POTENTILLA FRUTICOSA PTERENACIA Willd. (P. prostrata Lap.). Alpine shrubby cinquefoil.

A dwarf alpine form of dense habit, with small lanceolate leaflets and bright-yellow flowers.


From China. Seeds and scions collected by Peter Liu and sent through Owen L.
PLANT MATERIAL INTRODUCED

9801 to 98009—Continued

Dawson, agricultural commissioner, Shanghai. Received March 16, 1932.

98001. Seeds collected in the village of Leeyuan, north of Langshan. A very sweet yellow chestnut with a thin skin.

98002. East mountain chestnut of Miyun. Seeds purchased in a fruit shop at Miyun, 50 miles northeast of Peking.

98003. Seeds purchased from a fruit dealer at Tangshan.

Nos. 98004 to 98009 are scions collected in the village of Heishanssu, northwest of Miyun.

98004. The white dew or early chestnut of Miyun. A chestnut which ripens early in September.

98005. The middle ripening chestnut of Miyun. This chestnut ripens about a week later than the one sent under 98004.

98006. The late chestnut of Miyun. A chestnut which ripens the middle of September.

Nos. 98007 to 98009 are scions collected in the village of Leeyuan, north of Tangshan.

98007. Middle autumn chestnut. A rather rare chestnut which ripens late in September.

98008. Second ripening chestnut. This chestnut is said to ripen about a week later than the white dew or early chestnut of Miyun (98004). It is the most commonly grown chestnut in this region.

98009. White dew or early chestnut. A chestnut which ripens early in September.

98010 to 98012.

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley. Received March 11, 1932.

98010. ALOE SCHLINKERTI Schoenl. Liliaceae.

From Griqualand West. An aloe with olive-green leaves about 8 inches long, armed on the margin with brown horny deltoid prickles. The light-yellow flowers are in dense racemes about 6 inches long, on a short peduncle.

For previous introduction see 94242.

98011. ALOE sp. Liliaceae.

98012. TARCHONANThUS MINOR Less. Asteraceae.

A strongly resin-scented shrub native to southern Africa, with oblong to obovate, entire leaves 1 to 2 inches long, and short racemes of small woolly flower heads. It is said to be a good stock feed and to be drought resistant.

For previous introduction see 94241.

98013 to 98017—Continued

98013. GOSsypium sp. No. 932.

98014. GOSsypium sp. No. 933.

98015. GOSsypium sp. No. 934.

98016. GOSsypium sp. No. 935.

98017. GOSsypium sp. No. 936.


From the Bahamas. Seeds collected by Hugh M. Matheson at the request of David Fairchild. Received March 1, 1932.

98018. GOSsypium sp. No. 937.

98019. GOSsypium sp. No. 938.

98020. GOSsypium sp. No. 939.

98021. GOSsypium sp. No. 940.

98022. GOSsypium sp. No. 941.

98023 and 98024. AMYGDALUS PERSICA L. Amygdalaceae. Peach.


A collection of local peach varieties introduced for the use of Department specialists.

98023. From a tree growing in the yard of Mr. Cramer at 4,400 feet altitude. The fragrant fruit is nearly round, well colored, and almost without bitterness. The average rainfall is 140 inches and the tree has a true resting period during the latter part of the dry season (July-September), when it is quite bare of leaves.

98024. Collected in native villages between 5,000 and 6,700 feet altitude. At the higher level frosts occur during the dry season, and the trees have a true resting period. The fruit is quite fragrant, but very bitter.

98025 to 98031.

From China. Seeds presented by G. Weidmann Groff, Lingnan University, Canton. Received March 18, 1932.


No. 34. Purchased in the Pachow market, Pachow district, Kwangtung, December 28, 1931. A large round juicy sweet orange.


No. 35. Purchased in the Pachow market December 28, 1931. A wild flat fruit, not very plentiful in the market. Said to have come from the hills.
Continued

98032 to 98044

an inch in diameter, with weak spines on the berry. Said to be indigenous to southern Chile.


No. 11. **Pelus.** A tree 20 to 30 feet high found in sandy soil at the edge of woods. The green pinnate leaves and large clusters of pale-yellow flowers make it an attractive ornamental.


For previous introduction and description see 97934.

From Chile. Seeds collected near Ancud, Chiloe Island, where it is cultivated for its edible berries.

98034. **RHAPHITHAMNUS CYANOCARPUS** (Ruiz and Pav.) Miers. Verbenaceae.

Said to be indigenous to southern Chile.

98035. **GUNNERA CHILENSIS** Lam. Haloragidaceae.


No. 22. Collected January 24, 1932, in a beach thicket. A hedge plant 5 feet high found in sandy soil. It has small glossy evergreen leaves and sharp thorns. It produces an abundance of small blue berries which make it very attractive. Horses as well as cattle eat this plant the year round and seem fond of it.

For previous introduction see 41494.

98036 to 98041

98036. **ENARGEA RADICANS** (Ruiz and Pav.) F. Muell. Liliaceae.

No. 8. Collected January 20, 1932, from low salty lands near Chiknan, Kwangchowaan, southern Kwangtung, in hedges. The stem contains an abundance of milky juice. It may prove of value for paper making.

98037. **NEETERA DEPRESSA** Banks and Soland. Rubiaceae.

No. 21. **Madrosera.** A procumbent herbaceous plant with red or orange-red berries, found growing in exposed places. Introduced as a rock-garden plant.

98038. **RIBES** sp. Grossulariaceae.

No. 11. **Pelus.** A tree 20 to 30 feet high found in sandy soil at the edge of woods. The green pinnate leaves and large clusters of pale-yellow flowers make it an attractive ornamental.


No. 18. A small ornamental tree 15 to 20 feet high, found in beach thickets. The purple fruit resembles the wild cherry.

98040. **MARGRIFICARPUS SETOSUS** Ruiz and Pav. Rosaceae.

No. 10. A shrub 10 feet high, found in low sandy places in exposed situations. The natives use it to make brooms and brushes.

98041. **RHAPHITHAMNUS CYANOCARPUS** (Bert.) Miers. Verbenaceae.

No. 20. Collected January 24, 1932, in a beach thicket. A hedge plant 5 feet high, with small glossy evergreen leaves and sharp thorns. It produces an abundance of small blue berries which make it very attractive. Horses as well as cattle eat this plant the year round and seem fond of it.

For previous introduction see 41494.

98045 to 98051

From the West Indies and British Guiana. Seeds collected by David Fairchild and F. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armour expedition. Received March 14, 1932.

98045. **ERITHHRHA SP.** Fabaceae.

No. 3700. Collected near Charlotteville, Tobago, Windward Islands, on a mountain side. A low tree with rather showy salmon-colored flowers an inch long, followed by curved pods a foot long.

98046. **HIBISCUS** sp. Malvaceae.

No. 2654. Collected February 26, 1932, near Georgetown, British Guiana. A wild species with attractive yellow flowers and pubescent leaves, found over-hanging the narrow fresh-water canal through the peat savanna near Flagstaff, on the Lamaha Conservancy.

98047. **HIBISCUS** sp. Malvaceae.

No. 3064. Collected February 26, 1932, near Georgetown, British Guiana. A wild species with attractive yellow flowers and pubescent leaves, found over-hanging the narrow fresh-water canal through the peat savanna near Flagstaff, on the Lamaha Conservancy.

98048. **HIBISCUS** sp. Malvaceae.

No. 3064. Collected February 26, 1932, near Georgetown, British Guiana. A wild species with attractive yellow flowers and pubescent leaves, found over-hanging the narrow fresh-water canal through the peat savanna near Flagstaff, on the Lamaha Conservancy.

98049. **HIBISCUS** sp. Malvaceae.

No. 3064. Collected February 26, 1932, near Georgetown, British Guiana. A wild species with attractive yellow flowers and pubescent leaves, found over-hanging the narrow fresh-water canal through the peat savanna near Flagstaff, on the Lamaha Conservancy.

98050. **HIBISCUS** sp. Malvaceae.

No. 3064. Collected February 26, 1932, near Georgetown, British Guiana. A wild species with attractive yellow flowers and pubescent leaves, found over-hanging the narrow fresh-water canal through the peat savanna near Flagstaff, on the Lamaha Conservancy.

98051. **HIBISCUS** sp. Malvaceae.

No. 3064. Collected February 26, 1932, near Georgetown, British Guiana. A wild species with attractive yellow flowers and pubescent leaves, found over-hanging the narrow fresh-water canal through the peat savanna near Flagstaff, on the Lamaha Conservancy.
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PLANT MATERIAL INTRODUCED

98045 to 98051—Continued

98047. LECYTHIS ZABUCAO Aubl. Lecy- thidaeae. Sapucaya nut. No. 2963. Collected February 15, 1932, on Trinidad. The sapucaya nut is native to the Amazon Valley and adjacent regions, and many people consider it even better flavored than the Brazil nut. The somewhat triangular nuts are over 2 inches long and about an inch wide. They are borne in large woody urn-shaped capsules about 10 inches in diameter, with close-fitting lids at the top. The tree is a slow grower and requires a long time to reach the bearing stage.

For previous introduction see 92030.


For previous introduction see 62050.

98049. PASSIFLORA MOLLISSIMA (H. B. K.) Bailey. Passifloraceae. Softleaf passionflower. No. 2995. Collected February 23, 1932, in the market at Georgetown, British Guiana. The flowers have thin ovate leaflets 3 to 6 inches long, silky pubescent beneath, and the slightly acid flesh has a delightfully pleasant flavor.

98050. QUASSIA AMARA L. Simaroubaceae. No. 2972. Collected in the Botanic Garden at Georgetown, British Guiana, February 23, 1932. A shrubby tree, native to tropical America. The opposite dark-green pinnate leaves have winged petioles and are made up of five elliptical leaflets with pink veins. The racemes of small crimson flowers are followed by oval black fruits about half an inch long.

98051. (Undetermined.) No. 2989. Collected near Georgetown, British Guiana, on the Lamaha Canal, February 26, 1932. A large-leaved tree that has triangular-shaped leaves; and the coral-red seeds, one fourth to one third black, are used for necklaces.

98052 to 98056.

From the Union of Soviet Socialist Republics. Scions presented by V. P. Alekseev, plant introducer, Sukhum Subtropical Plant Industry, with the 1931-32 Allison V. Armour expedition. Received March 15, 1932.

98052. JUGLANS REGIA L. Juglandaceae. Persian walnut. No. 2938. Collected on Pigeon Mountain, Tobago, February 20, 1932. A high-climbing woody vine, native to Florida and the West Indies. The trifoliolate leaves have thin ovate leaflets 3 to 6 inches long, silky pubescent beneath, and the yellow flowers, 2 to 3 inches broad, are borne in an umbelate cluster on a stalk about the length of the leaf petiole.

98053. No. 135177.

98054. No. 135179.

98055. No. 135180.


98057 to 98071.

From the West Indies. Seeds collected by David Fairchild and P. H. Dorsett, agricultural explorers, Bureau of Plant Industry, with the 1931-32 Allison V. Armour expedition. Received March 15, 1932.

98057. ALYSICARPUS VAGINALIS NUMMU L. Fabaceae. No. 2796. Collected February 17, 1932, at 900 feet altitude. A low creeping annual legume which forms a mat of stems and foliage not over half an inch thick. It may stage a good legume to mix with lawn grass.

For previous introduction see 67888.

98058. CROTALARIA VERRUCOSA L. Fabaceae. No. 2950. Collected on Tobago, Windward Islands, February 19, 1932. A large-leaved tree that bears greenish-yellow fruits the size of an egg, with a rather soft flexible skin. The fruit is unusually aromatic, and the slightly acid flesh has a delightfully pleasant flavor.


98060. ERYTHRINA sp. Fabaceae. No. 2972. Collected in the Botanic Garden at Georgetown, British Guiana, February 23, 1932. A shrubby tree, native to tropical America. The opposite dark-green pinnate leaves have winged petioles and are made up of five elliptical leaflets with pink veins. The racemes of small crimson flowers are followed by oval black fruits about half an inch long.


For previous introduction and description see 87905.

98062. MUCUNA sp. Fabaceae. No. 2989. Collected near Georgetown, British Guiana, on the Lamaha Canal, February 26, 1932. A large-leaved tree that bears greenish-yellow fruits the size of a large plum. The very small seeds are scattered through the slightly acid agreeable pulp.

98063. MUCUNA SLOANEI Fawc. and Ren-die. Fabaceae. Horse-eye bean. No. 2938. Collected on Pigeon Mountain, Tobago, February 20, 1932. A high-climbing woody vine, native to Florida and the West Indies. The trifoliolate leaves have thin ovate leaflets 3 to 6 inches long, silky pubescent beneath, and the yellow flowers, 2 to 3 inches broad, are borne in an umbelate cluster on a stalk about the length of the leaf petiole.


98064. No. 54. Small black beans purchased in the market. They are said to be bush beans.

98065. No. 55. A locally grown red bush bean.
98057 to 98071—Continued


No. 2816. Collected in the Botanic Garden, Grenada, Grenadine Islands, February 10, 1932. A very attractive unarmed tree 40 feet high with long slender branches and long pinnate glossy green leaves. The seeds are borne in almost circular papery pods, with a wing running all the way around the circumference.

For previous introduction see 67589.


For previous introduction and description see 97887.


For previous introduction see 79545.

98069. *Forestiera rhamnifolia* Griseb. Oleaceae. No. 2819. Collected February 10, 1932, on the driest part of Grenada. A tall shrub or small tree up to 30 feet high, native to the West Indies. The elliptical to obovate leaves are 2 to 4 inches long, and the inconspicuous flowers are followed by bright-blue ovoid fruits one half inch long, borne in axillary clusters.


98072 to 98075.

From Australia. Seeds presented by the Queensland Acclimatisation Society, Brisbane. Received March 22, 1932.


98072. Hawaiian variety.

98073. Selected seeds from the best varieties grown by the Society.

98074. Selected seeds from an improved variety grown by the Society.


For previous introduction and description see 98049.

98076 to 98086.

From France. Seeds presented by Vilmorin-Andrieux & Cie., Verrieres-le-Buisson. Received March 25, 1932.

98076 to 98082. *Cotoneaster* spp. Malacaceae.

98076. *Cotoneaster* sp. 559-A.

98077. *Cotoneaster* sp. 719 Schneider.

98078. *Cotoneaster* sp. Farrer.

98079. *Cotoneaster* sp. 2007 Hers.

98080. *Cotoneaster* sp. 2061 Hers.

98081. *Cotoneaster* sp. 2119 Hers.

98082. *Cotoneaster* sp. 4414 M. V.

98083. *Pterostyrax hispida* Sieb. and Zucc. Styracaceae. Fragrant epaulette-tree. A tree up to 50 feet high, with slender spreading branches, obovate to oblong leaves 3 to 7 inches long, and fragrant creamy white flowers in pendulous panicles. Native to China and Japan.

98084. *Stachyurus chinensis* Franch. Stachyuraceae. A shrub up to 15 feet high, native to central China. The ovate long-pointed leaves are 2 to 5 inches long and crenate-serrate on the margins. The yellow-green bell-shaped flowers appear in spring before the leaves and hang in racemes 2 to 4 inches long.

98085. *Zanthoxylum alatum planispinum* (Sieb. and Zucc.) Rehd. and Wils. Rutaceae. Prickly-ash. A Japanese shrub 7 to 13 feet high, much branched at the base, often with a short trunk. The dark-brown spreading branches, drooping a little at the tips, bear stout straight spines in pairs and evergreen pinnate leaves, dark-green above and paler beneath. The small red fleshy fruits are persistent and emit a very agreeable aromatic odor when bruised. The shrub may be used as an ornamental or as a hedge plant.

For previous introduction see 64183.


No. 7445 M. V.

98087 to 98096.

From Cuba. Material presented by Robert M. Grey, superintendent, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received March 25, 1932.

98087 to 98090. *Bougainvillea* sp. Nyfamagaceae.


98089. *Bougainvillea* sp. Harvard No. 11.
98098 and 98099—Continued
dense racemes of showy red flowers. It may be suitable for growing as an ornamental in the warmer parts of the United States.

For previous introduction see 77441.

98099. TRIFOLIUM REPENS L. Fabaceae.

White clover.

The flowers have long pedicels.

98100 to 98136.

From Japan. Plants purchased from the Yokohama Nursery Co., Yokohama. Received March 24, 1932.

98100. ABELIA GRANDIFLORA Rehder, Caprifolaceae.

Glossy abelia.

A half-evergreen shrub 3 to 6 feet high, considered to be a hybrid between A. chinensis and A. uniflora. The ovate leaves, 1 to 2 inches long, are lustrous dark green above, and the pink-flushed white flowers, 1 inch long, are borne in leafy panicles during an exceedingly long period.

98101. ABELIA SPATHELATA Sieb. and Zucc. Caprifolaceae.

A low deciduous shrub up to 4 feet high; native to Japan. The elliptic-lanceolate serrate leaves are 1 to 2 inches long, and the funnel-shaped flowers, 1 inch long, are borne in axillary pairs, white with a yellow throat.

98102 to 98133. ACER spp. Aceraceae.

Maple.

98102 to 98109. ACER PALMATUM Thunb. Japanese maple.

98102. A. capsae nishiki; leaves green with irregular yellow variegation.

98103. A. o b a - no - fuye; regularly palmate green leaves.

98104. ATRO-PURPUREUM variegatum (Toyama); deeply serrated dark-maroon leaves with white variegation.

98105. Atropurpurum (Nomura); deep-maroon, large regularly palmate leaflets.

98106. ATRO-PURPUREUM dispotecum; richly-fringed deep-maroon leaves inclined to droop.

98107. Aureum; roundish, obtusely 5-lobed yellow leaves.

98108. Dissectum; green leaves, richly fringed and inclined to droop.

98109. Hatsuyuki; broad, 5-lobed, white-margined leaves.

98110 and 98111. ACER JAPONICUM Thunb. Fullmoon maple.

98110. A shrub or small tree native to Japan. The 7- to 11-lobed cor date doubly serrate leaves, 3 to 6 inches across, are bright green in summer and turn crimson in the autumn. The purple flowers are borne in long-stalked nodding coryms and are followed by winged fruits spreading nearly horizontally.

98111. PULICIFOLIUM. A form with leaves divided nearly to the base into 9 to 11 pinnatifid lobes.
9812. Acer nikose (Miquel) Maxim.

For previous introduction and description see 97504.


98134. A variety with double pink flowers.

98135. A variety with double red flowers.


A native wild form in Japan, differing in having a 5-lobed corolla. R. metternichii is an evergreen shrub up to 4 feet high with oblong leaves 3 to 6 inches long covered with rusty tomentum beneath. The campanulate, rose-colored, usually 7-lobed flowers are 1 to 2 inches across, spotted within with purple and are borne in clusters of 8 to 15.

98137. Schefflera actinophylla (Endl.) Harms. Araliaceae.

From Australia. Seeds presented by J. A. Hamilton, Carbeen, via Cairns, Queensland. Received March 23, 1932. A handsome evergreen tree up to 40 feet high, native to Queensland, with compound leaves made up of 6 to 16 leathery oblong leaflets a foot long. The racemes, several feet long, of fragrant flowers are followed by small heads of angled dry fruits. This is a very good honey tree and does best in moist situations.

For previous introduction see 79145.


From the Union of Soviet Socialist Republics. Seeds presented by Maj. C. R. Ollberg, Tiflis, Transcaucasia. Received March 21, 1932. A cucumber cultivated along the southern coast of the Caspian Sea, adjacent to Persia. It is 8 to 12 inches long and over 2 inches in diameter, with a smooth medium-green skin; the flesh is crisp and tender, of an indescribable flavor, and is eaten like an apple without any preliminary preparation except peeling.

98139 to 98161.


For previous introduction and description see 95565.


A name for which a place of publication and a description have not been found.


A shrub up to 10 feet high, native to the eastern part of the United States from Pennsylvania to Alabama. The elliptic-ovate leaves, 2 to 6 inches long, are glaucous beneath and the green-purple to red-brown flowers are 1 to 2 inches across.

86139 to 86161—Continued

98143. Bailonia juncea (Gill. and Hook.) Briquet (Diostea juncea Miers). Verbenaceae.
A shrub or small tree up to 20 feet high, native to Chilie and Peru. The rushlike branches have distant pairs of small oval dentate leaves, and the small pale-lilac flowers are borne in dense lateral and terminal spikes 1 to 2 inches long. The plant resembles Sparrti um junceum in habit.

A woody vine, native to China, with ovate-cordate papyre leaves, 2 to 6 inches long, smooth above and densely tomentose beneath. The white or pink milkweedlike flowers are half an inch long and are borne in ample cymes.

98145. Forsythia intermedia densiflora Koehne. Oleaceae.
A form with spreading and pendulous branches, much crowded, flat, rather pale flowers with slightly recurved lobes.

98146 to 98148. Lavandula spica L. Menthaeae. Lavender.

98147. Miss Duddington. A charming variety with blue flowers.

98148. Munstead blue. An early flowering plant of bushy habit that produces many spikes of blue flowers.

98149. Twickel purple. A plant with fine bold foliage and good heads of deep-purple flowers.


98150. Lonicera muendeniensis Rehder.
Considered to be a hybrid between Lonicera bella and L. ruprechtiana, closely resembling L. bella, but differing in having more acuminate and darker green leaves.


98151. Lonicera trichopoda Franch.
A low slender-branched shrub 3 to 5 feet high, native to Yunnan, China. The oblong-ovate pubescent leaves are 1 to 2 inches long, and the creamy white flowers, tinged with pink, are borne in axillary pairs and are followed by bright-red berries.

98152. Lonicera sp.

98153. Pertea sinensis Oliver. Asteraeae.
A slender upright shrub 6 feet high, native to central China. The ovate to lanceolate entire leaves are 2 to 3 inches long, and the pinkish bell-shaped flower heads are solitary on slender pedicels.


98154. For previous introduction and description see 97617.

98155. Ribifolia. A form with the leaves deeply lobed.


98156. A round-headed tree 20 to 40 feet high. The young branchlets are pubescent, becoming gray-brown with age. The leaves, 9 to 15 inches long, are composed of 11 to 13 oblong-lanceolate serrate leaflets entire towards the base, dull green above and pubescent beneath or rarely glabrous. The small white flowers are in flat corymbs 4 to 6 inches broad and are followed by bright-red globose fruits one third of an inch in diameter.


98159. Ruscus aculeatus L. Convallariaceae.
Hermoderitis. Said to be a form with perfect flowers, all of which bear fruits freely each year.

An evergreen subshrub with prostrate leafy branches and ascending flowering shoots. The ovate leaves are 1 to 3 inches long, and the pale-lilac flowers, an inch across, are solitary in the upper axils. It is native to southern Europe and northern Africa.

For previous introduction see 92762.


98162 to 98164.
From Australia. Seeds presented by F. H. Baker, Richmond, Victoria. Received March 17, 1932.


An evergreen shrub up to 12 feet high, with lanceolate leaves 1 to 3 inches long, reddish when young, and spikes, 2 to 4 inches long, of small flowers with long bright-red stamens. Native to southeastern Australia.

For previous introduction see 93832.

A tall Australian shrub up to 30 feet high, remarkable for its showy crimson flowers. These are in globular heads about 2 inches in diameter, from which numerous golden styles protrude an inch or so in all directions.

For previous introduction see 95322.

98164. Kennedia monophylla Vent. Fabaceae.

An Australian vine with single lanceolate leaves and terminal panicles and axillary racemes of pea-shaped flowers ranging from white through rose to purple.

For previous introduction see 77979.
From Cuba. Plants presented by Robert M. Grey, superintendent, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received March 28, 1932.
A beautiful and rare native palm with a straight smooth stem sometimes reaching a height of 50 feet. The pinnate leaves are 8 to 12 feet long.
For previous introduction see 90869.

From the Republic of Panama. Seeds presented by H. S. Blair, Puerto Armuelles, Province de Chiriqui. Received March 17, 1932.
A large tree up to 75 feet high, native to Central America. The elliptic-ovate coriaceous leaves, 4 to 10 inches long, are green above and golden-brown beneath. The globose receptacles bear one staminate and one pistillate flower, the latter developing into a fleshy yellow 1-seeded fruit. When incisions are made in the bark a milky liquid flows out which is said to be nourishing.

98167 to 98194.
From Tunisia. Scions and seeds presented by the chief of the agricultural service, Tunis, at the request of Professor Bloiatti and Prof. R. W. Hodgson. Received March 30, 1932.

98167. CERATONIA SILIQUA L. Caesalpinaceae. Carob.
Scions of a hermaphroditic carob tree from Sfax.

Scions of indigenous varieties of apples.

98168. Bou Tubgaia from Tabarka.
98169 to 98172. From Sfax. No. Cc 1.

98173. An unnamed variety from Tunis.

98174 to 98176. PISTACIA spp. Anacardiaceae. Pistachio.

98174. PISTACIA TEREBINTHUS L. False terebinth.
Scions of a locally grown variety.

98175 and 98176. PISTACIA VERA L. Pistachio.
98175. Scions from a pistillate tree.
98176. Scions from a staminate tree.

98177. PEKNUS ARMENIACA L. Amygdalaceae. Apricot.
Amor-Leuch; scions from Sfax.

98178. PYRUS sp. Malaceae. Pear.
Scions of a native pear from the estate of M. Comte, at Sidi Bou Ali.

98179 to 98183. VITIS VINIFERA L. Vitaceae. European grape.
Scions collected at the School of Agriculture in Tunis.

98185 to 98194—Continued

98179. Baioudi Khchin.
98180. Basepin bianco.
98181. Beldi.
98182. Chaouch rose.
98183. Sekenli.
98184. Hami, a thick-skinned type.
98185. Hami, a tough-skinned type.
98186. Kaali (Kahli).
98187. Marsiliane.
98188. Medina.
98189. Muscat de Panteiliana.
98190. Olivette bianche.
98191. Antigua.
98192. Arricha.
98193. Vedifiren.

98194. ZIZIPHUS JUJUBA MILL. Rhamnaceae. Common jujube.
Scions of a locally grown variety.

98195. PYRUS SALICIFOLIA Pall. Malaceae. Willow-leaved pear.
From the Union of Soviet Socialist Republics. Seeds presented by V. P. Alexeev, plant introducer, Sukhum Subtropical Branch of the All-Union Institute of Plant Industry, Sukhum, Caucasus. Received March 24, 1932.
No. 135191. From Azerbaidjan, Divichinskii District, village of Bilidji. Collected by Rubtjor on an Asiatic expedition for the Institute of Plant Industry. A round-headed tree 20 to 25 feet high, with a short stout trunk and beautiful willow-like grayish to silvery leaves, 1 to 3 inches long, scarcely more than half an inch wide. The dense coryza of white flowers are borne freely in April.
For previous introduction see 51885.

98196. SPINACIA OLEACEA L. Chenopodiaceae. Spinach.
From Africa. Seeds presented by Moses Albert Azancot, Tangier, Morocco. Received March 24, 1932.
A variety of spinach appreciated for its large size.

98197 to 98199.
From Scotland. Seeds presented by William Robb, director of research, Scottish Society for Research in Plant Breeding, Corstorphine, Midlothian. Received March 25, 1932.
A collection of forage grasses introduced for the use of Department specialists.

98197. DACTYLIIS GLOMERATA L. Poaceae. Orchard grass.
No. Cc 1.

98198. LOLFUM PERENNE L. Poaceae. Perennial rye-grass.
No. Ca 1.

98199. PHLEUM PRATENSE L. Poaceae. Timothy.
No. Cb 1.
From the Union of Soviet Socialist Republics. Seeds presented by M. P. Petrov, director, Repetek Sand Desert Station (Turkmenistan), Sand Desert Karakum, through the Institute of Plant Industry, Leningrad. Received March 21, 1932. These seeds have been introduced as of possible value in experiments being carried on in the arid regions of the southwestern United States.

**Plant Material Introduced**

**98200 to 98219**—Continued


- For previous introduction see 92959.

- AGROPYRON ORIENTALE LASIANTHUM Bolles. Poaceae. Wheat-grass. No. 134856. An annual grass, thickly branched at the base, with numerous mostly prostrate stems scarcely 8 inches high. Native to Asia Minor and northern Africa. For previous introduction see 64092.

- AMMODENDRON CONOLOGYI Bunge. Fabaceae. No. 134846. An evergreen silky leaved Siberian shrub, used as a sand binder. For previous introduction see 94923.

- ABISTIDA PENNATA KARELINI Trin. Poaceae. No. 134847. A perennial grass of possible value as a forage crop. For previous introduction see 94924.

- ARISTIDA PENNATA MINOR. Litv. Poaceae. No. 134848. A perennial grass of possible value as a forage crop. For previous introduction see 94925.

- ATRIPLEX DIMORPHOSTEGIA Kar. and Kir. Chenopodiaceae. No. 134852. An annual 18 inches high with alternate membraneous ovate leaves and terminal or axillary inconspicuous flowers. Native to dry regions in Arabia and Persia.

- For previous introduction see 92965.

- BROMUS TECTORUM L. Poaceae. No. 134855. An annual grass, thickly branched at the base, with numerous mostly prostrate stems scarcely 8 inches high. Native to Asia Minor and northern Africa. For previous introduction see 64092.

- CALLIGONUM CAPUT-MEDUSA Schrenk. No. 134841. A leafless shrub with dichotomous branches, small reddish flowers in the axils of the sheaths, and nutlike fruits covered with filamentous reddish spines. Possibly of value as an ornamental in desert regions and as a sand binder. It is native to western Asia. For previous introduction see 94928.

- CALLIGONUM COMOSUM L'Her. No. 134839. A densely branched shrub 10 to 18 feet high, with minute subulate leaves and small ovate, densely spiny, nutlike fruits. Native to the eastern Mediterranean region. For previous introduction see 94930.

- CALLIGONUM SETOSUM Litv. No. 134840. A leafless shrub much like C. caput-medusae, but the filaments on the fruits are brownish and are longer and more slender. It is native to the Caspian region. For previous introduction see 92974.

- CAREX PHYSODES Bleb. Cyperaceae. No. 134837. A perennial sedge usually about 6 inches high, rarely more, native to sandy deserts of Turkistan, with filiform leaves and panicles of brownish globose membranous perigynia or sacs half an inch across. For previous introduction see 94933.

- CONVOLVULUS DIVARIATUS Regel and Schmal. Convolvulaceae. No. 134842. A densely hairy, erect or ascending plant, with small ovate acute sessile leaves two fifths of an inch long and very small terminal or axillary flowers. Native to sandy places near Khiva, central Asia. For previous introduction see 92976.

- Ephedra alata Decaisne. Gnetaceae. No. 134851. A tall, freely-branching shrub with rough green equisetumlike branches, small scallike leaves, and inconspicuous flowers. Native to Arabia and northern Africa. Of value as a possible source of ephedrine. For previous introduction see 94934.

- EREMOSPARTON FLACCIDUM Schrenk. No. 134850. A bushy tree about 15 feet high, native to sandy places in the trans-Caspian region. The branchlets are threadlike and limp, and the small flowers are dark violet. For previous introduction see 94935.

- ERMOZAPHRON PLACCIDUM Litv. Fabaceae. No. 134849. A low hairy herbaceous perennial with numerous small triangular pinnately cut leaves and inconspicuous flowers in compound umbels. Native to the trans-Caspian region. For previous introduction see 92983.

- PÆRULA LITWINOWIANA K.-Pol. Apiaceae. No. 134843. A small, hairy, herbaceous perennial with numerous small triangular pinnately cut leaves and inconspicuous flowers in compound umbels. Native to the trans-Caspian region. For previous introduction see 92983.

- HALOXYLON AMMODENDRON (Meyer) Bunge. Chenopodiaceae. No. 134838. A shrub or tree up to 20 feet high, native to Turkistan. It has a gnarled trunk, light-green branchlets which are leafless, and small fruits with thin papery suborbicular wings. For previous introduction see 92964.

- KOCHIA STELLARIS Moq. Chenopodiaceae. No. 134853. An erect annual plant from the Desert of Karakum, Turkistan, a foot or less high, much branched, with flat linear leaves and very small greenish flowers.
98220 to 98229—Continued

98227. NAGELA THUNBERGII (Hook.) F. M.uell. (Podocarpus thunbergii Hook.). TaxACEAE.
A fine evergreen timber tree, up to 100 feet tall and with a trunk 4 feet in diameter, which occurs throughout all the timber forests from Cape of Good Hope to Natal. The quality of the wood of this species is very similar to that of Nagela elongata, and for most purposes they are used interchangeably.

For previous introduction see 56196.

98228. PALLASIA CAPENSIS Christm. (Calodendrum capensis Thunb.). Rutaceae.
A large and handsome tree with spreading branches in pairs or in threes. The branches of the evergreen opposite leaves are 3 to 4 inches long. The white flowers, with linear-oblong reflexed petals 1 to 2 inches long, are in terminal panicles, and the shining black seeds, the size of hazelnuts, are borne in hard thick capsules. It is native to southern Africa.

For previous introduction see 80667.

98229. SPARNANNIA AFRICANA L. f. TIliaeCEAE.
A handsome flowering shrub up to 12 feet or more high, with heart-shaped obscurely 5- to 7-lobed leaves about 5 inches long. The handsome white flowers, over an inch across, which appear in May are borne in small umbels in such profusion that this is considered one of the finest white-flowered plants in existence. It is native to southern Africa.

98230 to 98255.

From Leningrad, Union of Soviet Socialist Republics. Seeds presented by V. P. Alekseev, Division of New Cultures and Foreign Plant Introduction of the All-Union Institute of Plant Industry. Received May 21, 1932.
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