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Plant Inventory No. 140



UNITED STATES DEPARTMENT OF AGRICULTURE
Washington, D. C. July 1950

PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY,¹ JULY 1 TO SEPTEMBER 30, 1939 (Nos. 133382 to 134283)

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This inventory, No. 140, lists plant material (Nos. 133382 to 134283) received by the Division of Plant Exploration and Introduction during the period from July 1 to September 30, 1939. It is a historical record of plant material introduced for Department and other specialists, and is not to be considered as a list of plant material for distribution.

PAUL G. RUSSELL,
Botanist.

*Plant Industry Station,
Beltsville, Md.*

INVENTORY

133382 to 133385. *MUSA* spp. Musaceae. **Banana.**

From Cuba. Plants presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received July 1, 1939.

133382 to 133384. *MUSA PARADISIACA* L. **Plantain.**

133382. *Burro*. A short stubby fruit, coarse in flesh and inferior in quality to both the *Macho* and *Hembra* varieties.

133383. *Hembra*. This plantain resembles the *Macho* variety, but is somewhat smaller and is inferior in quality. The flesh is said to be harder.

133384. *Macho*. This is the largest and best of the plantains, or cooking bananas, and is the standard variety of commerce. The fruits are from 9 to 12 inches long.

133385. *MUSA PARADISIACA* var. *SAPIENTUM* (L.) Kuntze.

Morado. A short, thick fruit with a thinnish red skin. It is best baked when it becomes dry and mealy.

¹ Now Bureau of Plant Industry, Soils, and Agricultural Engineering, Agricultural Research Administration, United States Department of Agriculture.

133386 to 133389. SOLANUM spp. Solanaceae.

From Peru. Tubers presented by Victor Marie, Superintendent, Estación Experimental Agrícola de la Molina, Lima. Received July 5, 1939.

A collection of wild potatoes.

133386. SOLANUM MEDIANS Bitter.

Nightshade.

A potato-like species which grows wild on the coast region of Peru and is exceedingly productive. The tubers are commonly 1 to 2 inches long and 1 inch in diameter, and the flesh is white and crisp but is not considered good to eat. Of interest to potato breeders.

For previous introduction see 62691.

133387. SOLANUM NEOWEBERBAUERI Wittm.

From Morro Solar, near Cherrillos. A rare wild potato native to the dry coastal region in the environs of Lima and Callao, growing always in stony situations and depending on fog for its water supply. There are several tubers, about $\frac{1}{2}$ inch in diameter, on each plant. The plant belongs to a series of which *Solanum maglia* is the most common.

For previous introduction see 99075.

133388 and 133389. SOLANUM WITTMACKII Bitter.

A rare wild potato.

For previous introduction see 99109.

133388. From the pampa of Amancaes, near Lima.

133389. The same species after being cultivated for 3 years by the Section of Botany.

133390. MELOCACTUS GUITARTI León. **Cactaceae.**

From Cuba. Seeds presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received July 1, 1939.

A globose, depressed cactus; when mature, about 4 inches high and 6 inches in diameter, having about 12 prominent ribs, areoles 1 inch apart with 9 or 10 yellowish rigid radical spines 1 inch long and 2 central spines over an inch long. The rosy flowers, about $1\frac{1}{2}$ inches long, are borne on a cephalium about 3 inches in diameter and are followed by red berries. Allied to *Melocactus caesius* and native to Cuba.

133391 to 133393.

From Africa. Seeds purchased from the Mount Elgon Nurseries, Kitale, Kenya Colony. Received July 5, 1939.

133391. CANARINA EMINII Aschers. **Campanulaceae.**

A tuberous-rooted, creeping perennial up to 6 feet long, with showy, bell-shaped, orange-scarlet flowers 3 inches long. Native to tropical Africa.

For previous introduction see 127053.

133392. GLORIOSA VIRESCENS Lindl. **Melanthiaceae.**

Glorylily.

A vinelike perennial which supports itself by the tendril-bearing tips of the oblong-lanceolate leaves, 3 to 6 inches long. The yellow and red flowers, 3 inches across, borne in a lax terminal corymb, are reflexed and slightly undulate. Native to tropical Africa.

For previous introduction see 132703.

133393. CYPELLA HERBERTII Herb. **Iridaceae.**

A plant with a bulbous base and linear leaves about 1 foot long. The erect branched stalk, 2 to 3 feet high, bears 5 or 6 flowers, each about 3 inches across; the petals are orange red with green markings at the base. Native to southern Brazil, Uruguay, and northern Argentina.

For previous introduction see 127786.

133394 to 133412.

From South Africa. Seeds presented by the Director, National Botanic Gardens of South Africa, Kirstenbosch, Newlands. Received July 5, 1939.

133394 to 133410. *LACHENALIA* spp. Liliaceae.

133394. *LACHENALIA BACHMANNI* Baker.

A lachenalia with usually 2 linear, canaliculate leaves 4 to 8 inches long and a dense subspicate raceme of campanulate flowers $\frac{1}{4}$ inch long, the oblong segments white with a red keel.

133395. *LACHENALIA CONTAMINATA* Ait.

A species with 6 to 10 erect channeled leaves 9 inches long, becoming terete along the distal half, and a dense raceme of campanulate white flowers each up to $\frac{1}{4}$ inch long, the inner segments tipped greenish brown and the outer ones often flushed red and shorter.

133396. *LACHENALIA GILLETII* Baker.

A lachenalia with 2 bright-green erect or spreading, obtuse leaves $2\frac{1}{8}$ inches or longer and a spike of many small, white, purple-tipped flowers having exserted stamens.

133397. *LACHENALIA GLAUCINA* Jacq.

A species with usually 2 lorate, smooth, often spotted leaves and a rather dense spike of erect white, red, yellow, or blue-tinged flowers, $\frac{1}{2}$ to $\frac{3}{4}$ inch long.

133398. *LACHENALIA JUNCIFOLIA* Baker.

A lachenalia with usually 2 subterete, smooth leaves 4 to 8 inches long, and a raceme of 6 to 12 flowers, white tinged with red, about 1 inch long.

133399. *LACHENALIA MATHEWSII* Baker.

A plant with 2 erect leaves, attenuate at tips, 4 to 7 inches long, and a few small yellow flowers in a raceme.

133400. *LACHENALIA MEDIANA* Jacq.

A species with 2 linear-lanceolate to oblong, smooth erect leaves 1 foot long or more, and a lax raceme of greenish-white tubular flowers each up to $\frac{1}{3}$ inch long, the outer segments oblong with a pale-blue basal blotch, the inner with a small reddish apical blotch.

133401. *LACHENALIA* sp.

Introduced with the specific name "membranacea," for which a place of valid publication has not been found.

133402. *LACHENALIA MUTABILIS* Sweet.

A lachenalia, variable in height, but often becoming 1 foot high, with a showy spike of 50 or more flowers; the corolla is $\frac{1}{2}$ inch long and the outer segments are bright blue, later changing to yellow, while the inner segments are green with darker green dots. It is allied to *Lachenalia orchitoides*.

133403. *LACHENALIA ORTHOPETALA* Jacq.

A species with 4 or 5 erect, linear, subulate leaves 4 to 6 inches long, channeled down the face, and a dense spikelike raceme 1 to 4 inches long of many whitish or red-tinged flowers about $\frac{1}{2}$ inch long.

133404. *LACHENALIA PALLIDA* Ait.

A lachenalia with 2 strap-shaped, pustulate or blistered leaves and a peduncle 6 inches long bearing a moderately dense raceme of white flowers; these are $\frac{1}{4}$ inch long, the outer segments tipped green and shorter than the inner.

133405. *LACHENALIA* sp.

Introduced under the specific name "pillansii," for which a place of valid publication has not been found.

133394 to 133412—Continued**133406. LACHENALIA REFLEXA** Thunb.

A plant with 2 falcate thin lanceolate leaves 4 to 6 inches long, clasping the base of the stem for 1 to 2 inches, and a spike 2 to 6 inches high of erect-spreading, yellowish, few, rarely many flowers 1 inch long.

133407. LACHENALIA ROODEAE Phillips.

A lachenalia with 2 spreading, ovate-lanceolate leaves 3 inches or longer and a dense spike of many purplish, campanulate flowers.

133408. LACHENALIA sp.

Introduced under the specific name "suaveolens," for which a place of valid publication has not been found.

133409. LACHENALIA UNICOLOR Jacq.

A perennial with, usually, strap-shaped leaves 6 inches long and 1 inch broad and a stiffly erect peduncle 6 inches high bearing a dense raceme 2 to 4 inches long of bell-shaped, bright-red flowers $\frac{1}{4}$ inch long.

For previous introduction see 93539.

133410. LACHENALIA UNIFOLIA Jacq.

A lachenalia usually having a single linear leaf clasping the base of the stem for 2 or 3 inches. The bell-shaped white flowers, tinged with red or blue, are $\frac{1}{2}$ inch long and are borne in a lax raceme on a peduncle 1 foot high.

133411. LITTONIA MODESTA Hook. f. Melanthiaceae.

A tuberous-rooted climbing vine resembling Gloriosa.

For previous introduction see 31849.

133412. BOWIEA VOLUBILIS Hook. f. Liliaceae.

An asparaguslike perennial with a globose bulb 4 to 6 inches in diameter, small erect linear leaves, and a slender twining stem 6 to 8 feet long. The numerous small greenish flowers are less than $\frac{1}{2}$ inch long. Native to southern Africa.

For previous introduction see 127060.

133413 to 133415.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered in July 1939.

133413. AGASTACHE CANA (Hook.) Wooton and Standl. Menthaceae.

Bell No. 31858. Collected in Hillsboro Canyon, Ariz., in 1937 by L. N. Goodding, of the Soil Conservation Service.

For previous introduction see 116854.

133414. AGASTACHE BARBERI (Robinson) Epling.

Bell No. 31857. Collected in Sycamore Canyon, Ariz., November 15, 1937, by L. N. Goodding, of the Soil Conservation Service. A herbaceous perennial with slender, simple stems about 2 feet high, ovate-lanceolate, crenate leaves, 1 to 2 inches long, and small deep-crimson flowers in a long narrow panicle. Native to northwestern Mexico and the southwestern United States.

133415. LOBELIA CARDINALIS ssp. *GRAMINEA* (Lam.) McVaugh. Campanulaceae.

Bell No. 32057. Collected at Ropes Springs, N. Mex., in 1937 by L. N. Goodding, of the Soil Conservation Service. A perennial lobelia with several distinct geographical varieties; native from the western United States to Central America.

133416 to 133426.

From Brazil. Plants presented by the Jardim Botânico, Rio de Janeiro. Received July 12, 1939.

133416. BRUNFELSIA GRANDIFLORA D. Don. Solanaceae.

133416 to 133426—Continued

133417. *CAESALPINA ECHINATA* Lam. *Caesalpiaceae*.

A tall tree native to the coastal forests of Brazil. The wood is used for dye and for violin bows.

133418. *CAMELLIA JAPONICA* L. (*Thea japonica* Baill.). *Theaceae*.

Common camellia.

For previous introduction see 105704.

133419. *SYAGRUS WEDDELIANA* (Wendl.) Beccari (*Cocos weddelliana* Wendl.). *Phoenicaceae*.

A palm with a slender trunk up to 7 feet high and gracefully drooping pinnate leaves nearly reaching the ground. The leaves, about 3 feet long, have numerous linear equidistant pinnae. Native to tropical Brazil.

133420. *GUILIELMA GASIPAES* (H. B. K.) Bailey (*G. speciosa* Mart.). *Phoenicaceae*.
Pupunha.

A palm, native to the Amazon region, where it becomes 60 feet high, and, like the pejibaye (*Guiljelma utilis*), to which it is closely allied, the freely produced fruits are an important food in regions where it is indigenous.

For previous introduction see 93758.

133421. *JASMINUM PUBESCENS* (Retz) Willd. *Oleaceae*. Slender jasmine.

A climbing or scrambling shrub with narrow-ovate leaves, bright green above and pubescent beneath, and fragrant white flowers, 1 inch across, in large dense hanging heads.

For previous introduction see 132878.

133422. *LOPHANTHERA LACTESCENS* Ducke. *Malpighiaceae*.

133423. *MALPIGHIA COCCIGERA* L. *Malpighiaceae*.

A shrub about 3 feet high, with small, sinuate-dentate, oval to orbicular leaves, shining above, and small pink flowers followed by edible red drupes. Native to the West Indies.

133424. *MALVAISCUS MOLLIS* (Ait.) DC. *Malvaceae*.

A low shrub with obscurely lobed, toothed or wavy-margined leaves, velvety-pubescent beneath, and showy red flowers. Native to tropical America from Mexico to Colombia.

133425. *PETREA RACEMOSA* Nees and Mart. *Verbenaceae*.

A tender woody twiner with entire, cuspidate, oblong leaves 2 or 3 inches long and long racemes of showy blue flowers. Native to Brazil.

133426. *RHODODENDRON INDICUM* (L.) Sweet. *Ericaceae*. Indica azalea.

133427. *CALYPTRONOMA RIVALIS* (O. F. Cook.) Bailey. *Phoenicaceae*.
Palm.

From Puerto Rico. Seeds presented by W. K. Bailey, Agricultural Experiment Station, Mayaguez. Received July 1, 1939.

A stout erect palm up to 25 feet high, with large leaves of numerous gracefully drooping pinnae and the spadix usually more than 3 feet long. Native to Puerto Rico where it is known only near San Sebastian, Aguadilla.

133428. *OMANTHE COSTARICANA* (Oerst.) O. F. Cook. *Phoenicaceae*.
Palm.

From Costa Rica. Seeds presented by the Goodyear Rubber Co., San José. Received July 5, 1939.

An attractive, small-tufted palm, sometimes 8 to 10 feet high, with striking clusters of bright-green leaves. The pinnae, 17 to 20 on a side, are similar to those of *Neanthe bella*. Native to Costa Rica.

For previous introduction see 132873.

133429 to 133434.

From Brazil. Seeds presented by the Departamento de Industria Animal, Seção de produção Animal, Serviço de Agrostologia, Rio de Janeiro, through O. W. Herrmann, Farm Credit Administration. Received July 7, 1939.

133429. DESMODIUM DISCOLOR Vogel. Fabaceae.

Marmelada de cavallo. A shrubby erect hairy plant from southern Brazil, with oval membranous leaflets and large panicles of light-blue flowers. Cultivated in Brazil for forage and silage, being cut while young, as it becomes woody with age.

For previous introduction see 89213.

133430. HYPARRHENIA RUFA (Nees) Stapf. Poaceae.

Capim Jaraguá.

For previous introduction see 123699.

133431. MELINIS MINUTIFLORA Beauv. Poaceae.

Molasses grass.

Capim catingueiro.

For previous introduction see 132806.

133432. PANICUM MAXIMUM Jacq. Poaceae.

Guinea grass.

Capim sempre verde.

For previous introduction see 117954.

133433. PASPALUM NOTATUM Fluegge. Poaceae.

Bahia grass.

Gramma de Batatais. A perennial tropical American grass, good for forage and for erosion control.

For previous introduction see 121415.

133434. PENNISETUM PURPUREUM Schumach. Poaceae.

Napier grass.

Capim elefante. An excellent fodder grass.

For previous introduction see 132809.

133435 to 133438. AVENA SATIVA L. Poaceae.

Oats.

From Latvia. Seeds presented by the Priekuli un Stende Experimental Farms, through the Latvian Legation, Washington, D. C. Received July 13, 1939.

133435. Baltas (white).

133436. Dzintara (amber).

133437. Mazas Agras (small, early).

133438. Vainaga (crown).

133439 and 133440.

From Hawaii. Seeds presented by L. W. Bryan, Division of Agriculture and Forestry, Hilo. Received June 24, 1939. Numbered in July 1939.

133439. STYPHELIA TAMEIAMEIAE (Cham.) Muell. Epacridaceae.

Pukeawe. An evergreen shrub or small tree with stiff linear or oblong leaves about $\frac{1}{2}$ inch long and small whitish flowers followed by white to red berries about $\frac{1}{4}$ inch in diameter. Native to the Hawaiian Islands at altitudes up to 6,000 feet.

133440. MYOPORUM SANDWICENSE (A. DC.) A. Gray. Myoporaceae.

Nao. A tree 20 to 30 feet high, sometimes a shrub, with alternate oblong leaves up to 6 inches long crowded toward the ends of the branches and clusters of small white flowers. The heartwood becomes very fragrant when dried, with an odor resembling that of sandalwood.

For previous introduction see 68157.

133441. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

From Brazil. Seeds presented by John H. Wheelock, Pasadena, Calif., obtained from the Lavras Agricultural School, Lavras, Minas Geraes. Received July 12, 1939.

Red peanuts, obtained from a native family near Lavras.

133442 to 133446.

From Africa. Seeds presented by the Mount Elgon Nurseries, Kitale, Kenya Colony, at the request of Maj. F. Chater Jack. Received July 12, 1939.

133442. BAUHINIA FASSOGLENSIS Kotschy. Caesalpiniaceae.

A scandent shrub with large, suborbicular, leathery leaves, the leaflets connate, and numerous large yellow flowers in rather lax racemes. Native to tropical Africa.

For previous introduction see 113837.

133443. CRAIBIA BROWNII Dunn. Fabaceae.**133444. LOBELIA ABERDARICA R. E. Fries and T. C. E. Fries. Campanulaceae.****133445. LOBELIA sp. Campanulaceae.****133446. PENTAS LONGIFLORA Oliver. Rubiaceae.****133447. MUSCARI HELDREICHII Boiss. Liliaceae. Grape-hyacinth.**

From Rumania. Seeds presented by the Botanic Garden, Cluj. Received May 31, 1932. Numbered in July 1939.

An early flowering bulbous perennial, native to Greece, with linear leaves and elongated heads of amethyst flowers on scapes 4 to 6 inches high.

For previous introduction see 76351.

133448. MUSSAENDA FRONDOSA L. Rubiaceae.

From Fiji. Seeds presented by the Director of Agriculture, Colony of Fiji, through David Fairchild. Received in June 1939. Numbered in July 1939.

Collected May 24, 1939, at Waidina, Fiji. A low erect shrub with oblong to ovate leaves and terminal cymes of yellow flowers with enlarged white calyx lobes. Native to India at altitudes up to 4,000 feet.

For previous introduction see 17708.

133449 and 133450. CITROPSIS spp. Rutaceae.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered in July 1939.

133449. CITROPSIS GILLETIANA Swingle and M. Kellerman.

Received about 1913 as seeds from Brother Gillete, of the Botanic Garden at Kisantu, Belgian Congo.

A spiny tree up to 30 feet high, with large leathery 3- to 5-foliolate leaves and numerous white flowers in axillary racemes, followed by globular, lemon-colored fruits about 1 inch in diameter. It is considered an important disease-resistant rootstock for cultivated citrus fruits. Native to the Belgian Congo.

133450. CITROPSIS SCHWEINFURTHII (Engler) Swingle and M. Kellerman.

C. P. B. 2902. Trees grown from seeds received from Uganda, British East Africa. A spiny shrub or small tree with 3- to 5-foliolate leaves and large white flowers in small axillary clusters. The orangeliike fruits are about 1 inch in diameter. Native to tropical Africa.

For previous introduction see 109621.

133451. HIPPEASTRUM CANDIDUM Stapf. Amaryllidaceae.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered July 15, 1939.

Originally collected at Port-au-Prince, Haiti, by the Allison V. Armour Expedition to the West Indies, and received May 4, 1933. A hippeastrum with narrow strap-shaped leaves about 1 foot long and a scape 2 feet high, having an umbel of 6 slightly sweet-scented flowers. The slender greenish perianth tube is about 4 inches long. The outer segments, 4 to 5 inches long with crisped margins, are oblanceolate, pure white, except the base, which is slightly suffused with green. The inner segments are similar but narrower. Native to Argentina.

133452 and 133453.

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered in July 1939.

133452. ARDISIA HUMILIS Vahl. Myrsinaceae.

Plants grown from seeds sent from the Experiment Station, Eala, Belgian Congo, in January 1929. A bushy evergreen shrub 7 feet high, with thick elliptic leaves up to 4 inches long and abundant fruits ripening in the autumn and suggesting black shoe buttons.

133453. BROSIMUM ALICASTRUM Swartz. Moraceae.

Plants grown from seeds collected at Petén, Guatemala, by O. F. Cook, of the Bureau of Plant Industry. A large tropical American tree with shining green, narrowly elliptic leaves, and round, orange-yellow, 1-seeded fruits about 1 inch in diameter. The fresh and fallen leaves are greedily eaten by cattle, as are also the starchy seeds.

For previous introduction see 66694.

133454 to 133456. ORYZA SATIVA L. Poaceae.**Rice.**

From the Federated Malay States. Seeds presented by the Director, Department of Agriculture, Kuala Lumpur. Received July 18, 1939.

A collection of dry-land rice, from Kelantan, Malaya.

133454. *Jintan Kering*.

133456. *Sa-Brumi (Putch)*.

133455. *Kaki Merpati*.

133457 to 133465. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Egypt. Seeds presented by the Ministry of Agriculture, El Giza. Received July 20, 1939.

133457. *Beladi 116*.

133462. *Giza 7*.

133458. *Beladi 164*.

133463. *Giza 121*.

133459. *Durum H 2*.

133464. *Hindi D*.

133460. *Giza 1 E*.

133465. *Hindi 62*.

133461. *Giza 4*.

133466 to 133473.

From Sweden. Seeds presented by Dr. G. Nilsson-Leissner, Plant Breeding Institute of Svalöf, Svalöf. Received July 13, 1939.

133466 to 133468. PHELEUM PRATENSE L. Poaceae.**Timothy.**

133466. *Bore*.

133468. *Gloria*.

133467. *Bottinia*.

133469 to 133471. POA spp. Poaceae.**Bluegrass.**

133469. *Fylking*.

133471. *Skandia II*.

133470. *Skandia I*.

133472 and 133473. TRIFOLIUM REPENS L. Fabaceae.**White clover.**

133472. F. C. No. 13213.

133473. F. C. No. 13214.

133474 to 133478.

From New Zealand. Seeds presented by E. Bruce Levy, Director, Plant Research Bureau, Palmerston North. Received July 15, 1939.

133474 and 133475. *LOLIUM MULTIFLORUM* Lam. Poaceae. **Italian ryegrass.**

133474. *New Zealand Certified Mother; Bb 277.*

133475. *New Zealand Pedigreed Bb 267.*

133476 to 133478. *LOLIUM PERENNE* L. Poaceae. **Perennial ryegrass.**

133476. *New Zealand Government Stock Ba 6401.*

133477. *New Zealand Certified Mother; Ba 6421.*

133478. *New Zealand Certified Permanent Pasture Ba 6443.*

133479 and 133480. *LUPINUS* spp. Fabaceae. **Lupine.**

From England. Seeds presented by H. Hope, Midland Agricultural College, Sutton Bonington, Loughborough. Received July 17, 1939.

133479. *LUPINUS ANGUSTIFOLIUS* L.

Sweet Blue Lupin.

133480. *LUPINUS LUTEUS* L.

European yellow lupine.

Pedigree Yellow Sweet Lupin.

133481 to 133492. *GOSSYPIUM*. Malvaceae. **Cotton.**

From Brazil. Seeds presented by J. B. Griffing, Director, Escola Superior de Agricultura, Viçosa, Minas Geraes. Received July 21, 1939.

A collection of cottonseeds. Each lot is from a single plant of superior progeny.

133481. Y. 278-12, 15.6, 25.32, 87.

133482. Y. 528-18, 12.1, 6.6, 35.26, 29.18.

133483. Gr. 6-10, 19.7, 11.4, 36.8, 28.2.

133484. Y. 38-9, 10.9, 5.81, 34.7, 28.6.

133485. Y. 278-5, 12.04, 6.32, 34.5, 28.12.

133486. Gr. C-36, 18.82, 11.3, 37.5, 30.08.

133487. Y. 38.11, 10.75, 5.5, 33.8, 30.5.

133488. Y. 528-25, 11.3, 7.0, 38.2, 27.2.

133489. Y. 278-7, 13.19, 7.18, 35.3, 30.25.

133490. Gr. C-29, 18.22, 11.6, 38.9, 27.22.

133491. Y. 278-17, 12.4, 6.18, 33.5, 30.36.

133492. Gr. C-40, 17.06, 11.66, 40.6, 26.68.

133493 and 133494. *LACTUCA SATIVA* L. Cichoriaceae.

Garden lettuce.

From Germany. Seeds presented by Dr. A. Schultz, Versuchs und Forschungsanstalt für Gartenbau, Berlin-Dahlem. Received July 21, 1939.

133493. *Böettner Trieb.*

133494. *Maikönig Trieb.*

133495. *HIBISCUS CANNABINUS* L. Malvaceae. **Ambari hemp.**

From Brazil. Seeds presented by J. B. Griffing, Director, Escola Superior de Agricultura, Viçosa, Minas Geraes. Received July 21, 1939.

For previous introduction see 133034.

133496. CITRUS AURANTIFOLIA (Christm.) Swingle. Rutaceae. Lime.

From Surinam. Budsticks presented by Dr. D. S. Fernandez, Director, Colony of Surinam, Paramaribo. Received July 22, 1939.

A spineless and seedless form.

133497 to 133540.

From Australia. Plants purchased from L. P. Rosen & Sons, Carlingford, New South Wales. Received July 25, 1939.

133497 to 133510. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

133497. <i>Bell's November.</i>	133504. <i>King of All.</i>
133498. <i>Black Braddock.</i>	133505. <i>Late Queen.</i>
133499. <i>Braddock Imperial.</i>	133506. <i>Mannell's Slip.</i>
133500. <i>Eclipse.</i>	133507. <i>Meteor.</i>
133501. <i>Elberta Camden.</i>	133508. <i>Phillip's Cling.</i>
133502. <i>Italian Cling.</i>	133509. <i>Pioneer.</i>
133503. <i>Italian Slip.</i>	133510. <i>Rennie.</i>

133511 to 133519. MALUS SYLVESTRIS Mill. Malaceae. Apple.

133511. <i>Allsopp's Early.</i>	133516. <i>Kirks.</i>
133512. <i>Auradell.</i>	133517. <i>Mobb's Royal.</i>
133513. <i>Carrington Striped.</i>	133518. <i>Ruby Gem.</i>
133514. <i>Dandry.</i>	133519. <i>Waldron.</i>
133515. <i>Frimley.</i>	

133520 to 133523. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

133520. <i>Camden Superb.</i>	133522. <i>Glengarry.</i>
133521. <i>Cattell Early.</i>	133523. <i>Shipley Blenheim.</i>

133524 to 133538. PRUNUS sp.

A collection of named plums.

133524. <i>Anderson's Early.</i>	133532. <i>Jewel King.</i>
133525. <i>Chalco.</i>	133533. <i>King of Damsons.</i>
133526. <i>Croswell's Prolific.</i>	133534. <i>Lutherborough.</i>
133527. <i>Discovery.</i>	133535. <i>McNamara.</i>
133528. <i>Doris.</i>	133536. <i>Mrs. Burt.</i>
133529. <i>Early Gem.</i>	133537. <i>Paterson Early.</i>
133530. <i>Early Jewel.</i>	133538. <i>Tibbitt's.</i>
133531. <i>Early Purple.</i>	

133539 and 133540. PYRUS COMMUNIS L. Malaceae. Common pear.

133539. <i>Bailey's Bergamot.</i>
133540. <i>China.</i>

133541 and 133542. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From Ecuador. Seeds presented by Commander George H. Dyott, through the consulate general, Guayaquil. Received July 21, 1939.

133541. A tomato found growing on low, very wet land. The vine was strong and healthy and produced a large number of exceptionally big fruits.

133542. A wild tomato which produces deep-red fruits $\frac{3}{8}$ to $\frac{1}{2}$ inch in diameter and 6 to 8 in a cluster set well apart. The vigorous healthy plant from which these seeds were collected covered a circle 10 feet in diameter.

133543 to 133595.

From Australia. Plants purchased from G. A. Nobelius & Sons, Gembrook Nurseries, Emerald, Victoria. Received July 25, 1939.

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| 133543 to 133556. AMYGDALUS PERSICA L. | Amygdalaceae. | Peach. |
| 133543. <i>Barwon.</i> | 133550. <i>Peak Cling.</i> | |
| 133544. <i>Bell's November.</i> | 133551. <i>Peregrine.</i> | |
| 133545. <i>Catherine Ann.</i> | 133552. <i>Pickering.</i> | |
| 133546. <i>Chapman.</i> | 133553. <i>Pumps Seedling.</i> | |
| 133547. <i>Elberta Cling.</i> | 133554. <i>Sure Crop.</i> | |
| 133548. <i>Hawkesbury Champion.</i> | 133555. <i>Webb's Seedling.</i> | |
| 133549. <i>Ireland's Seedling.</i> | 133556. <i>Willow-leaved Elberta.</i> | |

133557 and 133558. AMYGDALUS PERSICA VAR. NECTARINA Ait. Amygdalaceae. **Nectarine.**

133557. *Fripp's Late.*
 133558. *Victoria Rivers.*

133559 to 133571. MALUS SYLVESTRIS Mill. Malaceae. **Apple.**

- | | |
|------------------------------------|----------------------------------|
| 133559. <i>Australian Beauty.</i> | 133566. <i>Red Statesman.</i> |
| 133560. <i>Golden Reinette.</i> | 133567. <i>Rymer.</i> |
| 133561. <i>Hopton.</i> | 133568. <i>Scarlet Pearmain.</i> |
| 133562. <i>Loy.</i> | 133569. <i>Sharp's Early.</i> |
| 133563. <i>Newmann's Seedling.</i> | 133570. <i>Stone Pippin.</i> |
| 133564. <i>Prince Alfred.</i> | 133571. <i>Summer King.</i> |
| 133565. <i>Red Pomme de Neige.</i> | |

133572 to 133584. PRUNUS spp. Amygdalaceae.

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| 133572. <i>Black Diamond cherry.</i> | 133579. <i>Late Black Orleans plum.</i> |
| 133573. <i>Dark Florence cherry.</i> | 133580. <i>Maguire plum.</i> |
| 133574. <i>Cole's Superior plum.</i> | 133581. <i>Purple Gage plum.</i> |
| 133575. <i>Crittendens plum.</i> | 133582. <i>Red Cherry plum.</i> |
| 133576. <i>Decaisne plum.</i> | 133583. <i>Splendor plum.</i> |
| 133577. <i>Emerald plum.</i> | 133584. <i>Yellow Cherry plum.</i> |
| 133578. <i>Kirks plum.</i> | |

133585 to 133590. PRUNUS ARMENIACA L. Amygdalaceae. **Apricot.**

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|---------------------------|--------------------------|
| 133585. <i>Alsace.</i> | 133588. <i>Oullins.</i> |
| 133586. <i>Blenheim.</i> | 133589. <i>Roxburgh.</i> |
| 133587. <i>Newcastle.</i> | 133590. <i>Royal.</i> |

133591 to 133595. PYRUS COMMUNIS L. Malaceae. **Common pear.**

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|--------------------------------|------------------------------------|
| 133591. <i>Black Achan.</i> | 133594. <i>Stanley.</i> |
| 133592. <i>Corona.</i> | 133595. <i>Trésorier Lesacher.</i> |
| 133593. <i>Packman's Late.</i> | |

133596 to 133599. PRUNUS AVIUM L. Amygdalaceae. **Mazzard.**

From the Netherlands. Seeds presented by the Arboretum Landbouwhoogeschool, Wageningen. Received July 25, 1939.

133600. ERICA CINEREA VAR. FULGIDA Regel. Ericaceae.

From England. Plants purchased from Prichard & Sons, Christchurch, Hants. Received September 30, 1935. Numbered in July 1939.

A very striking variety with red, almost scarlet flowers, but less vigorous than the type.

133601 to 133608.

From the Union of Soviet Socialist Republics. Seeds presented by the Director, Tifis Botanical Institute, Tifis. Received July 31, 1939.

133601 to 133604. BELLEVALIA spp. Liliaceae.

133601. BELLEVALIA LONGISTYLA (Miscz.) Grossh.

A bulbous plant with lanceolate leaves about 1 foot high and $\frac{1}{2}$ inch wide, and a panicle of 15 to 25 small rusty-purple, campanulate flowers. Native to the Caucasus region.

For previous introduction see 115865.

133602. BELLEVALIA MAKUENSIS Voronov.

A bulbous plant, native to dry places in the Caucasus, with leaves 8 to 12 inches long and $\frac{1}{2}$ inch wide and a broad panicle of small brown-violet flowers.

For previous introduction see 108784.

133603. BELLEVALIA SPECIOSA Voronov.

A bulbous plant native to Armenia and Transcaucasia, with 4 or 5 lorate narrow leaves about 6 inches long with narrow cartilaginous margins and small yellow flowers in a dense raceme about 7 inches long.

For previous introduction see 108785.

133604. BELLEVALIA WILHELMSII (Stev.) Voron.

133605. CYCLAMEN IBERICUM Stev. Primulaceae.

A dwarf herbaceous perennial with oval-rounded leaves zoned with white, also purple flowers with darker-colored throats. Native to the Caucasus region.

For previous introduction see 109794.

133606. MUSCARI COLCHICUM Grossheim. Liliaceae.

Grape-hyacinth.

133607. MUSCARI TENUIFLORUM Tausch. Liliaceae.

Grape-hyacinth.

A grape-hyacinth from south-central Europe, similar to *Muscari comosum*, but generally smaller, with upright, narrower, linear leaves as tall as the stem, which is about 1 foot high. The lower fertile flowers, in a cylindrical raceme, are apple green with deep-brown, slightly recurved segments, while the numerous sterile flowers form a rather dense, long raceme above.

For previous introduction see 90636.

133608. STERNBERGIA COLCHICIFLORA Waldst. and Kit. Amaryllidaceae.

An autumn-blooming sternbergia with 4 to 6 erect linear leaves $\frac{3}{4}$ to 4 inches long and bright-yellow flowers with the cylindrical perianth tube $\frac{1}{2}$ inch or longer, also oblanceolate segments about 1 inch long. Native to southern Europe.

133609 and 133610. PRUNUS AVIUM L. Amygdalaceae. **Mazzard.**

From Denmark. Seeds presented by the Universitetets Botaniske Have, København. Received July 31, 1939.

133609. Seeds from plants grown in the botanic garden at Copenhagen.

133610. Seeds from wild trees, collected in northern Sjaelland.

133611 to 133620. SOLANUM spp. Solanaceae.

From Argentina. Tubers presented by Paul O. Nyhus, Agricultural Attaché, American Embassy, Buenos Aires. Received August 8, 1939.

133611 to 133617. SOLANUM ANDIGENUM Juzepchuk and Bukasov.

A tuberous solanum native to Peru.

133611. Var. *Del Cerro*.

133612. Var. *Runa Blanca*.

133611 to 133620—Continued

133613. Var. *Runa Colorada* No. 1.

133614. Var. *Overa*.

133615. Var. *Rumi Blanca*.

133616. Var. *Rumi Colorada* No. 6.

133617. Var. *Criolla Colorada*.

133618. *SOLANUM GARCIAE* Juzepchuk and Bukasov.

A tuberous herb, native to Argentina. Allied to *Solanum gibberulosum*.

For previous introduction see 133072.

133619. *SOLANUM GIBBERULOSUM* Juzepchuk and Bukasov.

A tuberous herb, native to Argentina.

For previous introduction see 133073.

133620. *SOLANUM HOROVITZII* Bukasov.

A tuberous herb with stems about 18 inches high. Allied to *Solanum setulosum*. Native to Argentina.

133621. DIOSPYROS DISCOLOR Willd. Diospyraceae. **Mabolo.**

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered in July 1939.

Originally from Puerto Rico. A medium-sized tree with shining leaves 5 to 10 inches long, pubescent beneath. The velvety, dull-reddish, thin-skinned fruits, 3 inches long and nearly 4 inches in diameter, have firm, rather dry flesh of rather indefinite sweet flavor and 4 to 8 large seeds. Native to the Philippine Islands.

For previous introduction see 106988.

133622. DENDROCALAMUS ASPER (Schultes) Backer. Poaceae.

Bamboo.

From Surinam. Plants presented by the Department of Agriculture of Surinam, Paramaribo. Received August 1, 1939.

133623. SOLANUM sp. Solanaceae.

From Peru. From the Estación Experimental La Molina, Lima. Received August 8, 1939.

133624. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

From Australia. Seeds presented by the University of Sydney, Sydney, New South Wales. Received August 8, 1939.

133625 and 133626.

From Mexico. Bulbs presented by Christian Halbinger, Mexico, D. F. Received August 9, 1939.

133625. *NOTHOSCORDUM BIVALVE* (L.) Britton. Liliaceae.

A bulbous perennial with linear basal leaves and a scape about 1 foot high, bearing an umbel of small yellow flowers.

For previous introduction see 92497.

133626. *ZEPHYRANTHES* sp. Amaryllidaceae.

133627. AMYGDALUS PERSICA L. Amygdalaceae.

Peach.

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered August 9, 1939.

Seedling of P. I. 84273, the seeds of which were collected by H. L. Westover, Bureau of Plant Industry, in the market of Chimbai, Russian Turkistan, September 23, 1929.

133628. ZEPHYRANTHES sp. Amaryllidaceae.

From Mexico. Bulbs presented by Christian Halbinger, Mexico, D. F. Received August 12, 1939.

133629 to 133727. SOLANUM spp. Solanaceae.

From the Union of Soviet Socialist Republics. Tubers presented by the Institute of Plant Industry, Leningrad. Received August 14, 1939.

133629. SOLANUM ARACC-PAPA Juzepchuk.

K. D. 82-A. A species native to Peru.

133630 to 133640. SOLANUM AJUSCOENSE Bukasov.

133630. K. D. 191.	133636. D. 199.
133631. K. D. 193.	133637. D. 200.
133632. K. D. 195.	133638. D. 201.
133633. K. D. 196.	133639. K. D. 202.
133634. D. 197.	133640. D. 203.
133635. D. 198.	

133641 to 133655. SOLANUM ANTIPOVICZII Bukasov.**133641 to 133648. Forma *coloratum*.**

133641. K. D. 128.	133645. K. 137.
133642. K. D. 129.	133646. K. D. 138.
133643. K. D. 130.	133647. D. 139.
133644. D. 136.	133648. K. D. 143.

133649. D. 157. Forma *densipilosum*.

133650. D. 158. Forma *densipilosum*.

133651 to 133655. Variety *Gundara*.

133651. K. D. 147.	133654. K. D. 151.
133652. D. 149.	133655. K. D. 156.
133653. K. D. 150.	

133656 to 133659. SOLANUM BOERGERI Bukasov.

133656. K. D. 46.	133658. K. D. 46-4.
133657. K. D. 46-2.	133659. K. D. 46-12.

133660. SOLANUM CATARTHUM Juzepchuk.

B-32. A species with stems up to 12 inches high. Native to the Peruvian Andes.

For previous introduction see 133056.

133661. SOLANUM sp.

B-46. Received under the specific name "chocclo," for which a place of valid publication has not been found.

For previous introduction see 133068.

133662. SOLANUM EMMEAE Juzepchuk and Bukasov.

No. B-23.

133663. SOLANUM GARCIAE Juzepchuk and Bukasov.

No. K-11. A species native to Argentina. Allied to *Solanum gibberulosum*.

For previous introduction see 133072.

133629 to 133727—Continued

133664. SOLANUM GIBBERULOSUM Juzepchuk and Bukasov.

No. D-44. A species native to Argentina.

For previous introduction see 133078.

133665. SOLANUM LAPLATIOUM Bukasov.

No. K-7. A species with stems about 1 foot high. Allied to *Solanum comersonii*. Native to Argentina.

For previous introduction see 133078.

133666 to 133682. SOLANUM LEPTOSTIGMA Juzepchuk.

A wild potato similar to *Solanum tuberosum* in habit. Native to Chile.

133666. D. 90.	133675. K. D. 108.
133667. D. 91.	133676. K. D. 110.
133668. D. 97.	133677. K. D. 112.
133669. K. D. 99.	133678. K. D. 114.
133670. D. 100.	133679. K. D. 115.
133671. K. D. 102.	133680. K. D. 119.
133672. K. D. 105.	133681. K. D. 120.
133673. K. D. 106.	133682. K. D. 121.
133674. K. D. 107.	

133683. SOLANUM sp.

K. D. 39. Received under the specific name "macmillanii," for which a place of valid publication has not been found.

133684 to 133701. SOLANUM MACOLAE Bukasov.

A species with stems over 1 foot high, native to Argentina.

For previous introduction see 133126.

133684. D. 53.	133693. K. D. 67.
133685. K. D. 55.	133694. K. D. 68.
133686. K. D. 57.	133695. K. D. 69.
133687. K. D. 58.	133696. D. 70.
133688. K. D. 59.	133697. K. D. 71.
133689. K. D. 61.	133698. K. D. 72.
133690. K. D. 62.	133699. K. D. 73.
133691. K. D. 63.	133700. K. D. 74.
133692. K. D. 65.	133701. K. D. 76.

133702. SOLANUM MAMILLIFERUM Juzepchuk and Bukasov.

Native to southern Peru and Bolivia.

For previous introduction see 133081.

133703. SOLANUM MILLANII Bukasov and Lechnovitz.

133704 to 133707. SOLANUM MOLINAE Juzepchuk.

A wild potato similar in habit to *Solanum maglia*. Native to Chile.

133704. K. D. 123.	133706. K. D. 125.
133705. K. D. 124.	133707. K. D. 129.

133708. SOLANUM PARODII Juzepchuk and Bukasov.

A species native to Argentina, allied to *Solanum gibberulosum*.

For previous introduction see 133084.

133629 to 133727—Continued

133709 to 133724. *SOLANUM SCHIOKII* Juzepchuk and Bukasov.

A species native to Argentina, allied to *Solanum chacoensis*.

For previous introduction see 133127.

133709. K. D. 24.	133717. K. D. 33.
133710. D. 25.	133718. K. D. 34.
133711. D. 26.	133719. K. D. 35.
133712. K. D. 27.	133720. K. D. 36.
133713. D. 28.	133721. K. D. 37.
133714. D. 29.	133722. K. D. 38.
133715. D. 30.	133723. K. D. 39.
133716. K. D. 32.	133724. K. D. 54.

133725. *SOLANUM VERRUCOSUM* Schlecht.

No. K. D. 211. A Mexican potato closely related to *Solanum tuberosum*.

133726. *SOLANUM LEPTOSTIGMA* Juzepchuk.

No. K. D. 111. A wild potato similar to *Solanum tuberosum* in habit.

For previous introduction see 133682.

133727. *SOLANUM* sp.

No. D. 122.

133728. *HIBISCUS CANNABINUS* L. Malvaceae.

Ambari hemp.

From Brazil. Seeds presented by Dr. John B. Griffing, Escola Superior de Agricultura e Veterinaria, Viçosa, Minas Gerais. Received August 15, 1939.

For previous introduction and description see 133495.

133729 to 133737.

From Australia. Plants purchased from Lasscock's Nurseries, Lockleys, South Australia. Received August 17, 1939.

133729 and 133730. *AMYGDALUS PERSICA* L. Amygdalaceae. **Peach.**

133729. *Crimson*, a double-flowering peach.

133730. *Mellor Park Crimson*, a double-flowering peach.

133731. *CITRUS LIMON* (L.) Burm. f. Rutaceae. **Lemon.**

Seedless Lisbon.

133732 and 133733. *CITRUS NOBILIS* var. *DELICIOSA* (Ten.) **Mandarin orange.**

133732. *Beauty of Glen Retreat*.

133733. *Canton*.

133734. *CITRUS* sp.

Compuda orange.

133735. *ERIOBOTRYA JAPONICA* (Thunb.) Lindl. Malaceae. **Loquat.**

Chatsworth Victory.

133736. *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**

Cleopatra.

133737. *RHEUM RHAPONTICUM* L. Polygonaceae. **Common rhubarb.**

Mould's Crimson.

133738 to 133740. *AMYGDALUS PERSICA* L. Amygdalaceae. **Peach.**

From the Union of South Africa. Plants purchased from J. A. Herholdt & Sons Nurseries, Johannesburg. Received August 18, 1939.

133738. *Alpha Supreme*.

133739. *Early Dawn*.

133740. *Jubilee*.

133741 to 133760.

From Australia. Plants purchased from Balhannah Nurseries, Balhannah, South Australia. Received August 24, 1939.

133741 to 133747. AMYGDALUS PERSICA L. Amygdalaceae. **Peach.**

133741. *Lady Palmerston.*

133742. *Millicent.*

133743. *Riverside* (formerly *Late Red Italian*).

133744. *Sims.*

133745. *Smiths.*

133746. *Wright's Early.*

133747. *Zerbes.*

133748. CYDONIA OBLONGA Mill. Malaceae. **Quince.**

Smyrna.

For previous introduction see 128646.

133749 to 133752. MALUS SYLVESTRIS Mill. Malaceae. **Apple.**

133749. *Red Statesman.*

133750. *Stone Pippin.*

133751. *Strawberry Pippin.*

133752. *Summer Strawberry.*

133753 to 133759. PRUNUS spp. Amygdalaceae.

133753 to 133756. PRUNUS ARMENIACA L. Amygdalaceae. **Apricot.**

133753. *Newcastle Early.*

133754. *Oullins Early.*

133755. *Riverside.*

133756. *Skuse's Late.*

133757. PRUNUS sp.

Driver's Up-To-Date cherry.

133758. PRUNUS INSITITIA L.

Cole's Prolific damson.

133759. PRUNUS SALICINA L.

Rubio.

Japanese plum.

133760. PYRUS COMMUNIS L. Malaceae.

Passans du Portugal.

Common pear.

133761. GOSSYPIUM sp. Malvaceae. **Cotton.**

From Jamaica. Seeds presented by A. G. McCatty, Kingston. Received August 5, 1939.

Wild cottonseed collected on an island off the coast of Jamaica.

133762 to 133836. SOLANUM spp. Solanaceae.

From the Union of Soviet Socialist Republics. Tubers presented by the Institute of Plant Industry, Leningrad. Received August 26, 1939.

133762. SOLANUM ARACC-PAPA × GONIOCALYX.

K 9-170a-3.

133763. SOLANUM ARACC-PAPA × BYBINII.

K 9-193.

877548-50-3

133762 to 133836—Continued

133764. SOLANUM ARACC-PAPA × RYBINII × BALINII.

K 9-194.

133765 and 133766. SOLANUM BOYACENSE × ARACC-PAPA.

133765. K 9-197a.

133766. K 9-198.

133767 to 133773. SOLANUM BUKASOVII × ARACC-PAPA.

133767. 9-37, 7-22.

133771. 9-37-3, 7-22.

133768. 9-37, 7-22-1.

133772. 9-37-6, 7-22.

133769. 9-37, 7-22-5.

133773. K 9-69.

133770. 9-37, 7-22-7.

133774 to 133778. SOLANUM CATARTHURUM × BETULA.

133774. 9-249, 5-238-1.

133777. 9-249, 5-238-4.

133775. 9-249, 5-238-2.

133778. 9-249, 5-238-5.

133776. 9-249, 5-238-3.

133779 to 133790. SOLANUM CHAUCHA × ARACC-PAPA.

133779. 9-154, B 63-1.

133785. K-9-155.

133780. 9-154, B 63-2.

133786. 9-155, 5-72-3.

133781. 9-154, B 63-3.

133787. 9-155, 5-72-4.

133782. 9-154, B 63-4.

133788. 9-155, 5-72-5.

133783. 9-154, B-63-5.

133789. 9-155, 5-72-6.

133784. 9-154, B 63-6.

133790. 9-155, 5-72-8.

133791 to 133807. SOLANUM CIECAE × RYBINII.

133791. 9-157, 5-163-2.

133800. 9-167, N 38-9-7.

133792. 9-167.

133801. 9-167, N 38-9-9.

133793. 9-167-6.

133802. 9-167, N 38-9-13.

133794. 9-167-21.

133803. 9-167, N 38-9-16.

133795. 9-167, N 38-9.

133804. 9-167, N 38-9-26.

133796. 9-167, N 38-25.

133805. 9-167-18, N 38-9.

133797. 9-167, N 38-9-2.

133806. 9-167-22, N 38-9.

133798. 9-167, N 38-9-28.

133807. 9-167-27, N 38-9.

133799. 9-167, N 38-9-5.

133808 and 133809. SOLANUM EMMEAE × GONIOCALYX.

133808. 9-168, A-4.

133809. 9-168, 7-8, A-11.

133810. SOLANUM GARCIAE × SCHICKII.

9-13.

133811 and 133812. SOLANUM GIBBERULOSUM × MACOLAE.

133811. 9-30, N 39-10A.

133812. 9-30, N 39-10C.

133813 to 133818. SOLANUM GIBBERULOSUM × SCHICKII.

133813. K 9-10, 5-946-3.

133816. K 9-12.

133814. K-9-10, 5-946-4.

133817. K 9-12, 5-369-3.

133815. K 9-10, 5-946-6.

133818. K-9-12, 5-369-5.

133762 to 133836—Continued

133819. SOLANUM GONIOCALYX × BUKASOVII × RYBINII.

9-196.

133820. SOLANUM KESSELBREMERI × ARACC-PAPA.

9-202.

133821. SOLANUM KESSELBREMERI × EMMEAE.

9-201.

133822 and 133823. SOLANUM KESSELBREMERI × PHUREJA.

133822. 9-143.

133823. 9-144.

133824. SOLANUM LAPLATICUM × SCHICKII.

K 9-2.

133825 to 133830. SOLANUM MACOLAE × CATARTHURUM.

133825. 9-32, 5-61-2.

133828. 9-32, 5-61-16.

133826. 9-32, 5-61-5.

133829. 9-32, 6-61-9.

133827. 9-32, 5-61-7.

133830. 9-32, 6-61-15.

133831. SOLANUM PHUREJA × ARACC-PAPA.

9-142.

133832. SOLANUM RYBINII × EMMEAE.

9-192.

133833. SOLANUM RYBINII × GONIOCALYX × BUKASOVII.

9-195.

133834. SOLANUM CHAUCHA × RYBINII.

9-156 A.

133835. SOLANUM SCHICKII × HOROVITSII.

9-19.

133836. SOLANUM SCHICKII × RYBINII.

9-188, 5-182-3-1.

133837. IXORA sp. Rubiaceae.

From Puerto Rico. Plants presented by Atherton Lee, Director, Puerto Rico Experiment Station, Mayaguez. Received August 28, 1939.

Double Red. Originally obtained from Trinidad.

133838 to 133842. PRUNUS spp. Amygdalaceae.

From Massachusetts. Budsticks presented by Alfred Rehder, Arnold Arboretum, Jamaica Plain. Received August 28, 1939.

133838. PRUNUS AVIUM var. ASPLENIFOLIA (Kirchn.) Jaeg.

A variety with deeply and irregularly toothed leaves.

133839. PRUNUS CERASUS L.

Sour cherry.*Rhevi.*

133840. PRUNUS CERASUS var. SALICIFOLIA Jaeg.

A variety with narrow leaves 4 to 6 inches long that are coarsely and doubly serrate.

133841. PRUNUS CERASUS var. UMBRACULIFERA Jaeg.

A variety of compact rounded habit, with small leaves.

133838 to 133842—Continued

133842. × PRUNUS FONTANESIANA (Spach) C. Schneid. (*Prunus avium* × *mahaleb*.)

An ornamental cherry resembling *Prunus avium*, with slightly pubescent branches, smaller and broader leaves less than 4 inches long, often rounded or subcordate at the base; flowers less than 1 inch across, and small dark-red, somewhat bitter fruits.

133843. CAESALPINIA MEXICANA A. Gray. Caesalpinaceae.

From Mexico. Seeds presented by Peter Heinz, Brownsville, Tex. Received August 24, 1939.

A shrub or small tree with oblong or orbicular leaflets up to 1 inch long and large racemes of rather large, yellow flowers which are borne throughout the year. Native to Mexico.

133844. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From California. Plants growing in the United States Plant Introduction Garden, Chico. Numbered August 30, 1939.

Selection (E-95-26). A freestone peach, Elberta type; flesh yellow tinged with red around the pit.

This is a seedling from P. I. 82646, which was received January 8, 1930. Collected by W. E. Whitehouse, Bureau of Plant Industry, in Andijan, Turkistan, U. S. S. R.

133845 to 133888.

From New Zealand. Plants presented by H. R. Wright, Avondale, Auckland. Received August 30, 1939.

133845 to 133870. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

133845. *Black Prince*.

133846. *Free King*.

133847. *Free Queen*.

133848. *Golden Honey Cling Peacherine*.

133849. *Golden Honey Freestone*.

133850. *Golden Queen*, late.

133851. *Golden Queen*, Seedling No. 1.

133852. *Golden Queen*, Seedling No. 2.

133853. *Golden Queen*, Seedling No. 3.

133854. *Golden Queen*, Seedling No. 4.

133855. *Golden Queen*, Seedling No. 5.

133856. *Golden Queen*, Seedling No. 6.

133857. *Golden Queen*, Seedling No. 7.

133858. *Golden Queen*, Seedling No. 8.

133859. *Goodhue*.

133860. *Lippiatt's Large Queen*.

133861. *Lippiatt's Late*, freestone.

133862. *Pickering*.

133863. *Rikaku Jap*.

133864. *Rising Sun-Jap*

133865. *Tanaka Wase Jap*.

133866. *Tashehana Wase Jap*.

133867. *Turners Pecharine* (*J. H. Hale* × *Goldmine Nectarine*).

133845 to 133888—Continued

133868. *Taylor's Red*.
 133869. *White Elberta*.
 133870. *Wright's Bountiful*.
 133871 to 133874. AMYGDALUS PERSICA VAR. NECTARINA Ait. Nectarine.
 133871. *Golden Cling*, yellow flesh.
 133872. *Roxburgh*, yellow flesh.
 133873. *Smart Red Wonder*.
 133874. *Udy's Cling*. Fine quality and later than Goldmine.
 133875 to 133878. CITRUS spp. Rutaceae.
 133875 and 133876. CITRUS LIMON (L.) BURM. f. Lemon.
 133875. *Italian Pink Flesh*.
 133876. Variegated sport from *Italian Pink Flesh*.
 133877. CITRUS AURANTIFOLIA (CHRISTM.) SWINGLE. Lime.
 A seedless lime from Italy, with a very thin rind.
 133878. CITRUS GRANDIS L. Grapefruit.
Wheeny.
 133879. FRAGARIA sp. Rosaceae. Strawberry.
Wright's Prolific, strong grower.
 133880. MALUS SYLVESTRIS Mill. Malaceae. Apple.
Red Irish Peach. A sport from *Old Irish Peach*.
 133881 to 133888. PRUNUS spp. Amygdalaceae.
 133881 and 133882. PRUNUS SALICINA Lindl. Japanese plum.
 133881. *Cambridge*. A seedling from Burbank, but later and a better variety.
 133882. *Gladstone*. A large yellow early plum.
 133883. PRUNUS DOMESTICA L. Common plum.
King Billy. Said to be a seedling from *Angelina Burdett*.
 133884 to 133888. PRUNUS SALICINA Lindl. Japanese plum.
 133884. *Laird's Early Seedling*.
 133885. *Victory*.
 133886. *Narrabeen*.
 133887. *Wright's Delicious*.
 133888. *Wright's Weeping*.

133889 and 133890.

From the Union of Soviet Socialist Republics. Seeds presented by the Director, All-Union Scientific Research Institute of Medicinal Plants, Moscow District. Received August 10, 1939.

133889. EREMURUS SPECTABILIS Bieb. Liliaceae.

A handsome perennial 3 to 4 feet high, with light-green, triangular leaves and yellow flowers in racemes often 6 inches long. Native to the Caucasus region.

For previous introduction see 107354.

133890. HEMEROCALLIS sp. Liliaceae.

133891 to 133893. PRUNUS AVIUM L. Amygdalaceae. Mazzard.

From Austria. Seeds presented by the Direktion des Botanischen Gartens der Universität, Graz. Received August 22, 1939.

133891. From Platte bei Graz at 600 m. altitude.

133892. From Rickerlberg bei Graz at 400 m. altitude.

133893. From Tanneben bei Peggau (Grazer Bergland) at 815 m. altitude.

133894. MUNDULEA SUBEROSA (Roxb.) Benth. Fabaceae.

From Cuba. Seeds presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received August 22, 1939.

A stout erect shrub with thick, corky bark, native to India and Ceylon. The coriaceous leaves are made up of 6 to 10 pairs of oblong-lanceolate leaflets 1 to 2 inches long, and the red, pea-shaped, thinly silvery flowers, 1 inch long, are in dense terminal racemes.

For previous introduction see 99672.

133895 to 133897. PRUNUS AVIUM L. Amygdalaceae. Mazzard.

From Sweden. Seeds presented by Dr. Daniel Peterson, Botanic Garden, Göteborg. Received August 30, 1939.

Strains of wild cherries growing near Lake Vetter, in the south of Sweden.

133895. Black fruits.

133896. Red fruits.

133897. Black fruits.

133898 to 133904.

From the Union of South Africa. Seeds presented by the Division of Plant Industry, Pretoria. Received August 10, 1939.

133898. *PENNISETUM CILIARE* (L.) Link. Poaceae. Grass.

A perennial grass with ascending stems up to 2 feet high. Native to South Africa.

For previous introduction see 129587.

133899 to 133901. *DIGITARIA* spp. Poaceae. Grass.

133899. *DIGITARIA GAZENSIS* Rendle.

A compactly tufted perennial grass. Native to South Africa.

133900. *DIGITARIA SERIATA* Stapf.

Fingergrass.

For previous introduction see 111105.

133901. *DIGITARIA SMUTSII* Sten'.

133902. *EHRHARTA* sp. Poaceae.

Grass.

133903. *PANICUM DEUSTUM* Thunb. Poaceae.

Grass.

A perennial grass up to 4 feet high, tufted on a short rhizome. Native to South Africa.

133904. *SETARIA SPHACELATA* Stapf and Hubbard. Poaceae.

Grass.

A perennial grass 1½ to 6 feet high, densely tufted on a short, rarely elongated and creeping rhizome. Native to tropical Africa.

133905 and 133906. PRUNUS spp. Amygdalaceae.

From Rumania. Seeds presented by the Grădina Batică a Universității Cluj. Received August 17, 1939.

133905. *PRUNUS AVIUM* L.

Mazzard.

133906. *PRUNUS MAHALEB* L.

Mahaleb cherry.

133907. GOSSYPIUM BARBADENSE L. Malvaceae. Sea-island cotton.

From the British West Indies. Seeds presented by J. B. Hutchinson, Cotton Research Station, Trinidad, through the Empire Cotton Growing Corporation. Received September 2, 1939.

Selected Montserrat.

133908. ACTINIDIA CHINENSIS Planch. Dilleniaceae. Yang tao.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered in September 1939.

Bell No. 32876. A form with very large fruits.

For previous introduction see 112053.

133909. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From England. Tubers presented by Dr. R. N. Salaman, National Institute of Agricultural Botany, Cambridge. Received September 6, 1939.

Var. *Golden Wonder.*

133910 to 133954.

From Australia. Plants purchased from John Brunning & Sons, Somerville Nurseries, Somerville, Victoria. Received September 6, 1939.

133910 to 133916. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

133910. *Atropurpurea.*

133914. *Hauss.*

133911. *Early Dawn.*

133915. *Lyle's Early Red.*

133912. *Elberta* (Dripstone).

133916. *Mary's Choice.*

133913. *Golden Queen.*

133917 and 133918. AMYGDALUS PERSICA var. NECTARINA Ait. Amygdalaceae. Nectarine.

133917. *Fertile de Poiteau.*

133918. *Marina.*

133919. CITRUS SINENSIS (L.) Osbeck. Rutaceae. Orange.

Poorman.

133920 to 133922. MALUS SYLVESTRIS Mill. Malaceae. Apple.

133920. *Cowell.*

133922. *Purpurea.*

133921. *Duke of Clarence.*

133923 to 133951. PRUNUS spp. Amygdalaceae.

133923 to 133936. PRUNUS ARMENIACA L. Apricot.

133923. *Beauge.*

133930. *Newcastle.*

133924. *Belle de Toulouse.*

133931. *Pineapple.*

133925. *Brunning.*

133932. *Robin's Imperial.*

133926. *Bütler.*

133933. *Rosburgh Red.*

133927. *Camden Superb.*

133934. *Salmon.*

133928. *Early Cape.*

133935. *Twyford Seedling.*

133929. *Glengarry.*

133936. *Warwick.*

133937 to 133940. PRUNUS spp.

133937. *Burgdoff's Seedling* cherry.

133938. *Florence* cherry.

133939. *Precoce de Boppard* cherry.

133940. *Twyford* cherry.

133910 to 133954—Continued

133941. PRUNUS CERASIFERA Ehrh.

Myrobalan plum.

Moseri.

133942 to 133950. PRUNUS spp.

133942. *Crittenden Damson.*133947. *Purple Gage* plum.133943. *English Damson.*133948. *Sage* plum.133944. *Excelsior* plum.133949. *Splendour.*133945. *Late Orange* plum.133950. *Yellow Gage.*133946. *Old Green Gage* plum.

133951. PRUNUS.

Var. *Vesuvius.* A form with large purple leaves.

133952 to 133954. RHEUM RHAPONTICUM L. Polygonaceae. Common rhubarb.

133952. *Stone's Ruby.*133954. *Wilson's Ruby.*133953. *Topp's Winter.*

133955 and 133956. VITIS spp. Vitaceae.

Grape.

From Brazil. Cuttings presented by Dr. Fellsberto C. Camargo, Instituto Agronómico, Campinas, São Paulo. Received September 7, 1939.

133955. *Piravano hybrid No. 75.*133956. *Piravano hybrid No. 166.*

133957. COCOS NUCIFERA L. Phoenicaceae.

Coconut.

From Panama. Fruits presented by J. H. Permar, United Fruit Co., Almirante. Received September 7, 1939.

Var. *Green Semi-dwarf*, originally from Java.

133958 to 133965.

From Réunion. Seeds presented by D. P. d'Emmerz de Charmoy, Directeur de la Station d'Essai Domaine de la Bretagne, Saint-Denis. Received July 29, 1939.

133958. CANAVALLA sp. Fabaceae.

133959. PHASEOLUS CALCARATUS Roxb. Fabaceae.

Rice bean.

133960. PHASEOLUS LUNATUS L.

Lima bean.

133961 and 133962. PUERARIA PHASEOLOIDES (Roxb.) Benth. Fabaceae.

A twining, semi-shrubby plant, densely covered with brown hairs. The leaflets are green above and densely matted beneath with gray hairs, and the reddish flowers are in long-stemmed racemes. Native to tropical regions of the Himalayas.

For previous introduction see 132998.

133963 and 133964. STIZOLOBIUM UTILE (Wall.) Piper and Tracy. Fabaceae.

Velvetbean.

For previous introduction see 25120.

133965. VIGNA SINENSIS (Torrer) Savi. Fabaceae.

Cowpea.

133966. PAMIANTHE PERUVIANA Stapf. Amaryllidaceae.

From Florida. Seeds presented by Wyndham Hayward, American Amaryllis Society, Winter Park. Received August 22, 1939.

A Peruvian amaryllid with a stem up to 2½ feet high, a tuft of 5 to 7 long linear, bright-green leaves, and an umbel of 2 to 4 fragrant whitish flowers. The perianth is green in bud, later white or creamy except for the green cylindrical tube about 5 inches long. The outer segments are oblong, about 4 inches long, with a firm green mucro, and the equally long inner segments have a short white mucro. Allied to *Panocratium* and *Hymenocallis*.

For previous introduction see 132720.

133967 to 133976.

From India. Seeds and bulbs collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received September 7, 1939.

133967 to 133973. *ALLIUM* spp. Liliaceae.

133967 to 133970. *ALLIUM CEPA* L.

Onion.

Piyaz. From Bombay, July 27, 1939. An onion which keeps well in warm damp air.

133967. No. 4420.

133969. No. 4422.

133968. No. 4421.

133970. No. 4423.

133971 to 133973. *ALLIUM SATIVUM* L.

Garlic.

133971 and 133972. *Lassam*. From Bombay July 27, 1939.

133971. No. 4418.

133972. No. 4419.

133973. *Lassam*. No. 4424. From Lahore, Punjab, July 30, 1939.

133974. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

No. 4428. *Aru*. From Lahore, Punjab, July 31, 1939. Fruit grown in Peshawar. A freestone peach 3 inches long, with a rather prominent beak; skin yellow with red cheek; flesh yellow and of excellent flavor.

133975. *MANGIFERA INDICA* L. Anacardiaceae.

Mango.

No. 4429. *Am Sujiabadi*. From Lahore, Punjab, July 31, 1939, from fruit said to have come from Sujiabadi, near Multan. Fruit small, beaked, 3½ inches high, bright yellow, "sucking type," i. e., with fiber around the seed, but of splendid subacid flavor. One of the best flavored mangoes of this region; Multan is one of the hottest regions of India and has freezing temperatures in winter.

For previous introduction see 132904.

133976. *EUGENIA* sp. Myrtaceae.

No. 4427. *Jambu*. From Lahore, Punjab, July 30, 1939. A tall handsome tree with dark purple-red, plumlike fruits 1½ inches long. For trial as an ornamental tree in the warmest parts of the United States.

133977 to 134009.

From the Union of South Africa. Plants purchased from J. A. Herholdt & Sons, Johannesburg, Transvaal. Received September 9, 1939.

133977 to 133993. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

133977. *April Beet*.

133986. *Nooiens*.

133978. *Cape Early Cling*.

133987. *Nooiens Herholdt's Strain*

133979. *Early Dawn*.

133988. *Parys Beauty*.

133980. *Empire*.

133989. *Seller's Golden Cling*.

133981. *Florida Crawford*.

133990. *Springbok*.

133982. *Herholdt's Late Cling*.

133991. *Transvaal Yellow (Herholdt's Selected)*.

133983. *Leader*.

133992. *Van Rensburg*.

133984. *Marina*.

133993. *X. M. K.*

133985. *Mary's Choice*.

133994 to 133997. *CYDONIA OBLONGA* Mill. Malaceae.

Quince.

133994. *Cape Selected*.

133996. *Improved Borrie*.

133995. *China Mammoth*.

133997. *Wonder Quince*.

133998 to 134000. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

133998. *Christmas*.

134000. *Sweet Striped*.

133999. *Cleopatra*.

133977 to 134009—Continued

134001 to 134005. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.

134001. *Bush Peach.*

134004. *Large Peach.*

134002. *Early Cape.*

134005. *Precoce de Holland.*

134003. *Large Early Cape.*

134006. *PRUNUS DOMESTICA* L.

Plum.

Alberta plum.

134007 and 134008. *PRUNUS SALICINA* Lindl.

Japanese plum.

134007. *Hatankio Maru.*

134008. *Jap Greengage (Shiro Smomo).*

134009. *PYRUS COMMUNIS* L. Malaceae.

Common pear.

Corona.

134010. *MUSA* sp. Musaceae.

Banana.

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered September 11, 1939.

Originally collected in New Guinea by the Archbold Expedition and presented by Col. R. H. Montgomery, Coconut Grove. The plant is said to become 10 feet tall and to bear 250 yellow cylindrical fruits in a bunch. The fruits, 5 inches long and over 1 inch in diameter, are white-fleshed and palatable, though seedy.

134011. *SABATIA CAMPESTRIS* Nutt. Gentianaceae.

From Texas. Seeds collected near Bonham by Claud Hope, Bureau of Plant Industry. Received September 12, 1939.

134012. *SORGHUM ARUNDINACEUM* (Willd.) Stapf. Poaceae. Grass.

From Africa. Seeds presented by the Department of Agriculture, Salisbury, Southern Rhodesia. Received August 16, 1939.

A grass, native to Southern Rhodesia, which grows on heavy fertile black soils and is apparently perennial. It does not spread by underground roots but volunteers very freely from seed. The stems are somewhat woodier and more cane-like than those of Sudan grass.

For previous introduction see 89030.

134013. *PRUNUS MAHALEB* L. Amygdalaceae.

Mahaleb cherry.

From Denmark. Seeds received from the Universitetets Botaniske Have, København. Received September 12, 1939.

For previous introduction see 133906.

134014. *RICINUS COMMUNIS* L. Euphorbiaceae.

Castor-bean.

From Colombia. Seeds presented by W. A. Kyburz, Cali. Received September 12, 1939.

A plant about 5 feet high, with light-green leaves. The seed clusters remain almost complete on the plant until they are fully dry.

For previous introduction see 116068.

134015 to 134017.

From Central America. Plants presented by Austin Smith, Zarcero, Costa Rica. Received September 18, 1939.

134015. *ANTHURIUM HOFFMANNII* Schott. Araceae.

A terrestrial or epiphytic anthurium with ascending stems about 1 foot long; large leathery, cordate-ovate leaves, about 1 foot long, shiny green above, peduncles 6 inches to 1 foot long, broad lanceolate spathes 4 inches long, and a purplish-red spadix almost as long. Native to Costa Rica at altitudes up to 5,000 feet.

134015 to 134017—Continued

134016. *PHILODENDRON HOFFMANNII* Schott. Araceae.

A climbing arum, sometimes growing in clumps. The leaves are immense, often over 3 feet long, and the flowers are showy with constricted pink and white spathes. The plant grows in half shade from 3,000 to 7,000 feet altitude. Native to Costa Rica.

134017. *PHILODENDRON VERBUCOSUM* Schott.

A terrestrial or epiphytic philodendron with bronze-green cordate leaves up to 8 inches long, the upper surface with a beautiful velvety appearance, and deep-red petioles with soft slender scales. Native to Colombia and common in wet forests up to 5,500 feet in Costa Rica.

134018 to 134041.

From New Zealand. Seeds presented by the Director, Botanic Gardens, Christchurch. Received September 18, 1939.

Unless otherwise mentioned, all of these plants are native to New Zealand.

134018 to 134022. *CELMISIA* spp. Asteraceae.134018. *CELMISIA ARMSTRONGII* Petrie.

A herbaceous perennial with strong stems crowned by radiating sword-shaped leaves 18 inches long having an orange midrib and covered with satiny tomentum. The heads of white flowers, 1 to 2 inches broad, are borne on white cottony scapes about the length of the leaves.

134019. *CELMISIA DISCOLOR* Hook. f.

A herbaceous perennial with stems branching at the base, often forming broad flat-topped cushions. The leaves are crowded, imbricated, leathery, and the large daisylike flower heads are white-rayed.

For previous introduction see 129774.

134020. *CELMISIA INCANA* Hook. f.

A short stout branching herbaceous perennial with broad plaited leathery leaves and large white-rayed flower heads.

For previous introduction see 129776.

134021. *CELMISIA LYALLII* Hook. f.

A herbaceous perennial with short stout stems crowned with dense tufts of crowded radiating, entire, narrow-ensiform rigid, leathery leaves 9 to 19 inches or more in length, and 1 or several scapes with solitary white flowers 1 to 2 inches across.

134022. *CELMISIA NOVAE-ZELANDIAE* (Buch.) Cheeseman.

A densely tufted perennial with woody stems 7 to 8 inches high, many leathery, linear leaves, and 2 to 3 scapes with large white-rayed flower heads.

For previous introduction see 129778.

134023. *CHORDOSPARTIUM STEVENSONI* Cheeseman. Fabaceae.

A leafless shrub or small tree up to 20 feet high with long slender pendulous branches and racemes 1 to 2 inches long of small purple flowers.

For previous introduction see 80566.

134024. *COROKIA BUDDLEIOIDES* A. Cunn. Cornaceae.

A small tree with long narrow leaves, shining above and downy beneath. The small yellow flowers, $\frac{1}{4}$ inch long, are in slender panicles and are followed by orange-red fruits. Native to New Zealand where it flowers in December. The native name is *Korokia-taranga*.

For previous introduction see 129780.

134025. *FUCHSIA PROCUMBENS* R. Cunn. Onagraceae. **Trailing fuchsia.**

A slender prostrate shrub with small ovate or cordate leaves and fragrant yellowish-green flowers $\frac{1}{2}$ inch long; found in sandy or rocky places.

For previous introduction see 125142.

134018 to 134041—Continued

134026. *HEBE RAOULII* (Hook. f.) Cockayne and Allan. Scrophulariaceae.

Introduced under the varietal name "McCaskillii," for which a place of valid publication has not been found.

134027. *HELICHRYSUM BELLIDIODES* (Forst. f.) Willd. Asteraceae.

A trailing, somewhat woody perennial with ovate-spatulate leaves up to $\frac{1}{2}$ inch long, white woolly beneath and green above, and solitary silvery-white flower heads up to $\frac{1}{2}$ inch across.

134028. *HOHERIA GLABRATA* Sprague and Summerhayes. Malvaceae.

134029. *LEPTOSPERMUM SCOPARIUM INCANUM* Cockayne. Myrtaceae.

A small handsome evergreen tree with a rather dense head of upright spreading branches and pendulous branchlets, small ovate lanceolate gray-green leaves, and pale-pink flowers about $\frac{1}{2}$ inch across.

134030. *LIBERTIA IXIODES* (Forst. f.) Spreng. Iridaceae.

A low herbaceous perennial with a short creeping rhizome which forms a compact clump like a beardless iris. It has rigid coriaceous linear leaves 1 foot long and large panicles of small white flowers on a stem 2 feet high.

For previous introduction see 129787.

134031. *MYOSOTIDIUM HORTENSIA* (Decaisne) Baill. Boraginaceae.

A stout succulent perennial herb 1 to 3 feet high, native to the Chatham Islands. The thick fleshy radical leaves, 6 to 12 inches long, are broadly cordate or reniform, and the blue flowers $\frac{1}{2}$ inch across are borne in dense corymbose cymes.

For previous introduction see 103011.

134032. *PODOCARPUS NIVALIS* Hook. Taxaceae.

A much-branched, evergreen shrub, erect or prostrate in habit, with wide-spreading branches often rooting at the bases. The sessile, closely set, stiff, leathery, very narrow leaves are about $\frac{1}{2}$ inch long and are not distichous. The fruit is a small oblong ovoid nut, and the enlarged fleshy fruiting stems are bright red. Of value as an erosion control plant.

For previous introduction see 89342.

134033. *PRATIA TREADWELLI* G. W. Robinson. Campanulaceae.

A prostrate, branching, herbaceous perennial with stems 6 to 12 inches long, small, dark-green, broadly-ovate leaves, and solitary white flowers that are large for the genus; these are followed by purplish-red berries.

For previous introduction see 129798.

134034. *PRATIA MACRODON* Hook. f.

A fleshy herbaceous perennial with stout stems 1 to 5 inches long forming matted patches and broadly obovate, orbicular, thick leathery, deeply and coarsely toothed, cuneate leaves up to $\frac{1}{2}$ inch long. The almost sessile, pale-yellow, fragrant flowers are large for the genus.

134035. *RHIPOGONUM SCANDENS* Forst. Smilacaceae.

A tall climbing shrub with oblong coriaceous leaves 3 to 5 inches long, small greenish flowers in axillary and terminal clusters, followed by bright-red globose berries. The long rough elastic stems have been used to make baskets.

For previous introduction see 77578.

134036. *SENECIO HUNTII* F. Muell. Asteraceae.

A shrub or small round-headed tree 6 to 20 feet high, with close-set, entire, lanceolate or elliptic-oblong leaves up to 4 inches long and yellow flower heads about $\frac{3}{4}$ inch across in large terminal panicles.

134037. *SENECIO MONROI* Hook f.

A much-branched slender shrub 2 to 6 feet high, with narrow oblong-obovate leathery leaves having wavy crenate margins, and numerous broadly turbinate yellow flower heads about $\frac{1}{2}$ inch across. Native to New Zealand at 1,000 to 4,500 feet altitude.

134018 to 134041—Continued**134038.** *SONCHUS GRANDIFOLIUS* T. Kirk. Cichoriaceae.**134039.** *SOPHORA PROSTRATA* J. Buch. Fabaceae.

A rigid, much-branched shrub 2 to 5 feet high. The compound leaves are made up of 2 to 4 pairs of very small oblong ovate leaflets, and the bright-yellow flowers, nearly 1 inch long, are in clusters of 2 to 3 or solitary.

For previous introduction see 101155.

134040. *VERONICA LYALLII* Hook. f. Scrophulariaceae.

A herbaceous perennial with slender, prostrate, rooting, diffusely branched stems up to 1½ feet long; thick, leathery, spreading, broad-ovate to oblong-ovate serrate leaves ¼ to ¾ inch long, and slender racemes of few to many rather large white flowers with pink veins. Native from sea level to 4,500 feet altitude.

134041. *WAHLENBERGIA ALBOMARGINATA* Hook. Campanulaceae.

A perennial with several stems 4 to 12 inches high, mostly radical, spatulate leaves, the blades varying from oblanceolate to obovate, and 1 or few peduncles 3 to 10 inches high with single large white or pale-blue campanulate flowers.

134042 to 134049. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Australia. Seeds presented by H. Wenzholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received September 18, 1939.

Wheat grown at the Experiment Station, Cowra, New South Wales.

134042. *Bungulla.***134046.** *Puora.***134043.** *Calloux.***134047.** *Regalia.***134044.** *Eureka.***134048.** *Seafoam.***134045.** *Fedweb.***134049.** *Seaspray.***134050 and 134051.**

From Puerto Rico. Seeds presented by W. K. Bailey, Acting Director, Puerto Rico Agricultural Experiment Station, Mayaguez. Received September 12, 1939.

134050. *AERIA ATTENUATA* O. F. Cook. Phoenicaceae.**Palma de coyor.**

The tallest of the Puerto Rico palms, reaching a height of 60 to 100 feet. Its pinnate foliage resembles that of the royal palm, but is shorter; the trunk never exceeds 6 to 8 inches in diameter. This palm, which is also known as the *coyore*, is found only on limestone hills and usually feeds upon nothing but the humus collected in the cracks of these rocks. The large bunches of orange-red berries, the size of a small cherry, are very attractive and are fed to chickens and hogs.

For previous introduction see 111878.

134051. *CURIMA COLOPHYLLA* O. F. Cook. Phoenicaceae.**Palm.**

A spiny palm, endemic to the limestone hills of northern Puerto Rico, a region of about 70 inches of rainfall. The trunk grows 20 to 30 feet tall, with a diameter of 5 or 6 inches. The pinnae of the leaves are broad and truncate, as in *Tilma*, but are evenly set along the rachis instead of being clustered. The fruits, borne in large clusters, are round and red like cherries, with a red acid pulp surrounding the round black seed.

For previous introduction see 117598.

134052. TRIFOLIUM MONTANUM L. Fabaceae.**Clover.**

From Belgium. Seeds presented by the Director of the Botanic Garden, Brussels. Received September 13, 1939.

For previous introduction see 125681.

134053 to 134062. ORYZA SATIVA L. Poaceae.**Rice.**

From Japan. Seeds presented by the Director of the Imperial University, Tokyo.
Received September 18, 1939.

134053. <i>Hiderisirazu.</i>	134058. <i>Sensyo.</i>
134054. <i>Kaneko.</i>	134059. <i>Suzumesirazu.</i>
134055. <i>Kurokwa.</i>	134060. <i>Tamasari.</i>
134056. <i>Kurumiwase.</i>	134061. <i>Tikanari</i> No. 2.
134057. <i>Mogamiuruti.</i>	134062. <i>Urasan</i> No. 1.

134063 to 134065.

From New Zealand. Seeds presented by the New Zealand Department of Agriculture, Wellington, through the American Consul General, Wellington.

Received September 12, 1939.

134063. DACTYLIS GLOMERATA L. Poaceae. Orchard grass.
Certified New Zealand Cocksfoot.

For previous introduction see 133327.

134064. LOLIUM PERENNE L. Poaceae. Perennial ryegrass.
Certified New Zealand perennial ryegrass.

For previous introduction see 133478.

134065. TRIFOLIUM REPENS L. Fabaceae. White clover.
Certified New Zealand white clover.

For previous introduction see 133472.

134066 to 134072. ORYZA SATIVA L. Poaceae.**Rice.**

From India. Seeds presented by the Rice Research Station, Larkana, Sind.
Received September 18, 1939.

134066. <i>Bangalo.</i>	134070. <i>Sonahri.</i>
134067. <i>Japai</i> No. 77.	134071. <i>Torb.</i>
134068. <i>Larj.</i>	134072. 34-276-51.
134069. <i>Sada-Gulab.</i>	

134073 and 134074. EUCALYPTUS spp. Myrtaceae.

From Australia. Seeds presented by R. G. Kappler, Secretary, Commonwealth Forestry Bureau, Canberra, through Woodbridge Metcalf, Extension Forester, College of Agriculture, Berkeley, Calif. Numbered in September 1939.

134073. EUCALYPTUS NIPHOPHILA Maiden and Blakely.

A small crooked alpine tree or shrub 3 to 20 feet high, with several whiplike glaucous stems from a large woody rootstock. The bark is usually smooth and white. The mature leaves are alternate, petiolate, lanceolate to lanceolate-falcate, thick, leathery, shining, 1 to 3 inches long. The inflorescence is in short axillary umbels of 3 to 10 flowers. Native to alpine regions of New South Wales and Victoria, where it is subjected to several degrees of frost.

134074. EUCALYPTUS DE BEUZEVILLEI Maiden.

A medium-sized or large tree up to 60 feet high, more or less glaucous, with more or less rough bark, flaky at the base. The mature leaves are lanceolate, slightly falcate, fragrant, thick, slightly shining, about 5 inches long. Native to alpine regions of New South Wales where it is subject to frost in the winter season.

134075 to 134086. ORYZA SATIVA L. Poaceae.**Rice.**

From Indo-China. Seeds presented by the Agricultural Research Station, Saigon.
Received September 19, 1939.

134075. <i>Babrao Pur.</i>	134081. <i>Chum Ray.</i>
134076. <i>Badach.</i>	134082. <i>Den Dau.</i>
134077. <i>Bamonh.</i>	134083. <i>Do Vo.</i>
134078. <i>Batum Long.</i>	134084. <i>Lua Rang.</i>
134079. <i>Batum Rond.</i>	134085. <i>Lua Se.</i>
134080. <i>Bavot.</i>	134086. <i>Take.</i>

134087. FRAGARIA sp. Rosaceae.**Strawberry.**

From England. Plants purchased from the East Malling Research Station, East Malling, Maidstone, Kent. Received September 19, 1939.

Royal Sovereign.

134088 to 134090. SACCHARUM. Poaceae.**Sugarcane.**

From Mauritius. Cuttings presented by G. C. Stevenson, Reduit. Received September 19, 1939.

134088. <i>Branchue.</i>	134090. <i>Rat Gros Ventre.</i>
134089. <i>Gros Genoux.</i>	

134091. ARUNDINARIA AMABILIS McClure. Poaceae. Tonkin bamboo.

From Louisiana. Plants presented by E. A. McIlhenny, Avery Island. Received September 20, 1939.

A bamboo with erect cylindrical culms, usually 20 feet high, rarely 40 feet, with linear-lanceolate leaves about 1 foot long; of garden origin.

For previous introduction see 110509.

134092 to 134094. MANGIFERA INDICA L. Anacardiaceae.**Mango.**

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received September 20, 1939.

Collected August 3, 1939, at Baijnath, Kangra District, Punjab, at 3,000 feet altitude; of interest for cold tolerance as the temperature at Baijnath falls well below freezing.

134092. No. 4458. *Piundi*. Fruit reniform, 3 inches in diameter, yellow, somewhat fibrous, flavor good, but with considerable turpentine flavor in the skin.
134093. No. 4459. *Misi*. Fruit round, 2¼ inches in diameter, yellow, somewhat fibrous, flavor good.
134094. No. 4460. *Duda*. Fruit reniform, 3 inches in diameter, skin green, blotched yellow, somewhat fibrous, flavor good.

134095 to 134098. SACCHARUM. Poaceae.**Sugarcane.**

From Argentina. Cuttings presented by Dr. W. E. Cross, Director, Estación Experimental Agrícola, Tucumán. Received September 21, 1939.

134095. <i>Tucumán No. 1199.</i>	134097. <i>Tucumán No. 1376.</i>
134096. <i>Tucumán No. 1316.</i>	134098. <i>Tucumán No. 2583.</i>

134099. × HIPPEASTRUM AMBIGUUM Herbert. Amaryllidaceae.

From Costa Rica. Bulbs purchased from Austin Smith, Zarcero. Received September 25, 1939.

A variety with white flowers with pink stripes that vary in number.

134100 to 134113. ORYZA SATIVA L. Poaceae. Rice.

From Italy. Seeds presented by the Stazione Sperimentale Di Riscoltura, Vercelli. Received September 19, 1939.

134100. <i>Agostano.</i>	134107. <i>Mantovax Vialone 11.</i>
134101. <i>Americano 1600.</i>	134108. <i>Maratelli.</i>
134102. <i>Ardizzone.</i>	134109. <i>Nero Vialone.</i>
134103. <i>Gancio P. 6.</i>	134110. <i>Oldenico.</i>
134104. <i>Greggio.</i>	134111. <i>Precoce Gesia.</i>
134105. <i>Hirpe 136.</i>	134112. <i>Senator Novelli.</i>
134106. <i>Mantovax Vialone 10.</i>	134113. <i>13.</i>

134114 to 134139.

From Afghanistan. Seeds collected by W. V. Harlan, collaborator, Bureau of Plant Industry, United States Department of Agriculture. Received September 22, 1939.

134114 to 134138. TRITICUM AESTIVUM L. Poaceae. Common wheat.

134114 to 134126. Irrigated wheat, obtained in the bazar at Kabul June 26, 1939.

134114. No. 2.	134121. No. 38.
134115. No. 32.	134122. No. 39.
134116. No. 33.	134123. No. 40.
134117. No. 34.	134124. No. 41.
134118. No. 35.	134125. No. 42.
134119. No. 36.	134126. No. 43.
134120. No. 37.	

134127. No. 56. Collected in the pass toward Istaff July 7, 1939.

134128 to 134131. Irrigated wheat collected in Kabul July 7, 1939.

134128. No. 57.	134130. No. 59.
134129. No. 58.	134131. No. 60.

134132 to 134137. Irrigated wheat obtained at Kabul July 13, 1939.

134132. No. 61.	134135. No. 64.
134133. No. 62.	134136. No. 65.
134134. No. 63.	134137. No. 66.

134138. No. 67. Dry-land wheat obtained in the Logar Valley, near Kabul, July 13, 1939.

134139. ZEA MAYS L. Poaceae.**Corn.**

No. 4. Obtained in the Kabul bazar.

134140 and 134141. ORYZA SATIVA L. Poaceae. Rice.

From Japan. Seeds presented by the Agricultural Experiment Station, Government General of Chosen, Suigen, Chosen. Received September 27, 1939.

134140. <i>Kaneko.</i>
134141. <i>Oiran.</i>

134142 to 134144. ORYZA SATIVA L. Poaceae. Rice.

From Surinam. Seeds presented by the Director, Agricultural Experiment Station, Paramaribo. Received September 27, 1939.

134142. <i>Brisin Missi.</i>	134144. <i>Witte Wanica.</i>
134143. <i>Varij Lava.</i>	

134145 to 134149. ORYZA SATIVA L. Poaceae. Rice.

From India. Seeds presented by the Paddy Specialist, Agricultural Research Institute, Lawley Road, P. O. Coimbatore. Received September 27, 1939.

134145. ADT 12.

134148. ADT 9.

134146. *Kasi Pichodi*.134149. *Yarra Kondangi or Y. K. G.*

134147. No. 5109.

134150 and 134151. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From California. Seedlings growing at the United States Plant Introduction Garden, Chico. Numbered in September 1939.

134150. Selection (E-4-9) from P. I. 43569.

134151. Selection (D-9-3) from P. I. 87637.

134152 to 134164. ORYZA SATIVA L. Poaceae. Rice.

From Brazil. Seeds presented by the Seção de Genética, Instituto Agronômico do Estado, Campinas, São Paulo. Received September 27, 1939.

134152. *Agulha* No. 55.134153. *Agulha-Branco Medio* No. 83.134154. *Catêto* No. 22.134155. *Catetão* No. 24.134156. *Catêto Dourado* No. 23.134157. *Catetão Dourado* No. 82.134158. *Dourado Agulha* No. 3.134159. *Dourado Peludo* No. 1.134160. *Jaguary* No. 8.134161. *Jaguary Dourado Punta Escura* No. 77.134162. *Jaguary Longo* No. 79.134163. *Paraguayo* No. 30.134164. *Parahyba* No. 12.**134165 to 134167. ORYZA SATIVA L. Poaceae. Rice.**

From Argentina. Seeds presented by the Estación Experimental Agrícola, Tucumán. Received September 27, 1939.

134165. *Largo* No. 1.134166. *Secano Bolita* No. 1.134167. *Secano Bolita* No. 2.**134168. ATALANTIA CITROIDES Pierre. Rutaceae.**

From Washington, D. C. Plants growing in the United States Department of Agriculture exhibition greenhouse. Numbered in September 1939.

A small tropical tree, usually spiny, native to Indo-China. The orangelike fruits are about 3 inches in diameter.

For previous introduction see 74237.

134169 and 134170. PRUNUS CERASIFERA Ehrh. Amygdalaceae.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered in September 1939.

Originally received as scions from C. F. Rudloff, Kaiser Wilhelm Institut f. Züchtungsforschung, Müncheberg, Germany, March 11, 1930. From trees originally collected in Asia Minor.

134169. No. 30. From Istanbul.

134170. No. 31. From Istanbul.

134171 and 134172.

From Maryland. Trees growing at the United States Plant Introduction Garden, Glenn Dale. Numbered in September 1939.

134171. *PRUNUS NIGRA* Ait. Amygdalaceae.

Canada plum.

Received August 21, 1934, from H. R. Wright, Auckland, New Zealand.

134172. *PYRUS* sp. Malaceae.

Pear.

A pear of unknown origin whose fruit characters bear a strong resemblance to those of the common pear, *Pyrus communis*.

134173 to 134217.

From France, Italy, Egypt, and India. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received September 21, 1939.

134173. *ALBIZZIA CHINENSIS* (Osbeck) Merr. Mimosaceae.

No. 4443. From Lahore, Punjab, July 31, 1939. A large rapidly growing tree, native to the subtropical regions of India.

For previous introduction see 99688.

134174. *BARRINGTONIA ACUTANGULA* (L.) Gaertn. Lecythidaceae.

No. 4442. From Lahore, Punjab, August 1, 1939. A handsome evergreen tree with orange-red flowers.

134175. *BRASSICA OLERACEA* var. *BOTRYTIS* L. Brassicaceae.

Cauliflower.

No. 4451. *Phulgobi*, meaning "flower cabbage." From Lahore, Punjab, August 2, 1939. A very fine variety with snow-white heads 12 inches across.

134176 to 134178. *CAPSICUM FRUTESCENS* L. Solanaceae.

Redpepper.

134176. No. 4406. *Peperone Giallo*. From Naples, Italy, July 14, 1939; bought in the market. Fruit bullnosed, 5 inches long, bright yellow, tender, sweet, well-flavored.

134177. No. 4407. *Peperone Giallo*. From Genoa, Italy, July 13, 1939; purchased in a seed store; probably like No. 4406 [134176], which is a fine sweet pepper.

134178. No. 4409. *Mirch*. From Bombay, July 25, 1939. Seeds from dried fruits bought in the market. Fruits red, 3½ by 1 inch, hot.

134179. *CICER ARIETINUM* L. Fabaceae.

Chickpea.

No. 4416. *Challa*. Bought in the market at Bombay, July 27, 1939, but said to be from Algeria. A superior strain with larger seeds than most of the Indian races. The seeds are tasty when prepared as lentils, and their flavor is fine for frying fish, vegetable slices, etc.

134180 to 134189. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**

134180. No. 4408. From Port Said, Egypt, July 17, 1939. From fruit slices bought in the street. Texture good, flavor and sugar indifferent; flesh red.

Nos. 134181 to 134185 were purchased in Lahore, Punjab, July 31, 1939.

134181. No. 4430. *Tarbuza*. July 31, 1939. Of unknown origin, certainly not locally grown; fruit subglobose, 10 inches in diameter; rind ¾ inch thick, pea green with narrow dark stripes; flesh rose, good texture, but insipid.

134182. No. 4434. July 31, 1939. Fruit subglobose, 8 inches in diameter; rind green, mottled and veined darker, ⅜ inch thick; flesh rose, of good texture, insipid. Fruit had obviously been stored a considerable time; origin unknown.

134183. No. 4435. *Tarbuza*. Said to have come from Quetta. Fruit globose, 12 inches in diameter, rind grass green; flesh red, overripe and inedible.

134184. No. 4436. Of unknown origin and probably long in storage. Fruit globose, 10 inches in diameter, rind ½ inch thick, dark green with well-indented ribs; flesh rose, insipid, fair texture.

134185. No. 4437. Said to have come from Quetta. Fruit globose, 10 inches in diameter; rind grass green, striped darker.

134173 to 134217—Continued

134186. No. 4446. August 1, 1939. Said to be from Quetta. Fruit 11 by 7 inches, rind pale green, $\frac{3}{4}$ inch thick; flesh rose, overripe.

134187. No. 4447. August 1, 1939. Said to be a large local variety.

134188. No. 4448. August 1, 1939. Said to have come from Quetta. Fruit subglobose, 10 inches in diameter; rind $\frac{3}{8}$ inch thick, pale green with broad stripes of darker green; flesh rose, good texture, insipid.

134189. No. 4452. *Tabusa Jhangi*. August 2, 1939. Said to be a small sweet sort grown at Jhang. Possibly useful in developing a small-fruited variety.

134190 to 134200. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

134190. No. 4404. *Nanté*. From Paris, France, July 9, 1939, bought in a fruit market. Fruit 8 by 5 inches, deeply ribbed. Rind green yellow, coarsely and sparsely netted; flesh thick, orange, juicy, fragrant, but of little flavor.

134191. No. 4405. *Melon d'Hièyers*. From Paris, France, July 10, 1939; bought in the market. Fruit globose, 5 inches in diameter, faintly indented ribs; rind orange, ribs green, faint net; flesh 1 inch thick, pale orange, rather insipid.

134192. No. 4410. *Kharbuza*. From Bombay, India. July 25, 1939. Fruit pumpkin-shaped, 12 by 6 inches, smooth and unribbed; rind golden brown, blotched paler; flesh firm, $1\frac{1}{2}$ inches thick, orange at center, paler toward the rind, very fragrant but rather flat. An excellent keeper.

134193. No. 4426. *Sarda*. Purchased at Lahore, Punjab, July 30, 1939, but said to have come from Chaman, Baluchistan. Fruit unribbed, elongate, 13 by 5 inches; rind yellow with irregular green blotches, heavy netting; flesh $1\frac{1}{2}$ inches thick, whitish, crisp, fairly sweet. This is a type of melon that keeps for months.

Nos. 134194 to 134200 were collected at Lahore, Punjab, August 2, 1939.

134194. No. 4449. *Put Kharbuza*. This melon is the only sort that grows in the monsoon. Fruit said to be elongate; flesh insipid, but may have use for breeding where damp-heat tolerance is required.

134195. No. 4450. *Put Kharbuza*. Like No. 4449 [P. I. 134194]; fruits also said to be elongate.

134196. No. 4453. *Vanga*. Fruit small, subglobose, 2 inches in diameter. Grown chiefly in Sind.

134197. No. 4454. *Tar Lucknowi*. Fruit 2 to 3 feet long, crook-necked, wrinkled and ridged.

134198. No. 4455. *Tar Desi*. Said to be a long, green, much-ridged fruit which is used in the same way as No. 4454 [P. I. 134197].

134199. No. 4456. *Tar Lahori*. Fruit said to be green and to become 2 to 3 feet long. Used the same way as No. 4454 [P. I. 134198].

134200. No. 4457. *Tar Ferozपुरi*. Fruits 3 feet long, white, heavily ridged.

134201. CUCURBITA MOSCHATA Duchesne. Cucurbitaceae. Cushaw.

No. 4425. *Kadu*. From Lahore, Punjab, July 30, 1939. Fruit top-shaped, 15 by 10 inches, weighing 25 pounds, heavily and deeply ribbed. Rind golden brown with bloom, spotted darker and blotched paler; flesh $3\frac{1}{4}$ inches thick, yellow, sweet, fiberless. Last year's crop, but still in perfect condition.

134202. DAUCUS CAROTA L. Apiaceae. Carrot.

No. 4444. *Kala Gajar*. From Lahore, Punjab, August 1, 1939. Said to have black roots.

134203. DIOSPYROS sp. Diospyraceae.

No. 4440. From Lahore, Punjab, August 1, 1939. An attractive small tree.

134204. FLACOURTIA INDICA (Burm. f.) Merr. Flacourtiaceae. Ramontchi.

No. 4445. From Lahore, Punjab, August 1, 1939. A spiny evergreen shrub up to 20 feet high, with crenate leaves, small white flowers, and smooth dark-purple fruits with sweet juicy pulp.

For previous introduction see 101572.

134173 to 134217—Continued

- 134205 and 134206.** *LACTUCA SATIVA* L. Cichoriaceae. **Garden lettuce.**
From Paris, France, July 9, 1939. Bought in the bird market where it was sold as birdseed.
- 134205.** No. 4401.
- 134206.** No. 4402.
- 134207 to 134209.** *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**
- 134207.** No. 4417. From Bombay, July 27, 1939. Fruit flattened, 2½ inches long, red.
- 134208.** No. 4432. Bombay, July 28, 1939. Fruit globose, 1½ inches in diameter, red, adapted to relatively high temperatures.
- 134209.** No. 4433. From Lahore, Punjab, July 31, 1939, but said to have come from Peshawar. Fruit pear-shaped, 1¾ inches long, red; probably able to grow at relatively high temperature.
- 134210.** *PHASEOLUS LUNATUS* L. Fabaceae. **Lima bean.**
No. 4415. Bought in the market at Bombay, July 27, 1939, but said to have come from Madagascar.
- 134211 to 134214.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**
A collection of imported dried beans, bought in the market of Bombay, July 26, 1939.
- 134211.** No. 4411. Said to have come from Hungary.
- 134212.** No. 4412. Said to have come from Japan.
- 134213.** No. 4413. Said to have come from Belgium.
- 134214.** No. 4414. Said to have come from the Danube Valley.
- 134215.** *PISTACIA INTEGERRIMA* Stewart. Anacardiaceae. **Pistache.**
No. 4441. From Lahore, Punjab, August 1, 1939. A large tree up to 60 feet high, native to the warm slopes of the Himalayas in northern India up to 5,000 feet altitude. The aromatic pinnate leaves are made up of 4 or 5 pairs of lanceolate leaflets with an oblique base. The small inconspicuous flowers are in racemose clusters and are followed by the bright green drupes which are ¼ inch across. The tree yields a valuable timber and is a common roadside tree.
For previous introduction see 127868.
- 134216.** *PRUNUS ARMENIACA* L. Amygdalaceae. **Apricot.**
No. 4403.
- 134217.** *PTEROSPERMUM ACERIFOLIUM* (L.) Willd. Sterculiaceae.
No. 4438. From Lahore, Punjab, August 1, 1939. A large attractive tree with large white sweet-scented flowers.
For previous introduction see 116532.
- 134218 to 134230.** *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**
From Australia. Seeds presented by Dr. H. Wenholz, Bureau of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received September 14, 1939.
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| 134218. <i>Black Prince.</i> | 134225. <i>Masterpiece.</i> |
| 134219. <i>Black Wonder.</i> | 134226. <i>New Discovery.</i> |
| 134220. <i>Brown Beauty.</i> | 134227. <i>Pale Dun.</i> |
| 134221. <i>Early Giant.</i> | 134228. <i>Startler Wax.</i> |
| 134222. <i>Epicure.</i> | 134229. <i>Surprise.</i> |
| 134223. <i>General McCoy.</i> | 134230. <i>Tweed Wonder.</i> |
| 134224. <i>Hawkesbury Wonder.</i> | |

134231. GREIGIA SPHACELATA (Ruiz and Pav.) Regel. Bromeliaceae.

From Chile. Seeds presented through Lyman B. Smith, Gray Herbarium of Harvard University, Cambridge, Mass. Received September 20, 1939.

From Valdivia, Valdivia Province. *Chupon*. A bromeliad up to 3 feet high with spiny leaves. The rose-colored flowers, in dense axillary heads, make this a very showy plant. The very seedy fruit is eaten by the natives.

For previous introduction see 35956.

134232 to 134244.

From Australia. Seeds presented by Dr. A. McTaggart, Senior Research Officer, Division of Plant Industry, Council for Scientific and Industrial Research, Canberra. Received September 20, 1939.

134232. ANDROPOGON PERTUSUS (L.) Willd. Poaceae. Grass.

A perennial grass with hairy nodes. It is leafy and productive and spreads by its strong rhizomes. Native to East Africa, where it is found in the Aberdares Mountains up to 9,000 feet altitude.

For previous introduction see 133040.

134233. BROMUS ALBIDUS Bieb. Poaceae. Bromegrass.

For previous introduction see 98276.

134234 and 134235. CHLORIS GAYANA Kunth. Poaceae. Rhodes grass.

For previous introduction see 75308.

134236 and 134237. MEDICAGO SATIVA L. Fabaceae. Alfalfa.

134236. Originally received from Czechoslovakia.

134237. Originally received from Algeria.

134238. MEDICAGO.

Medicago sativa × *M. falcata*. Originally received from New Zealand.

134239 to 134243. GLYCINE MAX (L.) Merrill. Fabaceae. Soybean.

134239. From Lawes, Queensland, Australia (original seed).

134240 and 134241. Originally from Southern Rhodesia.

134242 and 134243. Originally from Capetown, South Africa.

14244. TRIFOLIUM STELLATUM L. Fabaceae. Clover.

An annual upright clover about 1 foot high, native to the Mediterranean region.

For previous introduction see 75530.

134245 and 134246.

From the Union of Soviet Socialist Republics. Seeds presented by the Parc National, Askania-Nova. Received September 27, 1939.

134245. PRUNUS AVIUM L. Amygdalaceae. Mazzard.

134246. PRUNUS MAHALEB L. Mahaleb cherry.

134247. CROSSANDRA INFUNDIBULIFORMIS (L.) Nees. Acanthaceae.

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered in September 1939.

Presented by Col. R. H. Montgomery, Coconut Grove. An evergreen shrub 1 to 3 feet high with opposite, ovate-acuminate leaves and showy beautiful carrot-red (Ridgway) flowers about 2 inches in diameter, in dense 4-sided spikes. It is suitable for growing in beds or pots. Native to India.

134248 to 134283.

From Afghanistan. Seeds collected by Wilbur V. Harlan, collaborator, Bureau of Plant Industry, United States Department of Agriculture. Received September 22, 1939.

134248. *AGROPYRON SQUARROSUM* (Roth) Link. Poaceae. Grass.

No. 70. From Logar Valley, near Kabul, July 13, 1939.

For previous introduction see 109438.

134249. *ALTHAEA ROSEA* (L.) Cav. Malvaceae. Hollyhock.

No. 84.

For previous introduction see 122454.

134250. *ANDROPOGON ISCHAEMUM* L. Poaceae. Grass.

No. 73. From a dry wash above the Logar Valley, July 13, 1939.

For previous introduction see 119617.

134251. *AVENA STERILIS* L. Poaceae. Animated oats.

No. 55. Wild oats.

For previous introduction see 125132.

134252. *BRASSICA* sp. Brassicaceae.

No. 14. June 16, 1939, at 6,000 feet altitude on Pag Man Road, near Kabul.

134253. *BROMUS MADRITENSIS* L. Poaceae. Madrid bromegrass.

No. 74. Collected in a very dry wash above Logar Valley, near Kabul, July 13, 1939.

For previous introduction see 89822.

134254. *CASSIA ABSUS* L. Caesalpiniaceae.

No. 86. An erect annual tropical legume about 2 feet high, with small red-yellow flowers. Native to Egypt and India.

For previous introduction see 103606.

134255. *ELYMUS CAPUT-MEDUSAE* L. Poaceae. Grass.

No. 77. Collected July 13, 1939, in a dry wash above the Logar Valley. An annual grass, native to Europe.

For previous introduction see 111288.

134256. *FESTUCA ELATIORE* L. Poaceae. Meadow fescue.

No. 80. From Kabul.

For previous introduction see 127681.

134257 to 134263. *HORDEUM* spp. Poaceae.

134257. *HORDEUM DISTICHON* var. *PALMELLA* Harlan. Two-rowed barley.

No. 52. From Kabul.

For previous introduction see 129504.

134258 to 134263. *HORDEUM VULGARE* var. *PALLIDUM* Seringe. Six-rowed barley.

From Kabul.

134258. No. 5.

134261. No. 48.

134259. No. 46.

134262. No. 51.

134260. No. 47.

134263. No. 68.

134264. *MALVA NEGLECTA* Wallr. Malvaceae.

No. 83. *Penirag-Kharbazi*. From Kabul. An annual or sometimes a perennial mallow with prostrate or seldom erect stems and bright-rose to white flowers. Allied to *Malva sylvestris*.

134248 to 134283—Continued

134265. *MELICA CILIATA* L. Poaceae. Grass.
No. 71. From Kabul.
For previous introduction see 119658.
134266. *ORYZOPSIS COERULESCENS* (Desf.) Hack. Poaceae. Grass.
No. 72. From a dry wash above the Logar Valley, July 13, 1939.
For previous introduction see 119661.
- 134267 and 134268. *PANICUM MILLIACEUM* L. Poaceae. Broomcorn millet.
Purchased in the bazar at Kabul.
For previous introduction see 122690.
134267. No. 1.
134268. No. 6.
134269. *PHASEOLUS AUREUS* Roxb. Fabaceae. Mung bean.
No. 3. Purchased in the bazar at Kabul.
For previous introduction see 125835.
134270. *PIPER NIGRUM* L. Piperaceae. Black pepper.
No. 24. From the bazar at Kabul.
For previous introduction see 35460.
134271. *PISUM SATIVUM* L. Fabaceae. Pea.
No. 10. From Kabul.
134272. *POLYPOGON MARITIMUS* Willd. Poaceae. Grass.
No. 75. From a dry wash above the Logar Valley, July 13, 1939. A low annual grass with laxly ascending stems not over 1 foot high. Native to the Mediterranean region.
For previous introduction see 61441.
- 134273 to 134276. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.
134273 and 134274. Early apricots, purchased in the Kabul market, but probably grown at Khandahar.
134273. No. 31.
134274. No. 50.
134275. No. 78. From Kabul, July 14, 1939.
134276. No. 79. An assorted collection from Kabul, July 1939.
- 134277 to 134279. *SECALE CEREALE* L. Poaceae. Rye.
From Kabul.
134277. No. 44. 134279. No. 54.
134278. No. 45.
134280. *SOLANUM* sp. Solanaceae.
No. 82. *Saq-angurak-anab-ain-saklab*. From Kabul.
134281. *TRIFOLIUM* sp. Fabaceae. Clover.
No. 49. June 30, 1939. Maidon, on road to Sari-chash-ma at 7,000 feet altitude. A pink clover.
134282. *VICIA ERVILIA* (L.) Willd. Fabaceae. Vetch.
No. 11. From Kabul.
134283. *VITIS VINIFERA* L. Vitaceae. European grape.
No. 81. July 15, 1939. Early grapes, probably from Khandahar.

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