

6981
4p4

Plant Inventory No. 150

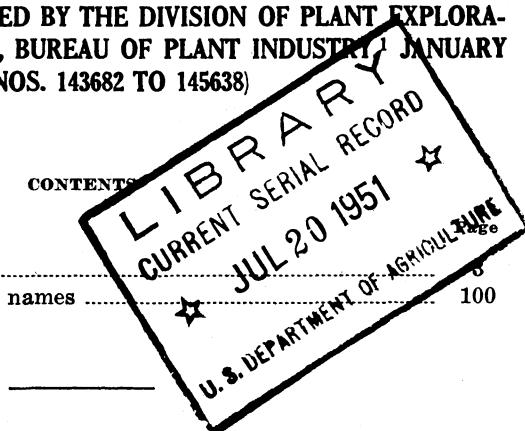
UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D. C. July 1951.



PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY,¹ JANUARY 1 TO DECEMBER 31, 1942 (NOS. 143682 TO 145638)

Inventory
Index to common and scientific names
100



This inventory, No. 150, lists the plant material (Nos. 143682 to 145638) received by the Division of Plant Exploration and Introduction during the period from January 1 to December 31, 1942. 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.

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

INVENTORY

143682. LITCHI CHINENSIS Sonner (*Nephelium litchi* Cambess.).
Sapindaceae. *Lychee.*

From Florida. Plants presented by Dr. G. W. Groff, De Soto City. Received January 19, 1942.

Grown from seeds obtained from a tree of the "Brewster" variety.

For previous introduction see 142167.

143683 and 143684. SOLANUM TUBEROSUM L. Solanaceae. *Potato.*

From Scotland. Tubers purchased from the Scottish Plant Breeding Station, Scottish Society for Research in Plant Breeding, Craigs House, Corstorphine, Edinburgh. Received January 14, 1942.

143683. Shamrock. Red tubers.

143684. Southesk. White, spotted blue-purple tubers.

143685. EUCALYPTUS sp. Myrtaceae.

From Tasmania. Seeds presented by Miss C. M. Young, Fetteresso, East Devonport. Received December 12, 1942.

143686 and 143687.

From California. Seeds presented by W. T. Swingle, Bureau of Plant Industry, United States Department of Agriculture. Received January 14, 1942.

143686. CITRUS AURANTIUM var. MYRTIFOLIA Ker. Rutaceae.

Chinotto. From the Stock Test Plot, Citrus Experiment Station, Riverside.

143687. EREMOCITRUS × CITRUS. Rutaceae.

143688 to 143693. SINOCALAMUS BEECHEYANUS (Munro) McClure.
Poaceae.

From Florida. Presented by S. G. Capman, Miami, through T. B. McClelland, Plant Introduction Garden, Coconut Grove. Numbered January 15, 1943.

A series of seedlings collected under a clump of this bamboo grown from a plant under P.I. 64054, furnished originally by this Division to Dr. J. Petersen, near Homestead, Fla.

143688. 143691.

143689. 143692.

143690. 143693.

143694. SOLANUM QUITOENSE Lam. Solanaceae. *Naranjilla.*

From Ecuador. Seeds presented by R. B. Harvey, Professor of Plant Physiology, University of Minnesota, St. Paul. Received January 12, 1942.

Collected near Baños.

For previous introduction see 141547.

143695. CENTELLA ASIATICA (L.) Urban. Apiaceae.

From India. Seeds purchased from the Royal Botanic Gardens, Sibpur, Calcutta, through J. G. Ramchandani, Agricultural Research Station, Sakrand, Sind. Received January 14, 1942.

For previous introduction see 142350.

143696. PRIONOPHYLLUM MARITIMUM (Baker) Mez.

Bromeliaceae.

From Brazil. Seeds presented by J. Eugenio, S. J., Rio Grande do Sul, through R. G. Atkinson, Leucadia, California. Received January 22, 1942.

From Monte Zimmer, near Estaçao Capela, April 1941.

143697. ZEA MAYS L. Poaceae.

Corn.

From Straits Settlements. Seeds presented by the Botanic Gardens, Singapore. Received January 29, 1942.

Collected in central-southern Thailand by F. Kingdon Ward in 1941.

143698. LUFFA ASTORI Svenson. Cucurbitaceae.

From Peru. Seeds collected by B. Y. Morrison, Bureau of Plant Industry, United States Department of Agriculture. Received February 8, 1942.

143699. CITRUS RETICULATA Blanco. Rutaceae.

From California. Seeds presented by W. T. Horne, Pathologist, Citrus Experiment Station, Riverside. Received February 5, 1942.

Mandarin orange from Mr. Horne's home garden.

143700 to 143702.

From Peru. Bulbs collected by Cesar Vargas C., Cuzco. Received January 5, 1942.

From Quebrada Matara, Abancai, Apurimac, at altitudes of 2,400 to 2,800 m.

143700. AMARYLLIS sp. Amaryllidaceae.**143701. STENOMESSON sp. Amaryllidaceae.****143702. ZEPHYRANTHES TUBIFLORA (L'Her.) Schinz.****143703 and 143704.**

From Colombia. Seeds presented by Dr. David Fairchild, Coconut Grove, Fla. Received October 31, 1941.

143703. PASSIFLORA LIGULARIS Juss. Passifloraceae. Sweet granadilla.

No. 1088. Said to have large fruits of excellent quality.

143704. SALVIA sp. Lamiaceae.

No. 1095. Road to Choconta, 80 km. from Bogotá, September 22, 1941. Plant 6 feet or more high, with purple-brown stems and deep-red flowers.

143705 and 143706. SACCHARUM. Poaceae.

Sugarcane.

From the British West Indies. Cuttings presented by Dr. A. E. McIntosh, Department of Agriculture, Barbados. Received January 6, 1942.

143705. B. 3439.**143706. B. 35187.****143707 to 143709. PISTACIA VERA L. Anacardiaceae. Pistachio.**
Plants growing at United States Plant Introduction Garden, Chico, Calif. Numbered January 7, 1942.**143707. Selection (OR13 T19) from P.I. 80454.****143708. Selection (OR10 T21) from P.I. 86372.****143709. Selection (OR10 T27) from P.I. 86372.**

For previous introduction see 137710.

143710. EUCALYPTUS ROBUSTA J. E. Smith. Myrtaceae.

From Australia. Seeds presented by Prof. Cyril T. White, Botanic Gardens, Brisbane. Received December 30, 1941.

Brown Gum. A handsome, symmetrically branched tree of moderate height, with bark of trunk persistent, rough, dark brown, and that of the branches reddish. The wood is said to be somewhat brittle.

For previous introduction see 141857.

143711. EUPHORBIA LANCIFOLIA Schlecht. Euphorbiaceae.

From Guatemala. Plants presented by Dr. Luis Gaitán, Assistant Surgeon General of Public Health, Guatemala. Received January 8, 1942.

Ixbut. A fleshy plant with broadly lanceolate, dark-green leaves about 3 inches long and inconspicuous small flowers in terminal and axillary cymes. Native to southern Mexico.

For previous introduction see 100368.

143712. CRUSEA VIOLACEA Neuman. Rubiaceae.

From Florida. Seeds presented by Dr. L. M. Simonson, Lake Alfred. Received January 9, 1942.

A sprawling herbaceous perennial with stems rooting easily where they touch the ground, velvety ovate or lanceolate leaves, and numerous light-purple flowers in October and early November. The plant is reported to make an attractive ground cover at Lake Alfred. Native to Mexico.

143713 to 143732.

From England. Seeds purchased from Major F. C. Stern, Hightown, Goring-by-Sea, Sussex. Received January 14, 1945.

143713. ACER GRISEUM (Franch.) Pax. Aceraceae. Maple.

A handsome maple up to 30 feet high, native to western China. The coarsely toothed, trifoliate leaves are 1 to 2 inches long. The striking feature of this maple is the cinnamon-brown, papery bark that flakes off like that of the river birch.

For previous introduction see 135655.

143714. BERBERIS JAMESIANA Forr. & W. W. Smith. Berberidaceae. Barberry.**143715. CARPINUS TURCZANINOVII Hance.** Betulaceae.

A hardy shrubby tree with oval, sharp-pointed leaves 1 to 2 inches long. It is said to resemble *Carpinus polyneura*. Native to Hopei Province, China.

For previous introduction see 116120.

143716. CLEMATIS MACROPETALA Ledeb. Ranunculaceae.**143717. COTONEASTER CONSPICUA Comber.** Malaceae.**143718. COTONEASTER WARDII W. W. Smith.**

A deciduous shrub 5 to 8 feet high, with ovate, acute-mucronate leaves more than an inch long, densely, silvery tomentose beneath. The white flowers, in small corymbs, are followed by fruits of a bright sealing-wax red.

For previous introduction see 102213.

143719. EUONYMUS GRANDIFLORUS f. SALICIFOLIUS Staph. Celastraceae.**143720. MAGNOLIA SINENSIS X WILSONII.** Magnoliaceae.**143721 to 143730. PAEONIA spp.** Ranunculaceae. Péony.**143721. PAEONIA CORALLINA Retz.**

Received as *P. cambessedesii*, now referred to as above.

143713 to 143732—Continued.**143722. PAEONIA DELAVAYI** Franch.

A very attractive, vigorous shrub 4 feet high, with deep-crimson flowers 3 inches in diameter.

For previous introduction see 105671.

143723. PAEONIA EMOJI Wall.

A peony up to 2 feet high, with ternatisect leaves 6 to 12 inches long and white flowers. Native to the temperate Himalayas.

For previous introduction see 122904.

143724. PAEONIA EMOJI Wall.

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

143725. PAEONIA MLOKOSIEWITSCHI Lomakin.

A herbaceous peony with dark bluish-green biuncate leaves with red nerves and margins of yellow flowers 4 to 5 inches in diameter, which have numerous stamens and purple stigmas. This peony, considered the handsomest of the yellow-flowered forms, is native to the central Caucasus.

For previous introduction see 90639.

143726. PAEONIA WILLMOTTIAE Stapf.**143727. PAEONIA VEITCHII** Lynch.

A herbaceous peony, native to western China, about 2 feet high, with shining light-green leaves and purple-crimson flowers about 4 inches across.

For previous introduction see 103391.

143728. PAEONIA VEITCHII Lynch.

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

143729. PAEONIA WITTMANNIANA var. **TOMENTOSA** Lomak.**143730. PAEONIA WITTMANNIANA** Lindl.

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

143731. ROSA. Rosaceae.

Introduced under the name "highdownensis," for which a proper place of valid publication has not been found. Said to be a hybrid of *Rosa moyesii*.

143732. STAPHYLEA HOLOCARPA var. **ROSEA** Rehd. & Wils. Staphyleaceae.

A Chinese shrub or small tree up to 30 feet high, with trifoliolate leaves, slender panicles of pink flowers, and pear-shaped, bladdery fruits about 2 inches long.

For previous introduction see 76058.

143733 to 143738.

From Asia. Seeds collected by Dr. Jill Cossley-Batt, New York. Received January 22, 1942.

Collected in Kampa Dzong, Tibet, unless otherwise specified.

143733. CANAVALIA sp. Fabaceae.**143734. CROTON** sp. Euphorbiaceae.**143735. JATROPHA CURCAS** L. Euphorbiaceae.

For previous introduction see 107473.

143733 to 143738—Continued.

143736. *SOLANUM* sp. Solanaceae.143737. *TERMINALIA* sp. Combretaceae.

143738. (Undetermined.)

From Nepal.

143739 to 143743. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

From Maryland. Scions presented by the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received September 10, 1940, Numbered January 1942.

143739. *Dixie Gold.*143742. *Roberta.*143740. *Fairs Beauty.*143743. *Sun Glow.*143741. *Hiley.*143744 to 143753. *ORYZA SATIVA* L. Poaceae.

Rice.

From Liberia. Seeds obtained through the Firestone Plantations Co., Monrovia. Received February 5, 1942.

143744. *Bonggah.*143749. *Djubuh.*143745. *Bujuh.*143750. *Djubukly.*143746. *Djau.*143751. *Mauntok.*143747. *Djaüh.*143752. *Saiufe.*143748. *Djoweh.*143753. *Yupul.*143754 to 143761. *SOLANUM ANDIGENUM* Juzepczuk & Bukasov.
Solanaceae.

From Peru. Tubers presented by the Estación Experimental Agrícola de La Molina, Lima. Received February 6, 1942.

143754. *Chata Blanca No. 2.*143758. *Chata Blanca de Tarma.*143755. *Chata Blanca No. 3.*143759. *Colorado.*143756. *Chata Blanca No. 4.*143760. *Maco.*143757. *Chata Blanca No. 6.*143761. *Redonda Y.*143762. *SACCHARUM*. Poaceae.

Sugarcane.

From Puerto Rico. Seeds presented by the Estación Experimental Agrícola, Rio Piedras. Received February 6, 1942.

P.O.J. 2725 X 31-962.

143763. *TRACHYCARPUS EXCELSUS* (Thunb.) Wendl. Phoenicaceae.
Windmill palm.

From Georgia. Seeds presented by Mrs. E. D. Richardson, Hawkinsville. Received February 9, 1942.

143764. *CITRUS PARADISI* × *PONCIRUS TRIFOLIATA*. Rutaceae.
Citrumelo.

From Arizona. Seeds presented by the United States Field Station, Sacaton. Received February 9, 1942.

C.P.B. 4554-A (Row G, tree 39).

143765 to 143778. EUCALYPTUS spp. Myrtaceae.

From Australia. Seeds presented by the Sub-Department of Forestry, Department of Agriculture, Brisbane, Queensland. Received February 12, 1942.

143765. EUCALYPTUS CAMALDULENSIS Dehnh. (*E. longirostris* F. Muell.)

A tall Australian tree up to 200 feet high, with smooth, dark-gray bark, narrowly lanceolate leaves 6 inches or more long, stalked umbels of small flowers attractive to bees, and globular fruits with conical tops. The heavy, red wood is durable both above and below the ground and is used for railroad ties, piles, and fence posts.

For previous introduction see 141838.

143766. EUCALYPTUS CITRIODORA Hook.

For previous introduction see 141826.

143767. EUCALYPTUS CLOEZIANA F. Muell.**143768. EUCALYPTUS GUMMIFERA (Gaertn.) Hochr. (*E. corymbosa* J. E. Smith)**

A medium-sized evergreen tree native to Australia, with leathery, lanceolate leaves and large corymbs of fragrant yellowish-white flowers.

For previous introduction see 141827.

143769. EUCALYPTUS MACULATA Hook.

Spotted gum.

143770. EUCALYPTUS MICROCORYS F. Muell.

A tall tree with persistent, wrinkled bark; thin, broadly lanceolate leaves; and small white flowers. The yellowish timber is especially useful for ballroom floors because of its greasy nature. Native to Australia.

For previous introduction see 141842.

143771. EUCALYPTUS PANICULATA J. E. Smith.

For previous introduction see 141847.

143772. EUCALYPTUS PILULARIS J. E. Smith.

Blackbutt.

A slender tree 100 to 150 feet high, with a trunk diameter of 3 to 5 feet. It is considered excellent for timber, especially for fence posts and telegraph poles. The honey from the flowers is reported to be of especially good quality. In California the tree grows well near the coast but does not thrive in the dry, hot interior valleys.

For previous introduction see 141850.

143773. EUCALYPTUS RACEMOSUS Cav.

Mahogany gum.

A large tree with rough, reddish, fibrous bark persistent to the small branches. The heavy timber is a rich red and is said to be strong and durable. Because of the color the tree is also called "red mahogany."

For previous introduction see 141856.

143775. EUCALYPTUS SALIGNA J. E. Smith.

A tall tree with silvery-gray bark, native to New South Wales. The narrowly lanceolate leaves are 5 to 6 inches long, and the clusters of four to eight white flowers are on short peduncles.

For previous introduction see 141859.

143776. EUCALYPTUS STAIGERIANA F. Muell.

A tree of medium size with oval or narrow, blue-green leaves covered with numerous oil dots. The foliage of this tree yields a large quantity of oil, equal in fragrance to that of lemons, for which it is an agreeable substitute. The proportion of oil obtained from dry leaves is 2½ percent; the

143765 to 143778—Continued.

specific gravity of the oil is 0.901.

For previous introduction see 56147.

143777. EUCALYPTUS TRACHYPHLOIA F. Muell.

A medium-sized tree, native to Queensland, with dark-gray, rugged bark, falcate-lanceolate leaves 4 to 6 inches long, and terminal panicles of small flowers.

For previous introduction see 75654.

143778. EUCALYPTUS TRIANTHA Link (*E. acmenioides* Schau.).

For previous introduction see 141821.

143779 to 143784. TRITICUM spp. Poaceae. Wheat.

From India. Seeds presented by the Cereal Breeding Station, Niphad, Nasik District, Bombay Province. Received January 29, 1942.

143779. TRITICUM sp.

Bansi 224.

143780. TRITICUM sp.

Bansi 168.

143781. TRITICUM sp.

Bansi Palli 808.

143782. TRITICUM sp.

Niphad 31.

143783. TRITICUM sp.

Niphad 81.

143784. TRITICUM sp.

Niphad 567.

143785. CARICA PAPAYA L. Papayaceae. Papaya.

From Brazil. Seeds presented by Alfredo de Araujo Santos Neto, Recife, Pernambuco. Received February 10, 1942.

143786. GARDENIA TUBIFERA Wall. Rubiaceae.

From Straits Settlements. Seeds presented by the Botanic Gardens, Singapore. Received February 24, 1942.

143787. SALACIA sp. Hippocrateaceae.

From Celebes. Seeds collected by Dr. David Fairchild, Coconut Grove, Fla. Received March 19, 1940.

From Peore, Posso. An attractive vine with oblong, acuminate, glossy, dark-green leaves about 5 inches long; inconspicuous greenish flowers; and globular, lacquer-red fruits 1 inch in diameter in small axillary clusters.

143788 to 143790.

From Peru. Seeds presented by Cesar Vargas C., Cuzco. Received February 20, 1942.

143788. CROCOPSIS FULGENS Pax. Amaryllidaceae.**143789. STENOMESSON PEARCEI Baker. Amaryllidaceae.****143790. STENOMESSON VARIEGATUM (Ruiz & Pav.) Macbr.**

143791. CITRUS sp. Rutaceae.

From Cuba. Budsticks presented by Thomas R. Towns, Holguin. Received February 24, 1942.

A seedless, thornless lime, originally obtained from Dr. P. H. Rolfs in Viçosa, Minas Gerais, Brazil.

143792 to 143794.

From India. Seeds presented by the Royal Botanic Garden, Sibpur, near Calcutta, through the Instituto Agronómico, Campinas, Brazil. Received March 5, 1942.

143792. CINCHONA OFFICINALIS L. Rubiaceae.

No. 63 - I. 5229.

For previous introduction see 142195.

143793 and 143794. CINCHONA PUBESCENTS Vahl (*C. succirubra* Pav.).

143793. No. 64 - I. 5230.

143794. No. 62 - I. 5228.

143795. ILEX CORNUTA Lindl. and Paxt. Aquifoliaceae.

Chinese holly.

From Louisiana. Cuttings presented by E. A. McIlhenny, Avery Island. Received February 6, 1942.

Rotunda. A variety that develops a compact, rounded habit.

143796 to 143799. CARICA PAPAYA L. Papayaceae. Papaya.

From Peru. Seeds purchased from Teodoro Boza Barducci, Departamento de Investigaciones de Algodón y Cereales, Estación Experimental Agrícola de la Molina, Lima. Received March 5, 1942.

143796. No. 4. Fruit round.

Nos. 143797 to 143799 were grown at sea level.

143797. No. 1.

143798. No. 2.

143799. No. 3.

143800. AMARYLLIS sp. Amaryllidaceae.

From Peru. Bulbs presented by Cesar Vargas C., Cuzco. Received March 9, 1942.

Bulbs collected at Huallpa Huaicco, District of Huanoquite, Province of Paruro, Department of Cuzco, January 16, 1942. Flowering begins in November and ends during December.

143801 and 143802.

From Java. Seeds presented through W. A. Davidson, Agricultural Marketing Service, United States Department of Agriculture. Received March 16, 1942.

143801. CALOPOGONIUM MUCUNOIDES Desv. Fabaceae.

A small tropical-American vine with pale-blue flowers. It forms a mat of foliage 1 to 2 feet thick and is used as a cover crop.

For previous introduction see 136165.

143802. PUERARIA PHASEOLOIDES (Roxb.) Benth. Fabaceae.

For previous introduction see 137643.

143803 and 143804.

From North Carolina. Scions and plants purchased from F. J. LeClair, Soil Conservation Service, Chapel Hill. Received March 17, 1942.

143803. LIQUIDAMBAR STYRACIFLUA f. ROTUNDILOBA Rehd. Hamamelidaceae.
Scions.

143804. PHOTINIA VILLOSA f. MAXIMOWICZIANA (Lévl.) Rehd. Malaceae.
Plants.

143805 to 143808. ZEA MAYS L. Poaceae. Corn.

From Brazil. Ears collected by Dr. Albert O. Rhoad, Iberia Livestock Farm, Jeanerette, Louisiana. Received March 18, 1942.

143805. No. 2. White Dent. Collected near Estrela.

143806. No. 3. Yellow Dent (small ears). Collected near Estrela.

143807. No. 4. Yellow Dent (large ears). Collected near Taugary.

143808. No. 1. Yellow Flint. Collected near Marata.

143809 to 143826.

From Venezuela. Seeds presented by D. C. Langham, Ministry of Agriculture, Caracas. Received March 20, 1942.

143809. GOSSYPIUM sp. Malvaceae.

"Wild cotton from Venezuela."

143810 to 143826. ZEA MAYS L. Poaceae. Corn.

143810. 41-78. S. 3 Acarigua.

143811. 41-165. S. 2 Acarigua.

143812. 41-174. S. 2 Avaria.

143813. 41-53. S. 2 Cuba.

143814. 41-63. S. 3 Cuba.

143815. 41-74. S. 3 Cuba.

143816. 41-84. S. 3 Cuba.

143817. 41-114. S. 4 Cuba.

143818. 41-682. S. 4 Cuba.

143819. 41-702. S. 4 Cuba.

143820. 41-705. S. 4 Cuba.

143821. 41-736. S. 4 Cuba.

143822. 41-804. S. 4 Cuba.

143823. 41-308. F₄ (Cuban × Huevito).

143824. 41-37. Mayorbella (from Puerto Rico, inbred 3 generations in Venezuela).

143825. 41-210. S. 2 Ministerio.

143826. 41-232. S. 2 San Carlos.

143827 and 143828. AMYGDALUS PERSICA L. Amygdalaceae.

Peach.

From New Jersey. Trees presented by M. A. Blake, Agricultural Experiment Station, New Brunswick. Received March 20, 1942.

143827. Midway.

143828. N. J. 109.

143829 to 143837.

From Australia. Seeds presented by F. H. Baker, Richmond, Victoria. Received March 20, 1942.

143829 to 143834. ACACIA spp. Mimosaceae.**143829. ACACIA DECORA Reichenb.**

A shrub with spatulate phyllodes 2 inches long and numerous rachemes made up of globular heads of small yellow flowers. Native to Queensland, Australia.

For previous introduction see 90839.

143830. ACACIA FALCATA Willd.

An evergreen tree 20 to 30 feet high, with few slender branches and small yellow flowers in dainty spherical clusters on racemes borne in the axils of the dark-green, glossy, falcate leaves. The timber is hard, heavy, and tough.

For previous introduction see 106678.

143831. ACACIA HOWITTI F. Muell.

A shrub, often 15 feet high, with flexible branchlets, bearing curved, lanceolate, dark-green phyllodes and axillary clusters of small yellow flower heads.

For previous introduction see 130691.

143832. ACACIA MYRTIFOLIA Willd.

A tall shrub with angular branchlets and ovate phyllodes edged with pink, and heads of rather large yellow flowers in racemes. Native to Australia.

For previous introduction see 130692.

143833. ACACIA OXYCEDRUS DC.**143834. ACACIA SUAVEOLENS (J. E. Smith) Willd.**

An Australian shrub up to 6 feet high, with linear to lanceolate phyllodes and small heads of yellow flowers in axillary racemes.

For previous introduction see 106692.

143835. ANGOPHORA SUBVELUTINA F. Muell. Myrtaceae.**143836. CALLITRIS ROBUSTA (A. Cunn.) R. Br. (*Frenela robusta* A. Cunn.) Pinaceae.**

Cypress-pine.

For previous introduction see 140012.

143837. SYZYGIUM SMITHII (Poir) Niedenzu (*Eugenia smithii* Poir.) Myrtaceae.

An evergreen tree, sometimes 80 to 120 feet in height, with ovate or lanceolate leaves 2 to 3 inches long. The small, white, purplish-tinted fruits are produced in profusion, are acidulous and wholesome, and are eaten by the natives. Native to eastern Australia.

For previous introduction see 34312.

143838. PENSTEMON HAYDENI S. Wats. Scrophulariaceae.

From Nebraska. Seeds presented by Glenn R. Viehmeyer, Superintendent, Niobrara State Park, Niobrara. Received March 31, 1942.

A plant 10 to 15 inches tall, with dense spikes of showy bright-blue flowers, and bluish-green, lanceolate leaves.

143839. GOSSYPIUM. Malvaceae.

Cotton.

From Algeria. Seeds presented by Robert D. Murphy, Counselor of the American Embassy, Algiers. Received March 24, 1942.

143840 to 143845. ALEURITES spp. Euphorbiaceae.

From Florida. Seeds presented by Walter T. Swingle, Washington, D. C.
Received March 24, 1942.

143840. ALEURITES FORDII Hemsl.

Tung tree.

For previous introduction see 142297.

143841. ALEURITES MOLUCCANA (L.) Willd. (*A. triloba* Forst.) Candlenut.

A tropical spreading tree native to the East Indies; closely related to the tung-oil tree.

For previous introduction see 74226.

143842 to 143844. ALEURITES MONTANA (Lour.) Wilson.

Mu-oil tree.

143842. 1-A. Abrasin. From a very large tree.**143843. SM-8-1.** From a single tree (h).**143844. SM-7-1, SM-8-1.** Mixed seeds from two trees growing near each other (g and h).**143845. ALEURITES TRISPERMA Blanco.**

Soft lumbang.

A Philippine tree 30 to 50 feet high, with heart-shaped leaves and rounded, 3-angled fruits about 2 inches in diameter. The oil obtained from the seeds resembles tung oil, but is somewhat slower in drying.

For previous introduction see 124511.

143846. LIQUIDAMBAR STYRACIFLUA f. ROTUNDILOBA Rehd.

Hamamelidaceae.

From North Carolina. Plants presented by F. J. LeClair, Soil Conservation Service, Chapel Hill. Received March 17, 1942.

143847 to 143858. LYCOPERSICON ESCULENTUM Mill. Solanaceae.

Tomato.

From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received March 26, 1942.

143847. *F. Ovali* (Italy).**143848. No. 12. *Ovali* (Italy).****143849. *Pomodori No. 6* (Italy).****143850. *Potentate*.****143851. *Potentate Improved*.****143852. *Potentate* × *Kondine*.****143853. No. 2. *Rotundi piccoli* (Italy).****143854. *Rouge de Marmande*.****143855. *San Marzano* (Italy).****143856. *Sans Pareil*.****143857. *Vetomold*.****143858. *Victor Emanuel* (Italy).****143859. EUPHORBIA sp. Euphorbiaceae.**

From Mexico. Cuttings presented by F. Treppiedi, Jr., Chilpancingo, Guerrero. Received March 27, 1942.

143860. EUCLYPTUS WATSONIANA F. Muell. Myrtaceae.

From Australia. Seeds presented by C. T. White, Government Botanist, Department of Agriculture and Stock, Brisbane, Queensland. Received March 25, 1942.

Collected by H. G. Simmons, Exhibition Range, November 1941.

143861 to 143870. MEDICAGO spp. Fabaceae.

From Australia. Seeds presented by J. R. A. McMillan, Council for Scientific and Industrial Research, Canberra City. Received March 20, 1942.

143861 and 143862. MEDICAGO CILIARIS (L.) All.

Medic.

An annual that grows on the coast and up to 800 m. above sea level in various parts of Asia. It has squarish leaflets and yellow flowers about one-third of an inch long, in few-flowered clusters or solitary, and hairy, coiled pods.

143861. MC1-1. Originally from Palestine.

143862. MC1-5. Originally from Portugal.

For previous introduction see 44558.

143863 and 143864. MEDICAGO INTERTEXTA (L.) Mill.

143863. MIn-5. Originally from Leningrad.

143864. MIn-9. Originally from Sweden.

143865 and 143866. MEDICAGO PRAECOX DC.

143865. MPr-2. Originally from Temora, New South Wales.

143866. MPr-5. Originally from Kalgoorlie, West Australia.

For previous introduction see 120034.

143867 and 143868. MEDICAGO RUGOSA Desr.

143867. MRu-5. Originally from Portugal.

143868. MRu-4. Originally from Portugal.

For previous introduction see 34148.

143869 and 143870. MEDICAGO SCUTELLATA (L.) Mill.

143869. MSc-25. Originally from Lawes, Queensland.

143870. MSc-30. Originally from Leyden, Netherlands.

For previous introduction see 126485.

143871 to 143875.

From Colombia. Seeds presented by William A. Kyburz, Cali. Received March 24, 1942.

143871. CANAVALIA ENSIFORMIS (L.) DC. Fabaceae.

Jackbean.

No. 1. Large, round, white bean.

143872. CANAVALIA GLADIATA (Jacq.) DC.

Swordbean.

No. 2. Very large, light-purple bean known as "frijol matahormiga" (ant-killing bean).

143873 and 143874. DOLICHOS LABLAB L. Fabaceae.

Hyacinth-bean.

143873. No. 4. Flowers white, in upright racemes; pods rather flat, containing 2 to 4 beans. Vine prolific and long-lived, beans edible.

143874. No. 5. Similar to 143873, but with pods somewhat larger and broader, and larger beans, also edible.

143875. PHASEOLUS LUNATUS L. Fabaceae.

Lima bean.

No. 3. *Frijol cacho*. Vine prolific and long-lived; pods short, fat, hard, containing 2 to 4 beans; flower very small.

143876. CAPSICUM FRUTESCENS L. Solanaceae.

Redpepper.

From Ecuador. Seeds collected by W. R. Schreiber, Office of Foreign Agricultural Relations, United States Department of Agriculture. Received March 31, 1942.

From Manabi Province.

143877. EUCALYPTUS WANDOO Blakely (*E. redunca* var. *elata* Benth.) Myrtaceae.

From Western Australia. Seeds presented by C. A. Gardner, Government Botanist, Perth. Received March 8, 1942.

143878. LUFFA AEGYPTIACA Mill. Cucurbitaceae.
Suakwa towelgourd.

From Puerto Rico. Seeds presented by J. A. B. Nolla, Director, Agricultural Experiment Station, University of Puerto Rico, Rio Piedras. Received April 14, 1942.

Collected by Luis A. Alvarez. The plant grows as a volunteer near houses and along fences.

143879. GOSSYPIUM RAIMONDII Ulbrich. Malvaceae. Cotton.

From Peru. Seeds presented by Bruce Griffing, Estación Experimental Agrícola de la Molina, Lima. Received April 16, 1942.

For previous introduction see 137774.

143880. ALBIZZIA CHINENSIS (Osbeck) Merr. Mimosaceae.

From Florida. Seeds presented by Dr. L. M. Simonson, Lake Alfred. Received April 21, 1942.

A large, rapid-growing tree, native to the subtropical regions of India.

For previous introduction see 134173.

143881. TRIFOLIUM PRATENSE L. Fabaceae. Red clover.

From Canada. Seeds purchased from Leslie Keen, Jarvis, Ontario. Received April 21, 1942.

143882 and 143883.

From Canada. Scions presented by G. H. Corsan, Echo Valley, Islington, Ontario. Received April 23, 1942.

143882. CARYA OVATA (Mill.) K. Koch. Juglandaceae. Shagbark hickory.

Neilson hickory. A true shagbark; the nuts are very large and have a thin shell that cracks easily. The tree is 70 feet tall with a spread of 35 feet and withstands a temperature of -40° F.

For previous introduction see 128163.

143883. JUGLANS NIGRA L. Juglandaceae.

Black walnut.

Troup black walnut.

For previous introduction see 141742.

143884 and 143885. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From Canada. Scions presented by the Agricultural Experiment Station, Summerland, British Columbia. Received April 23, 1942.

143884. Jubilee.

143885. Spartan.

143886. CAPSICUM FRUTESCENS L. Solanaceae. Redpepper.

From Puerto Rico. Seeds presented by Arturo Roque, Agricultural Experiment Station, University of Puerto Rico, Rio Piedras, through Bonney Youngblood, Office of Experiment Stations, United States Department of Agriculture. Received April 13, 1942.

Thick-fleshed, hot pepper; originally from Mexico.

143887. PISUM SATIVUM L. Fabaceae. Pea.

From Mexico. Seeds presented by F. W. Smith, Guasave, Sinaloa. Received April 18, 1942.

143888 to 143894. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From Canada. Scions and trees received from Dr. M. B. Davis, Central Experiment Station, Ottawa. Received April 24, 1942.

143888. *Angus.*143892. *Elmer.*143889. *Atlas.*143893. *Gretna.*143890. *Bancroft.*143894. *Red Melba.*143891. *Bingo.***143895 to 143898.**

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley. Received April 13, 1942.

143895. *ACACIA DETINENS* Burchell. Mimosaceae.

A thorny shrub or small tree, with small bifoliolate leaves and showy globular heads of small yellow flowers. Native to South Africa.

For previous introduction see 111228.

143896. *ARISTIDA OBTUSA* Delile. Poaceae.

Grass.

143897. *CHLORIS GAYANA* Kunth. Poaceae.

Rhodes grass.

Grown at Langholm Estates, West Grahamstown, Cape Province.

For previous introduction see 134402.

143898. *TARCHONANTHUS MINOR* Less. Asteraceae.

A resin-scented shrub up to 7 feet high, with attractive woolly flower heads. It is drought-resistant, and is excellent stock feed.

For previous introduction see 134745.

143899 and 143900.

From Puerto Rico. Seeds presented by H. T. Cowles, Professor of Horticulture, University of Puerto Rico, Rio Piedras. Received April 16, 1942.

143899. *CASSIA MULTIJUGA* L. Rich. Caesalpiniaceae.

A small ornamental tree, with compound leaves made up of linear leaves about $\frac{1}{2}$ inch long, and large yellow flowers followed by flat glabrous pods 6 inches long and less than an inch wide. It is native to tropical America.

For previous introduction see 108568.

143900. *LIBIDIBIA PUNCTATA* (Willd.) Britton. Caesalpiniaceae.

143901. *PALANDRA AEQUATORIALIS* (Spruce) O. F. Cook (*Phytelephas aequatorialis* Spruce). Phoenicaceae. Ivory palm.

From Ecuador. Fruits presented by W. R. Schreiber, Office of Foreign Agricultural Relations, United States Department of Agriculture. Received April 28, 1942.

143902. *TABEBUIA SERRATIFOLIA* (Vahl) Nicholson. Bignoniaciae.

From Cuba. Seeds presented by the Atkins Institution of the Arnold Arboretum, Cienfuegos. Received April 28, 1942.

An evergreen tree, native to the West Indies, with digitately compound leaves made up of 4 or 5 oblong-ovate leaflets, 3 to 5 inches long, and terminal panicles of yellow, funnel-formed flowers.

For previous introduction see 132451.

143903. *CITRUS* sp. Rutaceae.

From Cuba. Budsticks presented by Thomas R. Towns, Holguin. Received April 29, 1942.

143903—Continued.

"Budsticks cut from behind a fruit that was entirely seedless, and while not over 1 inch in diameter, it was very much like the West Indian Cuban lime in flavor." (Towns.)

143904. AMYGDALUS PERSICA L. Amygdalaceae. **Peach.**

From Maryland. Trees presented by the Bountiful Ridge Nurseries, Princess Anne. Received April 30, 1942.

Colora.

143905. AMYGDALUS PERSICA L. Amygdalaceae. **Peach.**

From Michigan. Trees presented by the Ackerman Nursery, Bridgman. Received April 30, 1942.

Fertile Hale.

143906 and 143907. AMYGDALUS PERSICA L. Amygdalaceae. **Peach.**

From Missouri. Trees presented by Stark Bros. Nursery, Louisiana. Received April 30, 1942.

143906. Golden Elberta.

143907. Halate.

143908 and 143909. AMYGDALUS PERSICA L. Amygdalaceae. **Peach.**

From Delaware. Trees presented by the Bunting Nurseries, Selbyville. Received April 30, 1942.

143908. O'Boy.

143909. Redelberta.

143910. AMYGDALUS PERSICA L. Amygdalaceae. **Peach.**

From Michigan. Trees presented by the Ackerman Nursery, Bridgman. Received April 30, 1942.

Redhaven.

143911 and 143912.

From Missouri. Trees presented by the Stark Bros. Nursery, Louisiana. Received April 30, 1942.

143911. AMYGDALUS PERSICA L.

World's Earliest.

143912. AMYGDALUS PERSICA var. NECTARINA Ait. **Nectarine.**

Flaming Gold.

143913. AMYGDALUS PERSICA var. NECTARINA Ait.

From Maryland. Trees presented by the Bountiful Ridge Nurseries, Princess Anne. Received April 30, 1942.

Rubired.

143914. LUFFA AEGYPTIACA Mill. (*L. cylindrica* (L.) Roemer).

Cucurbitaceae. **Suakwa towelgourd.**

From the British West Indies. Seeds presented by F. B. Pidduck, Agricultural Department, Dominica. Received April 22, 1942.

143915. LUFFA AEGYPTIACA Mill. Cucurbitaceae.

Suakwa towelgourd.

From Cuba. Seeds presented by D. Fortún, Estación Experimental Agronómica, Santiago de las Vegas. Received April 29, 1942.

Japonesa.

143916. GOSSYPIUM TOMENTOSUM Nutt. Malvaceae. Cotton.

From Trinidad. Seeds presented by Dr. J. B. Hutchinson, Genetics Department, Cotton Research Station. Received May 2, 1942.

C.B. 1440.

143917 to 143920. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From Canada. Trees purchased from the Wallace Nurseries, Island Park, Portage La Prairie, Manitoba. Received May 4, 1942.

143917. Charlamoff.

143919. Spangelo.

143918. Gertrude.

143920. Wallace Hybrid.

143921. DURIO ZIBETHINUS Murr. Bombacaceae. Durian.

From Florida. Plant presented by S. J. Lynch, Subtropical Experimental Station, Homestead, Received March 28, 1942.

143922 to 143950.

From Australia. Seeds collected by A. Murphy, Botanical Seed Collector, Woy-Woy, New South Wales. Received May 4, 1942.

A collection of native Australian species made at the request of C. T. White, Government Botanist, Brisbane, Queensland.

143922. CASUARINA CUNNINGHAMIANA Miquel. Casuarinaceae.

Cunningham beefwood.

A slender-branched, leafless ornamental tree, which has branchlets suggesting horsetails.

For previous introduction see 99405.

143923. CASUARINA GLAUCA Sieber.

Beefwood.

A small bushy tree.

For previous introduction see 136848.

143924. CASUARINA STRICTA Ait.

For previous introduction see 90682.

143925. CASUARINA SUBEROSA Otto & Dietr. (*C. leptoclada* Miq.)

A species with very large fruits, 1½ inches long, and with long, coarse, pendent branchlets, very distinct from *Casuarina equisetifolia*.

For previous introduction see 112083.

143926. CASUARINA TORULOSA Ait.

An evergreen tree 50 to 75 feet high, with erect, mostly terete, branches. The close-grained, prettily marked wood is used as veneer for cabinet work; also for shingles.

For previous introduction see 125036.

143927. EUCALYPTUS BAILEYANA F. Muell. Myrtaceae.

A tall tree, native to Queensland, with narrowly lanceolate-falcate, dull green leaves. The flowers are in small axillary umbels and the fruits are semiovate. The wood is light gray, very tough, and suitable for tool handles.

For previous introduction see 75615.

143928. EUCALYPTUS BOTRYOIDES J. E. Smith.

Bangalay.

A tall tree, native to Queensland, with narrowly lanceolate-falcate, dull umbels of small, sessile, white flowers; and obovate fruits. In Australia, it is used as a windbreak and as a shade tree. The wood is hard, tough, and durable.

For previous introduction see 141824.

143922 to 143950—Continued.**143929. EUCALYPTUS CITRIODORA** Hook.

For previous introduction see 143766.

143930. EUCALYPTUS EUGENOIDES Sieber.A tall tree, native to New South Wales, with fibrous bark, thick oblique leaves 2 to 6 inches long, small white flowers in axillary clusters of 6 to 12, and ovoid fruits $\frac{1}{4}$ inch in diameter.

For previous introduction see 141829.

143931. EUCALYPTUS EXSERTA F. Muell.A medium-sized tree with rough, fissured, ash-brown bark; sword-shaped leaves 3 to 6 inches long; axillary clusters of 3 to 8 white flowers on long pedicels; and nearly globular fruits $\frac{1}{2}$ inch in diameter.

For previous introduction see 141831.

143932. EUCALYPTUS GUMMIFERA (Gaertn.) Hochr. (*E. corymbosa* J. E. Smith).

A medium-sized evergreen tree, with leathery, lanceolate leaves and large corymbs of fragrant, yellowish-white flowers.

For previous introduction see 143768.

143933. EUCALYPTUS HEMIPHLOIA F. Muell.

An evergreen tree 50 to 60 feet high with hard wood.

143934. × EUCALYPTUS KIRTONIANA F. Muell.

For previous introduction see 141835.

143935. EUCALYPTUS MACULATA Hook.

Spotted gum.

For previous introduction see 143769.

143936. EUCALYPTUS MELLIDORA A. Cunn.

Honey gum.

A spreading tree up to 150 feet high, with drooping branches, narrow lanceolate leaves 3 to 5 inches long, and small white flowers particularly rich in nectar. The timber is used in Australia by wheelwrights and shipbuilders.

For previous introduction see 141841.

143937. EUCALYPTUS MICRANTHA DC.

A large tree with smooth bark that flakes off, leaving the trunk spotted or variegated. The thick, leathery, sword-shaped leaves are 6 to 8 inches long, and the axillary clusters of 4 to 8 flowers are followed by pear-shaped fruits less than a quarter of an inch in diameter.

For previous introduction see 90697.

143938. EUCALYPTUS MICROCARPA Maiden.

A large tree with gray or white bark; lanceolate, leathery leaves 4 inches long; and panicles made up of clusters of 3 to 7 small flowers followed by very small, subcylindrical fruits.

For previous introduction see 138855.

143939. EUCALYPTUS MICROCORYS F. Muell.

A tall tree with persistent, wrinkled bark; thin, broadly lanceolate leaves; and small white flowers. The yellowish timber is especially useful for ballroom floors because of its greasy nature.

For previous introduction see 143770.

143940. EUCALYPTUS PANICULATA J. E. Smith.

For previous introduction see 143771.

143922 to 143950—Continued.

143941. *EUCALYPTUS PILULARIS* J. E. Smith. Blackbutt.

A slender tree 100 to 150 feet high, considered excellent for timber, especially for fence posts and telegraph poles. The honey from the flowers is reported to be of especially good quality. In California the tree grows well near the coast but does not thrive in the dry, hot interior valleys.

For previous introduction see 143772.

143942. *EUCALYPTUS POPULIFOLIA* Desf.

A compact, straight-growing tree up to 50 feet high, with lustrous, intensely green, 4-inch-long ovate leaves, and with panicles of small white flowers followed by very small fruits.

For previous introduction see 75646.

143943. *EUCALYPTUS PROPINQUA* Deane & Maiden.

A large tree, 120 feet high and 4 feet in diameter, native to New South Wales. The lanceolate leaves are 5 inches long, and the timber is durable either in or out of the ground.

For previous introduction see 141852.

143944. *EUCALYPTUS RESINIFERA* J. E. Smith.

Mahogany gum.

A large tree with rough, reddish, fibrous, persistent bark. The heavy timber is rich red and is said to be strong and durable; because of the color the tree is also called red mahogany.

For previous introduction see 143774.

143945. *EUCALYPTUS ROBUSTA* J. E. Smith.

Brown gum.

A handsome, symmetrically branched tree of moderate height, with bark of trunk persistent, rough, dark brown, and that of the branches reddish. The wood is said to be somewhat brittle.

For previous introduction see 143710.

143946. *EUCALYPTUS SALIGNA* J. E. Smith.

A tall tree with silvery-gray bark, native to New South Wales. The narrowly lanceolate leaves are 5 to 6 inches long, and the clusters of 4 to 8 white flowers are on short peduncles.

For previous introduction see 143775.

143947. *EUCALYPTUS TERETICORNIS* J. E. Smith.

Slaty gum.

For previous introduction see 141861.

143948. *EUCALYPTUS TRIANTHA* Link. (*E. acmenioides* Schauer).

For previous introduction see 143778.

143949. *EUCALYPTUS UMBRA* R. T. Baker.

A small to moderately large tree with thick, coarse, fibrous, persistent bark and alternate, thick, shining, lanceolate to falcate-lanceolate, mature leaves. The timber is inferior. In Australia this is a tree of poor saline flats and ridges in proximity to salt water.

For previous introduction see 141863.

143950. *EUCALYPTUS* sp.

143951. *PASSIFLORA PURPUSII* Killip. Passifloraceae.

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered May 5, 1942.

A passiflora with ovate, cordate leaves about 6 inches long and flowers about 2 inches wide. Native to Veracruz, Mexico.

For previous introduction see 124615.

JANUARY 1 TO DECEMBER 31, 1942

21

143952. FRAGARIA sp. Rosaceae. **Strawberry.**

From Canada. Plants presented by W. J. Strong, Ontario Department of Agriculture, Vineland Experiment Station, Ontario. Received May 6, 1942.

Valentine strawberry.

143953. CINCHONA OFFICINALIS L. Rubiaceae.

From Guatemala. Seeds obtained from a planting near San Sebastian. Received May 6, 1942.

Originally received from Java as *Cinchona ledgeriana*, now considered a synonym of the above.

For previous introduction see 143792.

143954 to 143959. PRUNUS ARMENIACA L. Amygdalaceae. **Apricot.**

From South Dakota. Trees presented by the Carl A. Hansen Nursery, Brookings. Received May 8, 1942.

143954. *Hulan.*

143957. *Sing.*

143955. *Lalin.*

143958. *Sino.*

143956. *Mandarin.*

143959. *Zun.*

143960 and 143961. TARAXACUM KOK-SAGHYZ Rodin. Cichoraceae.

From the Union of Soviet Socialist Republics. Seeds obtained through the State Department, Washington, D. C. Received May 8, 1942.

143960. No. 10706.

143961. No. 10707.

143962 to 143972.

From Algeria. Seeds collected by J. G. Hamilton, Soil Conservation Service, United States Department of Agriculture. Received May 11, 1942.

143962. BAUHINIA sp. Caesalpiniaceae.

No. 10.

143963. HIBISCUS SABDARIFFA L. Malvaceae.

Roselle.

A stout annual, 5 to 9 feet high. The fruiting calyxes are for jellies.

For previous introduction see 133035.

143964. ORYZA SATIVA L. Poaceae.

Rice.

No. 8.

143965 and 143966. SESAMUM INDICUM L. (*S. orientale* L.) Pedaliaceae. Sesame.

143965. No. 4a.

143966. No. 7.

143967 and 143968. SORGHUM VULGARE Pers. Poaceae. Sorghum.

143967. No. 4.

143968. No. 6.

143969. TETRAPLEURA sp. Mimosaceae.

No. 9.

143970. VIGNA SINENSIS (Torner) Savi. Fabaceae. Cowpea.

No. 3.

143962 to 143972—Continued.

143971. VOANDZEIA SUBTERRANEA (L.) Thouars. Fabaceae.

No. 1.

For previous introduction see 115500.

143972. ZEA MAYS L. Poaceae.

Corn.

No. 5.

143973 to 143980.

From Canada. Trees purchased from the Manitoba Hardy Plant Nursery, Dropmore, Manitoba. Received May 11, 1942.

143973. MALUS sp. Malaceae.

Apple.

Red Apple.

143974. MALUS sp.

Sugar Crab.

143975. PRUNUS sp. Amygdalaceae.

Dropmore Blue.

143976. PRUNUS sp.

McRobert.

143977. PYRUS sp. Malaceae.

Pear.

Forostovsky.

143978. PYRUS sp.

Manchurian.

143979. PYRUS sp.

Olia.

143980. PYRUS sp.

Tioma

143981. CINCHONA OFFICINALIS L. Rubiaceae.

From the Philippine Islands. Seeds presented by Col. Arthur Fischer, Director of Forestry, Manila. Received May 12, 1942.

Collected at Kaatoan-Bukidnon.

For previous introduction see 143792.

143982 to 143985.

From Australia. Seeds presented by Dr. A. McTaggart, Division of Plant Introduction, Council for Scientific and Industrial Research, Canberra. Received May 4, 1942.

143982. AVENA MONTANA Vill. Poaceae.

Grass.

No. 7704. A perennial, cespitose grass, native to alpine and subalpine sections of southern Europe, with laxly ascending stems and loosely folded leaves. The loose panicle is about 6 inches long.

For previous introduction see 59363.

143983. AVENA PUBESCENS Huds.

No. 7706. A perennial Siberian grass which thrives in dry, open places, forming a thick turf. The numerous branches are about 4 inches long, and the coarse leaves are up to an inch in width.

For previous introduction see 59693.

143982 to 143985—Continued.

143984. AVENA PRATENSIS L.

No. 7705.

For previous introduction see 136313.

143985. AVENA PUBESCENS Huds.

No. 7703.

For previous introduction see 136314.

143986. CASTILLA ELASTICA Cerv. Moraceae. Mexican rubber tree.

From Puerto Rico. Seeds presented by Kenneth A. Bartlett, Acting Director, Puerto Rico Agricultural Experiment Station, Mayaguez. Received May 15, 1942.

For previous introduction see 124758.

143987 and 143988.

From Mexico. Seeds collected by S. B. Detwiler, Soil Conservation Service, United States Department of Agriculture. Received May 18, 1942.

143987. ASCLEPIAS SUBULATA Decaisne. Asclepiadaceae.

No. 2100. From northwestern Mexico.

For previous introduction see 59766.

143988. CRYPTOSTEGIA sp. Asclepiadaceae.

No. 2000. From northwestern Mexico.

143989. TARAXACUM KOK-SAGHYZ Rodin. Cichoriaceae.

From the Union of Soviet Socialist Republics. Received May 20, 1942.

For previous introduction see 143961.

143990 to 144003.

From Australia. Seeds presented by the Queensland Forest Service, Brisbane. Received May 1, 1942.

143990. EUCALYPTUS CITRIODORA Hook. Myrtaceae.

For previous introduction see 143929.

143991. EUCALYPTUS CLOEZIANA F. Muell.

143992. EUCALYPTUS CREBRA F. Muell.

Narrowleaf ironbark.

For previous introduction see 141828.

143993. EUCALYPTUS GUMMIFERA (Gaertn.) Hochr. (*E. corymbosa* J. E. Smith).

For previous introduction see 143932.

143994. EUCALYPTUS MACULATA Hook.

Spotted gum.

For previous introduction see 143935.

143995. EUCALYPTUS MICROCORYS F. Muell.

For previous introduction see 143939.

143996. EUCALYPTUS PANICULATA J. E. Smith.

For previous introduction see 143940.

143997. EUCALYPTUS PILULARIS J. E. Smith.

Blackbutt.

For previous introduction see 143941.

143998. EUCALYPTUS RESINIFERA J. E. Smith.

Mahogany gum.

For previous introduction see 143944.

143990 to 144003—Continued.

143999. EUCALYPTUS SALIGNA J. E. Smith.

For previous introduction see 143946.

144000. EUCALYPTUS STAIGERIANA F. Muell.

For previous introduction see 143776.

144001. EUCALYPTUS TERETICORNIS J. E. Smitl.

For previous introduction see 143947.

144002. EUCALYPTUS TRACHYPHLOIA F. Muell.

For previous introduction see 143777.

144003. EUCALYPTUS TRIANTHA Link.

For previous introduction see 143948.

144004. IPOMOEA MURUCOIDES Roem. & Schult. Convolvulaceae.

From Mexico. Seeds presented by the Dirección General Forestal y de Caza, Mexico City, through Edwin A. Menninger, Stuart, Fla. Numbered May 21, 1942.

Cazahuate or palo bobo.

144005. CALLIANDRA HAEMATOCEPHALA Hassler. Mimosaceae.

From Florida. Seeds presented by L. M. Simonson, Lake Alfred. Received May 22, 1942.

A handsome shrub or small tree, with terete, green branches, and bipinnate leaves with only 1 pair of pinnae, each about 5 inches long. The small crimson flowers are in globose heads.

For previous introduction see 36023.

144006. KALANCHOE sp. Crassulaceae.

From New York. Cuttings presented by the New York Botanical Garden, Bronx Park, New York City. Received April 17, 1940.

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

144007 and 144008.

From Brazil. Seeds presented by the Botanic Garden, Rio de Janeiro. Received October 31, 1940.

144007. BEGONIA LUXURIANS Scheidw. Begoniaceae.

Native to the Serra dos Orgãos.

144008. BEGONIA sp.

Native to the Serra dos Orgãos.

144009 to 144036.

From Canada. Trees purchased from the Boughey Nurseries, Valley River, Manitoba. Received May 22, 1942.

144009 to 144016. MALUS SYLVESTRIS Mill. Malaceae.

Apple.

144009. Arabskoe.

144013. Boskill No. 4.

144010. Battleford No. 2.

144014. Boskill No. 5.

144011. Boskill No. 1.

144015. Boskill No. 7.

144012. Boskill No. 3.

144016. Boskill No. 8.

144017. MALUS sp.

Dauphin.

144009 to 144036—Continued.144018. *MALUS* sp.*Kutanka.*144019. *MALUS SYLVESTRIS* Mill.*M-343.*144020. *MALUS ASTRACANICA* Dum.-Cours.*Magnus.*144021. *MALUS* sp.*Minnesota 447.*144022. *MALUS* sp.*Pattie.*144023 and 144024. *MALUS SYLVESTRIS* Mill.**Apple.***Piotet.**Renet Bergatney.*144025. × *MALUS ADSTRINGENS* Zabel.*Robin.*144026. *MALUS* sp.*Rosthern No. 5.*144027. *MALUS* sp.*Rosthern No. 18.*144028. *MALUS* sp.*Rosthern No. 21.*144029. *MALUS* sp.*Rosthern No. 22.*144030. *MALUS* sp.*Severn.*144031. *MALUS* sp.*Yephory's Chernogous.*144032. *MALUS* sp.

(No label).

144033. *PRUNUS*. Amygdalaceae.*Opata* plum.144034. *PYRUS* sp. Malaceae.**Pear.***Liaoyang No. 10.*144035. *PYRUS* sp.*Liaoyang No. 50.*144036. *PYRUS* sp.*Pioneer No. 3.***144037 to 144040.**

From California. Plants presented by Dr. I. J. Condit, Citrus Experiment Station, Riverside. Received May 23, 1942.

144037. *FICUS* sp. Moraceae.

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

144037 to 144040—Continued.

144038. *FICUS MALLATOCARPA* Warb.144039. *FICUS MINDOROENSIS* Merr.144040. *FICUS SATTERTHWAITEI* Elmer.

144041 to 144053.

From Uruguay. Seeds presented by Dr. Bernardo Rosengürtt, Monzon-Heber, Estación Juan Jackson. Received May 15, 1942.

144041. *AMPHIBROMUS SCABRIVALVIS* (Trin.) Swallen. Poaceae. Grass.

No. 68. A bulbiferous plant, with cleistogamous flowers, growing in humid places. Native to Chile.

For previous introduction see 76878.

144042. *ASTREBLA LAPPACEA* (Lindl.) Domin. Poaceae. Grass.

No. 612.

For previous introduction see 134839.

144043. *BRIZA RUF'A* (Presl) Steud. Poaceae. Grass.

No. 682.

144044. *CALAMAGROSTIS VIRIDI-FLAVESCENS* (Poir.) Steud. Poaceae. Grass.

For previous introduction see 138788.

144045. *ELEUSINE TRISTACHYA* Lam. Poaceae. Grass.

PE 846.

For previous introduction see 27290.

144046. *FESTUCA* sp. Poaceae. Grass.

No. 345.

144047. *HORDEUM BULBOSUM* L. Poaceae. Grass.

Perennial grass about 4 feet high.

For previous introduction see 141413.

144048 and 144049. *HORDEUM COMPRESSUM* Griseb. Grass.

144048. No. 674.

144049. No. 673.

144050. *MANISURIS SELLOANA* (Hack.) Kuntze. Poaceae. Grass.

No. 424. A cespitose suberect grass, common in Uruguay. The slender stems are about 12 inches high.

For previous introduction see 128170.

144051. *POA LANIGERA* Nees. Poaceae. Grass.

No. 824.

For previous introduction see 92389.

144052. *STIPA HYALINA* Nees. Poaceae. Feathergrass.

The somewhat bulbous rhizomes of this South American perennial grass send up rather woody culms about 2 feet high, with very narrow leaves.

For previous introduction see 62056.

144053. *TRIDENS BRASILIENSIS* Nees. Poaceae. Grass.

No. 357. A tufted perennial grass, native to Brazil, with flat leaves.

For previous introduction see 62059.

144054 to 144056. EREMOCITRUS GLAUCA (Lindl.) Swingle (Attalantia glauca Benth.). Australian desert kumquat.

From Australia. Fruits presented by C. T. White, Government Botanist, Brisbane, Queensland. Received May 25, 1942.

144054. Collected by S. L. Everist, Blackall, Queensland, at Ward River, north of Charleville.

144055. Collected by L. G. Walker, Wellshot, Ilfracombe, Queensland at Wellshot, Ilfracombe.

144056. Collected by G. Mara, at Tiree, Torrens Creek, Queensland.

144057 to 144067. HEVEA BRASILIENSIS (A. Juss.) Muell. Arg. Euphorbiaceae. Para rubber tree.

From Costa Rica. Plants presented by Theodore J. Grant, Special Rubber Investigations, United States Department of Agriculture.

From the Ford Collection, shipped to Costa Rica from Brazil in 1941.

144057. B-14 144063. B-3387

144058. B-3112. 144064. F-409

144059. B-3363. 144065. F-1444

144060. B-337. 144066. F-1620

144061. B-3381. 144067. F-5475

144062. B-3384.

For previous introduction see 142247.

144068. MATELEA LANATA (Zucc.) Woodson. Asclepiadaceae.

From Texas. Seeds presented by Peter Heinz, Brownsville. Received March 12, 1941.

144069. LUFFA AEGYPTIACA Mill. Cucurbitaceae.

Suakwa towelgourd.

From Puerto Rico. Seeds presented by Dr. J. A. B. Nolla, Director, Agricultural Experiment Station, University of Puerto Rico, Rio Piedras. Received May 22, 1942.

144070. CARLUDEVICA PALMATA Ruiz & Pav. Cyclanthaceae. Panama-hat plant.

From the Canal Zone. Seeds presented by Walter R. Lindsay, Director, Canal Zone Experiment Gardens, Summit. Received May 29, 1942.

A stemless plant, native to northwestern South America, with palmately divided, palmlike leaves about 2 feet across on petioles 4 to 6 feet high. The leaves are used for making panama hats.

For previous introduction see 133016.

144071 to 144077. CINCHONA OFFICINALIS L. Rubiaceae.

144071. General collection, December 1941 to March 1942.

144072. No. 43. Collected from March 30, 1942, to April 1, 1942.

144073. No. 45. March 30, 1942.

144074. No. 72. March 1942.

144075. No. 2. April 1, 1942.

144071 to 144087—Continued.

144076. No. 2. March 2, 1942.

144077. No. 4. April 1, 1942.

144078 to 144080. CINCHONA PUBESCENS Vahl (*C. succirubra* Pav.)

144078. No. 8. January 26, 1942.

144079. No. 22. February 2, 1942.

144080. No. 22, April 1, 1942.

For previous introduction see 143794.

144081. CINCHONA sp.

C.S. x-1. April 1, 1942. Originally from southern Brazil.

144082. CINCHONA sp.

C.S. x-2. April 1, 1942.

144083. CINCHONA sp.

C.S. x-2. April 1, 1942.

144084. CINCHONA sp.

No. 9. April 1, 1942.

144085 to 144087. CINCHONA.

144085. Hybrid No. 11. April 1, 1942.

144086. Hybrid No. 147. April 1, 1942. Originally from southern Brazil.

144087. Hybrid No. 168. March 31, 1942. Originally from Brazil.

144088 and 144089.

From Canada. Trees purchased from the McFayden Seed Co., Winnipeg, Manitoba. Received June 4, 1942.

144088. MALUS SYLVESTRIS Mill. Malaceae.

Apple.

*Printosh.***144089. PRUNUS sp.** Amygdalaceae.*Assiniboine plum.***144090 to 144092.**

From South Africa. Seeds presented by the McGregor Museum, Kimberley. Received May 26, 1942.

144090 and 144091. ERAGROSTIS LEHMANNIANA Nees. Poaceae.

Grass.

For previous introduction see 129589.

144092. POGONARTHRIA SQUARROSA (Licht.) Pilger. Poaceae.

Grass.

For previous introduction see 142057.

144093 to 144114.

From the Philippine Islands. Seeds presented by Col. Arthur Fischer, Bureau of Forestry, Manila. Received June 3, 1942.

144093 to 144102. CINCHONA OFFICINALIS L. Rubiaceae.

144093. (General collection, Kaatoan.) Collected December 1941 to February 1942.

144094. (General collection, Kaatoan.) Collected December 1941 to January 1942.

144095. (Impalatao stock). Collected December 1941 to February 1942.

144096. No. 3. (Impalatao stock). Collected December 1941 to February 1942.

144093 to 144114—Continued.

144097. No. 4. (Impalatao stock.) Collected January to February 1942.
 144098. No. 5. (Impalatao stock.) Collected December 1941 to February 1942.
 144099. No. 9. (Impalatao stock.) Collected January to February 1942.
 144100. No. 10. (Impalatao stock.) Collected December 1941 to January 1942.
 144101. No. 46. Collected April 8, 1942.
 144102. No. 47. Collected April 8, 1942.

For previous introduction see 144077.

144103 to 144105. CINCHONA PUBESCENS Vahl (*C. succirubra* Pav.).

144103. X-1. Collected April 1 and 2, 1942.
 144104. X-2. Collected April 1, 1942.
 144105. X-3. Collected April 1, 1942.

For previous introduction see 144080.

144106 to 144114. CINCHONA.

144106. Hybrid. (General Kaatoan collection.) Collected December 1941 and January 1942.
 144107. Hybrid. (General collection. Impalatao stock.) Collected February 1942.
 144108. Hybrid No. 1. (Impalatao stock.) Collected December 1941 and February 1942.
 144109. Hybrid No. 2. (Impalatao stock.) Collected January to February 1942.
 144110. Hybrid No. 3. (Impalatao stock.) Collected December 1941 to February 4, 1942.
 144111. Hybrid No. 10. Collected April 1, 1942.
 144112. Hybrid No. 11. Collected March 16, 1942.
 144113. Hybrid No. 168. Collected March 9 and 26, 1942.
 144114. Hybrid. X-4. Collected April 1, 1942.

144115. ROMULEA RAMIFLORA Ten. Iridaceae.

From Sweden. Seeds presented by the Botanic Garden, Göteborg. Received April 7, 1934.

144116 to 144118. QUERCUS SUBER L. Fagaceae. Cork oak.

From Spain. Seeds obtained through the Office of Foreign Agricultural Relations, United States Department of Agriculture. Received June 5, 1942.

144116. From Huelva Province. Collected on a mountain slope 800 meters altitude; soil stony; climate cold; humidity low.
 144117. From Sevilla Province. Collected on ravines at 500 meters altitude; soil silty; climate warm; humidity high.
 144118. From Cádiz Province. Collected on flat land at 150 meters altitude; soil poor, sandy; climate warm; humidity low.

For previous introduction see 82397.

144119 and 144120. GOSSYPIUM. Malvaceae. Cotton.

From Egypt. Seeds presented by the Ministry of Agriculture, Botanical and Plant Breeding Section, El Giza. Received June 6, 1942.

144119 and 144120—Continued. *Kénnak* (Giza 29). *Maláki* (Giza 26).

144119. Kénnak (Giza 29). From Egypt. Cuttings presented by Dr. A. J. Abou Ela, Government Sugar Cane Technician, Orman, Giza. Received June 11, 1942.

144120. Maláki (Giza 26).

144121. LUFFA AEGYPTIACA Mill. Cucurbitaceae. *Suakwa* towelgourd. From Ecuador. Seeds presented by Commander G. M. Dyott, British Legation, Quito. Received June 5, 1942.

144122. ACER SACCHARUM Marsh. Aceraceae. *Sugar maple*. From Maryland. Trees presented by J. J. Hohman, Kingsville Nurseries Inc., Kingsville. Received June 3, 1942.

Var. *Globosum*.

144123. HEDERA CANARIENSIS Willd. Araliaceae. *Aralia*.

From New Jersey. Plants presented by W. A. Manda Inc., South Orange. Received June 4, 1942.

A green sport which appeared on the variegated variety, *Gloire de Marengo*.

144124 to 144126. LUFFA AEGYPTIACA Mill. Cucurbitaceae.

Suakwa towelgourd.

From the British West Indies. Seeds presented by the Agricultural Superintendent, St. Lucia. Received June 5, 1942.

144124. A.

144125. B.

144126. C.

144127 and 144128. AMYGDALUS PERSICA L. Amygdalaceae.

Peach.

From Palestine. Seeds presented by Dr. Y. Carmon, Chief, Division of Horticulture, The Jewish Agency Agriculture Research Station, Rehovoth. Received June 11, 1942.

144127. Balady. ("Native" in Arabic.)

144128. Yellow. Nematode- and alkali-resistant.

144129 to 144138. SORGHUM VULGARE Pers. Poaceae. *Sorghum*. From the Union of South Africa. Seeds presented by Dr. H. H. Dodds, Director, Experiment Station, Mount Edgecombe, Natal. Received June 10, 1942.

144129. Amber Cane.

144134. Inyangentombi.

144130. Basutoland No. 254.

144135. Koster 250.

144131. Blacktop.

144136. Macharie 246.

144132. Eshewe.

144137. Wintersome.

144133. Haakdoorn.

144138. No. 284.

144139. SACCHARUM. Poaceae.

Sugarcane.

From Egypt. Cuttings presented by Gadallah Abou Ela, Government Sugar Cane Technician, Orman, Giza. Received June 13, 1942.

P.O.J. 105.

144140. ZINGIBER OFFICINALE Roscoe. Zingiberaceae. *Ginger*.

From Puerto Rico. Roots presented by Kenneth A. Bartlett, Acting Director, Federal Experiment Station, Mayaguez. Received June 16, 1942.

For previous introduction see 98793.

- 144141.** LUFFA AEGYPTIACA Mill. Cucurbitaceae. **Suakwa towelgourd.**
From the British West Indies. Seeds presented by the Agricultural Department, Montserrat. Received June 15, 1942.
- 144142 and 144143.** HIBISCUS ELATUS Swartz. Malvaceae. **Mountain rosemallow.**
From Cuba. Seeds presented by José Garcia, Havana. Received June 19, 1942.
Originally from Dr. J. Albertos Fors, Forestry Department.
For previous introduction see 87513.
- 144144.** MANIHOT sp. Euphorbiaceae.
From Georgia. Seeds presented by A. J. Ingram, Valdosta. Received June 19, 1942.
- 144145.** AMYGDALUS PERSICA L. Amygdalaceae. **Peach.**
From Argentina. Seeds presented by R. F. Worlock, Buenos Aires. Received June 22, 1942.
Wild peach seeds from the mountains of San Luis and Cordoba.
- 144146.** GOSSYPIUM. Malvaceae. **Cotton.**
From the British West Indies. Seeds presented by S. C. Barham, Kingston, Jamaica. Received June 10, 1942.
- 144147.** LUFFA AEGYPTIACA Mill. Cucurbitaceae. **Suakwa towelgourd.**
From Mexico. Seeds purchased from Manuel de Ymbert, Mexico City. Received June 25, 1942.
- 144148 to 144152.**
From Puerto Rico. Presented by Dr. K. A. Bartlett, Acting Director, Puerto Rico Agricultural Experiment Station, Mayaguez. Received June 29, 1942.
- 144148.** AGAVE SISALANA Perrine. Amaryllidaceae. **Sisal.**
Offsets.
For previous introduction see 49837.
- 144149 and 144150.** DERRIS ELLIPTICA (Roxb.) Benth. (*Deguelia elliptica* (Roxb.) Taub.). Fabaceae.
Cuttings.
- 144149.** Changi No. 3, Clone 104-3.
- 144150.** Sarawak Creeping.
For previous introduction see 128922.
- 144151.** PIPER NIGRUM L. Piperaceae. **Black pepper.**
Cuttings.
For previous introduction see 134270.
- 144152.** ZINGIBER OFFICINALE Roscoe. Zingiberaceae. **Ginger.**
Rhizomes.
For previous introduction see 144140.
- 144153.** PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**
From Peru. Seeds presented by Julian Greenup, Commercial Attaché, Lima. Received June 29, 1942.
Nunña.

144154. DIOSCOREA ALATA L. Dioscoreaceae. Winged yam.
From Brazil. Tubers collected by W. R. Schreiber, Office of Foreign Agricultural Relations, United States Department of Agriculture. Received March 28, 1941.

For previous introduction see 107738.

144155. MALVA PARVIFLORA L. Malvaceae.

From Texas. Seeds presented by C. C. Albers, Professor of Pharmacognosy, University of Texas, Austin. Received July 3, 1942.

For previous introduction see 122894.

144156. EREMOCLITUS GLAUCA (Lindl.) Swingle (*Atalantia glauca* Benth.). Rutaceae. Australian desert kumquat.

From California. Seeds presented by the United States Date Garden, Indio. Received July 3, 1942.

For previous introduction see 144056.

144157 to 144220.

From Bolivia. Seeds collected by Dr. T. H. Goodspeed, Andes Expedition of the University of California. Received June 18, 1942.

144157 to 144167. Collected in the Department of Cochabamba.

144157. ACIOTIS CAULIALATA Triana. Melastomaceae.

No. 39.2374. Altitude, 550 m.

144158 and 144159. ALONSOA ACUTIFOLIA Ruiz & Pav. Scrophulariaceae.

144158. No. 39.2167. Collected from W. Eyerdam, March 19, 1939. The plant grows among stones in red clay soil at an altitude of 3,000 m.

144159. No. 39.2421. Altitude 2,600 m.

For previous introduction see 127783.

144160. ARISTOLOCHIA sp. Aristolochiaceae.

No. 39.2373. Altitude 2,500 m.

144161. BACCHARIS GLUTINOSA Pers. Asteraceae.

No. 39.2379. Altitude 2,600 m.

144162. BACCHARIS RIPARIA H. B. K.

No. 39.2331. Altitude, 2,800 m.

144163. BACCHARIS sp.

No. 39.2188. Altitude 2,600 m.

144164. BACCHARIS sp.

No. 39.2185. Altitude 2,600 m.

144165. BACCHARIS sp.

No. 39.2184. Collected by W. Eyerdam, April 6, 1939.

The bush is rather common but showy, and has yellow flowers. It grows at an altitude of 2,600 m.

144166. BACCHARIS sp.

No. 39.2330. Altitude 800 m.

144167. BARNADESIA sp. Asteraceae.

No. 39.2347. Altitude 2,500 m.; flowers white.

144168. BARTSIA HISPIDA Benth. Scrophulariaceae.

No. 39.2420. From the Department of La Paz; altitude 2,500 m.

144157 to 144220—Continued.

144169. *BEGONIA* sp. Begoniaceae. No. 39.2332. From the Department of Cochabamba; altitude 550 m.
144170. *BOMAREA DISTICHOPHYLLA* (Herb.) Baker. Amaryllidaceae. No. 39.2322. From the Department of Cochabamba; altitude 2,800 m.
144171. *BOMAREA MULTIFLORA* (L.) Mirb. No. 39.2375. From the Department of Cochabamba; altitude 2,800 m.
144172. *CALCEOLARIA* sp. Scrophulariaceae. No. 39.2112. From the Department of Colombo.
144173. *CASTILLEJA COMMUNIS* Benth. Scrophulariaceae. No. 39.2367. From the Department of La Paz; altitude 2,500 m.
144174. *CESTRUM STRIGILLATUM* Ruiz & Pav. Solanaceae. No. 39.2384. From the Department of Cochabamba; altitude 550 m.
144175. *CLEOME* sp. Capparidaceae. No. 39.1986. From the Department of La Paz; altitude 2,500 m. Collected by W. Eyerdam, April 15, 1939.
144176. *CLEOME* sp. No. 39.2378. From the Department of Cochabamba; altitude 2,800 m. Flowers pink.
144177. *CLEOME* sp. No. 39.2343. From the Department of Cochabamba; altitude 2,800 m. Flowers white.
144178. *CONYZA GNAPHALIOIDES* H. B. K. Asteraceae. No. 39.2350. From the Department of Cochabamba; altitude 3,200 m.
144179. *COSMOS* sp. Asteraceae. No. 39.2339. From the Department of Cochabamba; altitude 2,700 m. Flower heads orange, with yellow rays.
144180. *CRASSULA CONNATA* (Ruz & Pav.) Berger. Crassulaceae. No. 39.2348. From the Department of Cochabamba; altitude 1,700 m.
144181. *CROTALARIA PUMILA* Ortega. Fabaceae. No. 39.2349. From the Department of Cochabamba; altitude 2,700 m. For previous introduction see 97308.
144182. *DAHLIA ROSEA* Cav. Asteraceae. No. 39.2352. From the Department of La Paz; altitude 2,700 m. For previous introduction see 97748.
144183. *EPILOBIUM HAENKEANUM* Hausskn. Onagraceae. No. 39.2395. From the Department of La Paz; altitude 3,200 m.
144184. *EUPATORIUM* sp. Asteraceae. No. 39.2247. From the Department of Cochabamba. Collected by W. Eyerdam, April 5, 1939. Grows in stony ground; flowers purple.
144185. *EUPATORIUM* sp. No. 39.2326. From the Department of Cochabamba; altitude 600 m., flowers white.
144186. *GALACTIA SPECIOSA* (DC.) Britt. Fabaceae. No. 39.2405. From the Department of La Paz. A shrub or bush 3 to 4 m.

144157 to 144220—Continued.

high, with purple flowers, and seed pods that burst with an audible report, then curl.

144187. GAULTHERIA sp. Ericaceae.

No. 39.2216. From the Department of La Paz; altitude 3,200 m. Collected by W. Eyerdam, April 15, 1939.

144188. GAULTHERIA ERECTA Vent.

No. 39.2215. From the Department of Cochabamba; altitude 900 m.

144189. GERANIUM BOLIVIANUM Knuth. Geraniaceae.

No. 39.2354. From the Department of La Paz; altitude 3,200 m. A perennial herb 1 m. high with pink to purple flowers.

144190. GERARDIA LANCEOLATA Benth. Scrophulariaceae.

No. 39.2419. From the Department of La Paz; altitude 2,800 m. A shrub or bush 1 to 2.5 m. high, with pink to rose-red flowers.

144191. HESPEROMELES PERNETTYOIDES Wedd. Malaceae.

No. 39.2369. From the Department of La Paz; altitude 3,200 m. A shrub or bush 2 m. high.

144192. HYPTIS KUNTZEANA Briq. Menthaceae.

No. 39.2409. From the Department of Cochabamba; altitude 2,600 m. Flower heads lavender.

144193 and 144194. INDIGOFERA SUFFRUTICOSA Mill. (*I. anil* L.). Fabaceae.
Indigo.

144193. No. 39.2345. From the Department of Cochabamba; altitude 2,800 m. Shrub 0.5 m. high.

144194. No. 39.2404. From the Department of La Paz; altitude 2,500 m. Shrub or bush 1 to 2.5 m. high.

For previous introduction see 111456.

144195. LEPECHINIA CONFUSA (Briq.) Epling. Menthaceae.

No. 39.2361. From the Department of Cochabamba; altitude 2,900 m.

144196. MALVASTRUM TENELLUM (Cav.) Hieron. Malvaceae.

No. 39.2338. From the Department of Cochabamba; altitude 2,700 m.

144197. MUEHLENBECKIA PERUVIANA Meissn. Polygonaceae.

No. 39.2355. From the Department of La Paz; altitude 3,200 m.

144198. OENOTHERA CAMPYLOCALYX Koch & Bouché. Onagraceae.

No. 39.2411. From the Department of La Paz; altitude 2,500 m.

144199. PHYTOLACCA BOGOTENSIS H. B. K. Phytolaccaceae.

No. 39.2329. From the Department of Cochabamba; altitude 800 m.

144200. PHYTOLACCA RIVINOIDES Kunth & Bouché.

No. 39.2178. From the Department of Cochabamba; altitude 800 m. A subtropical bush found in rich soil in shady woods.

144201. POROPHYLLUM RUDERALE (Jacq.) Cass. Asteraceae.

No. 39.2340. From the Department of Cochabamba; altitude 2,700 m.

144202. POROPHYLLUM sp.

No. 39.2186. From the Department of Cochabamba. Flowers yellow.

144203. PORTULACA sp. Portulacaceae.

No. 39.2335. From the Department of Cochabamba; altitude 2,700 m. Flowers dark red to reddish purple.

144157 to 144220—Continued.

- 144204.** *RUPRECHTIA APETALA* Wedd. Polygonaceae.
No. 39.2365. From the Department of Cochabamba; altitude 2,600 m.
- 144205.** *SCHIZANTHUS* sp. Solanaceae. **Butterflyflower.**
No. 39.2249. From the Department of La Paz.
- 144206.** *SEEMANNIA CUNEATA* Rusby. Gesneriaceae.
No. 39.2368. From the Department of La Paz; altitude 2,500 m.
- 144207.** *SENECIO* sp. Asteraceae.
No. 39.2187. From the Cervecería Colón, Department of Cochabamba; altitude 2,800 m. Flowers yellow.
- 144208.** *SENECIO* sp.
No. 39.2193. From the Department of La Paz; altitude 4,500 m. Collected by W. Eyerdam, April 15, 1939. Found growing in peat bog; flowers yellow.
- 144209.** *SENECIO* sp.
No. 39.2245. From the Department of Cochabamba. Collected by W. Eyerdam, April 5, 1939. Grows in stony soil.
- 144210.** *SISYMBRIUM* sp. Brassicaceae.
No. 39.2392. Altitude 2,700 m.
- 144211.** *SOLANUM PALLIDUM* Rusby. Solanaceae.
No. 39.2428. From the Department of Cochabamba; altitude 2,500 m.
- 144212.** *SOLANUM SISYMBRIFOLIUM* Lam.
No. 39.2336. From the Department of Cochabamba; altitude 2,700 m.
For previous introduction see 114476.
- 144213.** *SOLANUM* sp.
No. 39.2327. From the Department of Cochabamba; altitude 2,500 m.
Flowers purple.
- 144214.** *SOLANUM* sp.
No. 39.2429. From the Department of Cochabamba; altitude 550 m.
Flowers purple.
- 144215.** *SOLANUM* sp.
No. 39.2430. From the Department of Cochabamba; altitude 2,800 m.
Flowers white; fruit resembling a tomato.
- 144216.** *STEVIA* sp. Asteraceae.
No. 39.2191. From the Department of Cochabamba; altitude 2,600 m.
Flowers purple.
- 144217.** *TALINUM PANICULATUM* (Jacq.) Gaertn. Portulacaceae.
No. 39.2337. From the Department of Cochabamba; altitude 2,700 m.
For previous introduction see 95705.
- 144218.** *TOVARIA PENDULA* Ruiz & Pav. Tovariaceae.
No. 39.2176. From the Department of Cochabamba; altitude 800 m.
- 144219.** *URERA CARACASANA* (Jacq.) Griseb. Urticaceae.
No. 39.2333. From the Department of Cochabamba; altitude 55 m.
- 144220.** *VÉRBESINA* sp. Asteraceae.
No. 39.2190. From the Department of Cochabamba; altitude 2,600 m.
Flowers blue.

144221 to 144223.

From Mexico. Seeds presented by E. Locke, Acapulco, Guerrero. Received July 6, 1942. (In cultivação.)—*AMBELOCISSUS ACAPULCENSIS* (H. B. K.) Planch. Vitaceae.

144221. *AMBELOCISSUS ACAPULCENSIS* (H. B. K.) Planch. Vitaceae. Purple Grape.

For previous introduction see 57218.

144222. *VITIS* sp. Vitaceae. White grape.

144223. (Undetermined.)

A small-rooted plant whose tuber is cooked and eaten by the natives of Acapulco.

144224. *OXALIS TUBEROSA* Molina. Oxalidaceae. Oca.

From Bolivia. Seeds presented by H. Cutler, La Paz. Received July 7, 1942.

For previous introduction see 109717.

144225 and 144226.

From Chile. Seeds presented by the Department of Genetics and Fitotecnia, Santiago, Received July 3, 1942.

144225. *CARICA PAPAYA* L. Papayaceae. Papaya.

144226. *PERSEA* sp. Lauraceae.

A hardy semi-dwarfed species received under the name "melanocarpa," for which a place of publication has not been found.

144227. *CARICA PAPAYA* L. Papayaceae. Papaya.

From Brazil. Seeds presented by C. M. Holmes, Rezende, through the American Embassy, Rio de Janeiro. Received July 8, 1942.

144228 to 144277.

From Argentina. Seeds collected by Dr. T. H. Goodspeed, Andes Expedition of the University of California. Received June 19, 1942.

144228. *ALOPHIA LAHUE* (Molina) Espinosa. Iridaceae.

No. 39.1926. From San Vincente, Province of Buenos Aires; altitude 10 m.

144229. *ANEMONE* sp. Ranunculaceae.

No. 39.1452. From Bariloche.

144230. *ANEMONE* sp.

No. 39.1720. From the Department of Lago; altitude 270 m.

144231. *ANEMONE* sp.

No. 39.1734. From the Department of Lago; altitude 280 m.

144232. *ARISTOTELIA CHILENSIS*, (Molina) Stuntz (*A. macqui* L'Her.). Elaeocarpaceae. Maqui.

No. 39.1789. From Cerro Campana.

For previous introduction see 98043.

144233. *BACCHARIS* sp. Asteraceae.

No. 39.1670. From the Department of Lago Nahuel; altitude 850 m.

144234. *BACCHARIS* sp.

No. 39.1216. From the Department of Trelew, Chubut; altitude 80 m.; flowers pink.

144235. *BACCHARIS* sp.

144228 to 144277—Continued.

- No. 39.1217. From Trelew, Chubut; altitude 30 m.; flowers pink.
- 144236. CALCEOLOARIA sp.** Scrophulariaceae.
- No. 39.1544. From the Department of Lago; altitude 200 m.; flowers yellow.
- 144237. CALCEOLOARIA sp.**
- No. 39.1542. From the Department of Corpen; altitude 200 m.; flowers yellow.
- 144238. CALCEOLOARIA sp.**
- No. 39.1546. From Santa Cruz; altitude 30 m., flowers yellow.
- 144239. CALCEOLOARIA sp.**
- No. 39.1547. From the Department of Guar Aiken; altitude 480 m.
- 144240. CHUQUIRAGA sp.** Asteraceae.
- No. 39.1712. From the Department of Lago; altitude 200 m.
- 144241. CLEOME CHILENSIS DC.** Capparidaceae.
- No. 39.1127. From the Department of Lima; altitude 200 to 300 m.
- 144242. EPHEDRA sp.** Gnetaceae.
- No. 39.1754. From the Department of Escalante; altitude 100 m.; flowers purple.
- 144243. ERIGERON sp.** Asteraceae.
- No. 39.2490. From the Department of Pilcaniew; altitude 800 m.
- 144244. HYBANTHUS PARVIFLORUS (L.f.) Baill.** Violaceae.
- No. 39.1932. From the Province of Buenos Aires; altitude 50 m. A perennial herb 0.25 m. high.
- 144245. HYPOCHAERIS BRASILIENSIS (Less.) Griseb.** Cichoriaceae.
- No. 39.1924. From the Province of Buenos Aires; altitude 50 m. An herb 0.75 m. high with yellow flowers.
- 144246. HYPOCHAERIS sp.**
- No. 39.1828. From Bahia Blanca.
- 144247. HYPOCHAERIS sp.**
- No. 39.1218. From Rawson, Chubut; altitude 30 m.; flowers yellow.
- 144248. JATROPHA EXCISA Griseb.** Euphorbiaceae.
- No. 40.1093. From La Rioja.
- 144249. JUSSIAEA PERUVIANA L.** Onagraceae.
- No. 39.1918. From the Department of Ledesma; altitude 1,400 m. Shrub 1 m. high; flowers yellow.
- 144250. LITHRAEA CAUSTICA (Molina) Hook. & Arn. (*L. venenosa* Miers).** Anacardiaceae.
- No. 39.1871. From Cerro Campana.
- For previous introduction see 54634.
- 144251. LUPINUS sp.** Fabaceae.
- No. 39.2096. From the Department of Lago; altitude 850 m.; flowers white.
- 144252. MORRENIA ODORATA (Hook. & Arn.) Lindl.** Asclepiadaceae.
- No. 39.1922. From the Province of Jujuy; altitude 1,250 m.
- For previous introduction see 33988.

144228 to 144277—Continued.

144253. *NASSAUVIA* sp. Asteraceae.

No. 39.1877. From the Department of Paso de Indios; altitude 800 m.

144254. *NIEREMBERGIA HIPPOMANICA* Miers. Solanaceae.

No. 40.1036. From Sierra Grande, Córdoba; altitude 1,000 m.

144255. *OXALIS SERPENS* St.Hil. Oxalidaceae.

No. 39.1920. From the Department of Capital; altitude 1,250 m.; flowers small, yellow, not showy.

144256. *PEREZIA* sp. Asteraceae.

No. 39.1757. From the Department of Deseado; altitude 250 m.

144257 to 144260.

From the Department of Vera; flowers white. Weeds in alfalfa fields.

144257. *PETUNIA* sp. Solanaceae.

No. 41.1008.

144258. *PETUNIA* sp.

No. 41.1009.

144259. *PETUNIA* sp.

No. 41.1011.

144260. *PETUNIA* sp.

No. 41.1012.

144261 to 144263.

From the Department of 9 de Julio; flowers white. Weeds in alfalfa fields.

144261. *SALPIGLOSSIS* sp. Solanaceae.

No. 41.1005.

144262. *SALPIGLOSSIS* sp.

No. 41.1006.

144263. *SALPIGLOSSIS* sp.

No. 41.1007.

144264. *SCHINUS POLYGAMUS* (Cav.) Johnston. Anacardiaceae.

No. 39.1936. From the Department of Escalante; altitude 300 m.

144265. *SENECIO* sp. Asteraceae.

No. 39.1408. From Rio Paraná.

144266. *SENECIO* sp.

No. 39.1219. From Chubut; altitude 700 m.; flowers yellow.

144267. *SISYRINCHIUM LAXUM* Sims. Iridaceae.

No. 39.1928. From Buenos Aires.

144268. *SOLANUM ABUTILOIDES* (Griseb.) Bitter & Lillo. Solanaceae.

No. 39.1923. From the Department of Santa Barbara; altitude 1,500 m.

144269. *STATICE* sp. Plumbaginaceae.

No. 39.1674. From the Department of Corpen; altitude 200 m.; flowers pink.

144270. *STEVIA SATUREIAEFOLIA* (Lam.) Sch.Bip. Asteraceae.

No. 40.1038. From Córdoba; altitude 1,000 m.

144228 to 144277—Continued.**144271. STEVIA sp.**

No. 39.1710. From Buenos Aires; altitude 50 m.

144272. TRIXIS sp. Asteraceae.

No. 39.1749. From the Department of Deseado; altitude 15 m.; said to be ornamental.

144273. VERBENA sp. Verbenaceae.

No. 39.1709. From the Department of Rio Chico; altitude 300 m.

144274. WAHLENBERGIA LINARIOIDES A. DC. Campanulaceae.

No. 39.1933. From Buenos Aires; altitude 50 m.

144275. WEDELIA BUPHTALMIFLORA Lor. Asteraceae.

No. 40.1032. From Córdoba; altitude 1,000 m.

144276. ZINNIA sp. Asteraceae.

No. 39.1421. From Sierra Chica, Province of Córdoba.

144277. ZINNIA sp.

No. 39.1900. From Córdoba.

144278 and 144279. SACCHARUM. Poaceae. Sugarcane.

From the British West Indies. Cuttings presented by Dr. A. M. Adamson, Plant Quarantine Station, Trinidad. Received July 10, 1942.

144278. B. 38192.**144279. B. 38233.****144280. BOEHMERIA NIVEA var. TENACISSIMA (Roxb.) Miq. Urticaceae.**

From El Salvador. Roots presented by W. A. Dalton, San Salvador. Received July 11, 1942.

144281 to 144283.

From Haiti. Seeds presented by Alex Large, Port-au-Prince. Received July 14, 1942.

144281. FOENICULUM VULGARE Mill. Apiaceae.

Fennel.

For previous introduction see 138808.

144282 and 144283. LUFFA AEGYPTIACA Mill. (*L. cylindrica* (L.) Roemer). Cucurbitaceae.

Suakwa towelgourd.

144284 to 144288. SACCHARUM. Poaceae. Sugarcane.

From Argentina. Cuttings presented by Dr. William Cross, Tucumán. Received July 17, 1942.

144284. No. 2622.**144287. No. 2680.****144285. No. 2645.****144288. No. 2683.****144286. No. 2657.****144289. OLEA MACROCARPA C. H. Wright. Oleaceae.**

From the Union of South Africa. Seeds presented by E. Percy Phillips, Department of Agriculture and Forestry. Received July 13, 1942.

144290 to 144293. AVENA SATIVA L. Poaceae. Oats.

From Argentina. Seeds presented by E. S. Sala, Director of Agriculture, Buenos Aires. Received July 14, 1942.

144290. Klein Capa.**144292. Klein Victoria.****144291. Klein Mar.****144293. La Prevision.**

144294. *HIBISCUS SABDARIFFA* L. Malvaceae. Roselle.

From El Salvador. Received without date July 18, 1942.

For previous introduction see 143963.

144295 to 144300. *ALEURITES MONTANA* (Lour.) Wilson.

Euphorbiaceae. Mu-oil tree.

From Africa. Seeds presented by C. C. Webster, Agricultural Officer, Nyasaland. Received July 21, 1942.

144295. Tree F. 9.

144298. Tree M. 13.

144296. Tree H. 14.

144299. Tree N. 10.

144297. Tree M. 8.

144300. Tree N. 24.

For previous introduction see 143844.

144301. *LICANIA RIGIDA* Benth. Rosaceae.

From South America. Seeds presented by Dr. David Fairchild, Coconut Grove, Fla. Received July 23, 1942.

For previous introduction see 108015.

144302. *MUSA TEXTILIS* Nee. Musaceae.

Abacá.

From Puerto Rico. Suckers presented by the Agricultural Experiment Station, Mayagüez. Received July 24, 1945.

For previous introduction see 65217.

144303. *PROSOPIS STROMBULIFERA* (Lam.) Benth. Mimosaceae.

From Argentina. Seeds presented by Rudolfo Martinez, Rector of the University of Córdoba, Córdoba. Received July 16, 1942.

A low shrub, not over 12 inches high, with peculiar screw-shaped, persistent pods that look like bright-yellow spikes of flowers a short distance away.

For previous introduction see 124043.

144304 and 144305. *OXALIS TUBEROSA* Molina. Oxalidaceae.

From Bolivia. Tubers presented by H. Cutler, La Paz. Received July 28, 1942.

144304. Yellow tubers.

144305. Purple tubers.

For previous introduction see 144224.

144306. *SCORZONERA* sp. Cichoriaceae.

From the Union of Soviet Socialist Republics. Seeds obtained through the American Embassy at Kuibyshev. Received July 30, 1942.

Tau Sagyz.

144307 and 144308.

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley. Received July 22, 1942.

144307. *ERAGROSTIS BICOLOR* Nees. Poaceae.

Grass.

Collected at Leeuwfontein, between Capetown and Kenib.

144308. *ERAGROSTIS LEHMANNIANA* var. *AMPLA* Stapf.

Grass.

Collected in the Museum Garden, Kimberley; more stoloniferous than the type but not so hardy.

For previous introduction see 142033.

144309. CASSIA OBOVATA Collad. Caesalpiniaceae.

From the Union of South Africa. Seeds presented by Mrs. E. Zoe Harris, Cape Province. Received July 30, 1942.

An drought-resistant, shrubby plant which grows in the wild veldt, preferably in sandy soil. It grows close to the ground and has attractive yellow flowers.

For previous introduction see 98821.

144310. FICUS PRETORIAE Burtt-Davy. Moraceae.

From the Union of South Africa. Seeds sent from the Division of Plant Industry, Pretoria. Received August 1, 1942.

An evergreen tree up to 75 feet high, with wide-spreading branches, some of which touch the ground and put out roots from which new stems arise. The leaves are oblong to oblong-elliptic, mostly abruptly acuminate, rigid, entire, and rounded at the base, often somewhat glaucous below. The spotted globose fruits, usually in threes, are crowded toward the ends of branchlets, and their reddish color when matured is said to be attractive to birds.

For previous introduction see 137595.

144311 to 144313. PYRUS COMMUNIS L. Malaceae. Common pear.

From Maryland. Plants growing at the Plant Introduction Garden, Glenn Dale. Numbered August 4, 1942.

Selected seedlings of P.I. 124067.

144311. Latvian A.

144312. Latvian B.

144313. Latvian C.

144314 to 144316.

From Ecuador. Seeds presented by W. R. Schreiber, Office of Foreign Agricultural Relations, United States Department of Agriculture. Received August 4, 1942.

144314. MEDICAGO SATIVA L. Fabaceae.

Alfalfa.

144315. SOLANUM QUITENSE Lam. Solanaceae.

Naranjilla.

An ornamental shrub about 3 feet high with oblong-ovate, deep-green leaves and large white flowers in short axillary clusters. The aromatic, orange-colored, juicy fruits are used in the preparation of refreshing drinks.

For previous introduction see 143694.

144316. CAESALPINIA SPINOSA (Molina) Kuntze. Caesalpiniaceae.

Algarrobilla. A tall, upright, spiny shrub or small tree, with deep-green foliage and greenish-yellow flowers in cylindrical open spikes. The pods are produced in large clusters, and the exposed surfaces show bright scarlet for a long time before maturing; they contain a high percentage of tannin.

For previous introduction see 142572.

144317 to 144323.

From Southern Rhodesia. Seeds presented by Douglas Aylen, Technical Assistant for Soil Conservation, Irrigation Department, Salisbury. Received August 6, 1942.

144317. TEPHROSIA ERIOSEMOIDES Oliver. Fabaceae.

144318. TEPHROSIA RADICANS Baker.

144319. TEPHROSIA TOXICARIA (Sw.) Pers. (*Cracca toxicaria* (Sw.) Kuntze).

For previous introduction see 129364.

144317 to 144323—Continued.

144320. TEPHROSIA sp.

144321. TEPHROSIA VOGELII Hook. f. (*Cracca vogelii* (Hook. f.) Kuntze).

For previous introduction see 139626.

144322. TEPHROSIA sp.

144323. TEPHROSIA sp.

144324 to 144328. CYAMOPSIS TETRAGONOLOBA (L.) Taub. (C. *psoraloides* DC.). Fabaceae. Guar.

From India. Seeds obtained through L. L. Schnare, American Consul General, Calcutta. Received August 4, 1942.

144324. From Pusa Farm, Pusa.

144325. Grown in Chota Nagpur range, including Kanke, Ranchi, and Bihar.

144326. Grown in Sind, Punjab, and on Kathiawar coast; used as cattle feed only.

144327. From the Student Farm, Cawnpore.

144328. From the Botanical Research Farm, Cawnpore.

144329. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From Maryland. Plant growing at the United States Plant Introduction Garden, Glenn Dale. Numbered August 10, 1942.

A selection (from P.I. 121451) with unusually small and narrow leaves.

144330. ERAGROSTIS ECHINOCHLOIDEA Stapf. Poaceae.

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley. Received July 27, 1942.

144331 to 144338. SORGHUM VULGARE Pers. Poaceae. Sorghum.

From the Union of South Africa. Seeds presented by Dr. H. H. Dodds, Director, Experiment Station, Mount Edgecombe, Natal. Received August 10, 1942.

144331. Potch. 996, *Isidomba*.144332. Potch. 998, *Mabediane*.144333. Potch. 999, *Manyoblae*.144334. Potch. 995, *Sidonda*.144335. Potch. 993, *Ufatane*.144336. Potch. 994, *Upondondhlovu*.144337. Potch. 997, *Zibogana*.

144338. Potch. 1001, unnamed; from Natal (Tugela Ferry).

144339 to 144641.

From Chile. Seeds presented by Dr. T. H. Goodspeed, Andes Expedition of the University of California. Received June 20, 1942.

144339. ADENOCaulon CHILENSE Less. Asteraceae.

No. 39.2164. From the Department of Victoria; altitude 1,200 m.

144340. ADESMIA FUENTESII Grandj. Fabaceae.

No. 39.1506. From the Department of Los Andes; altitude 2,200 to 2,280 m.

144341. ADESMIA PARVIFLORA Clos.

No. 39.1682. From the Department of Elqui; altitude 700 m.

144339 to 144641—Continued.**144342. ADESMIA RETUSA** Griseb.

No. 39.2370. From the Department of Llanquihue; altitude 75 m.

144343. AEXTOXICON PUNCTATUM Ruiz & Pav. Euphorbiaceae.

No. 40.1097. From Cunco. A tree with dense foliage, and small colorless scales covering all of its parts. The stiff, narrowly oblong leaves are dark green on the upper surface and light green to whitish beneath. Its small white flowers are borne in short axillary racemes, and the fruits are small, black, olive-shaped drupes. Growing equally well in moist or dry soils, the tree reaches a height of about 40 feet, and because of the beauty of its wood is sometimes used in the making of small furniture.

For previous introduction see 124873.

144344 and 144345. ALONA CARNOSA Lindl. Nolanaceae.

From the Province of Atacama.

144344. No. 39.1939. Altitude 10 m.

144345. No. 39.1944. Altitude 5 m.

144346. ALONA FILIFOLIA (Hook. & Arn.) Johnston.

No. 39.1718. From the Department of La Serena; altitude about 100 m.

144347. ALONA ROSTRATA Lindl.

No. 39.1716. From the Department of Huasco; altitude about 200 m.

144348 and 144349. ALONSOA INCISIFOLIA Ruiz & Pav. Scrophulariaceae.

144348. No. 39.1655. From the Department of Quillota; altitude 1,800 m.

144349. No. 39.1768. From the Department of Illapel; altitude 2,660 m.

144350. ALSTROEMERIA AURANTIACA D.Don. Amaryllidaceae.

Yellow alstroemeria.

No. 40.1132. From Cunco. A plant 2 to 4 feet high with about 50 thin leaves 3 to 4 inches long, and bright-yellow flowers, spotted brown within, in a compound umbel.

For previous introduction see 78874.

144351 and 144352. ALSTROEMERIA PELEGRINA L.

An alstroemeria with thin lanceolate leaves 2 inches long and a flower stem a foot high bearing an umbel of either lilac or pure-white flowers.

144351. No. 40.1048. From Laguna Verde.

144352. No. 40.1092. From Lago Verde.

For previous introduction see 139510.

144353. ALSTROEMERIA sp.

No. 39.1620. From Valparaiso.

144354. ALSTROEMERIA sp.

No. 39.1872. From the Department of Los Andes; altitude 11,000 m.

144355. ALSTROEMERIA sp.

No. 40.1047. From Valparaiso.

144356. ALSTROEMERIA sp.

No. 39.1614. Collected along the road from San Antonio to Valparaiso; flowers brilliant scarlet.

144357. ALSTROEMERIA sp.

No. 39.1619. From Valparaiso; altitude 1,400 to 1,500 m.

144339 to 144641—Continued.

144358. ALSTROEMERIA sp.

No. 39.1313. From the Department of Taltal; altitude about 150 m. The plant is 2 to 4 inches high and grows best in stony soil. The flowers are white to violet, and two segments are marked yellow.

144359. ALSTROEMERIA sp.

No. 40.1142. From the Department of Elqui; altitude 1,400 m.

144360. ALSTROEMERIA sp.

No. 39.1532. From the Department of Elqui; altitude 3,500 to 7,600 m.; flowers small, bluish.

144361. AZARA sp. Flacourtiaceae.

No. 40.1099. From Cuneo.

144362. ALSTROEMERIA sp. Amaryllidaceae.

No. 39.1387. From Laguna Verde, south of Valparaiso. An excellent, brilliant-flowered species from the sea cliffs.

144363. ALSTROEMERIA sp.

No. 39.1612. From Valparaiso; flowers yellow.

144364. ALSTROEMERIA sp.

No. 39.1616. From Isla Guacalda (Huasco).

144365. ALSTROEMERIA sp.

No. 39.1618. Found along the road from Vallenar to San Felix.

144366. ALSTROEMERIA sp.

No. 39.1615. From Taltal.

144367. AMBLYOPAPPUS PUSILLUS Hook. & Arn. Asteraceae.

No. 39.1940. From the Province of Atacama; altitude 5 m.

144368. APLOAPPUS CUNEIFOLIUS Nutt. Asteraceae.

No. 39.1692. From the Department of Los Andes; altitude 3,000 m. A shrubby yellow-flowered composite with stiff alternate leaves. Native to Chile.

For previous introduction see 119267.

144369. APLOAPPUS GLUTINOSUS DC.

No. 39.2314. From the Department of Llanquihue; altitude 75 m.

144370. APLOAPPUS HIRTELLUS Phil.

No. 39.1652. From the Department of La Serena; altitude 100 m.

144371. APLOAPPUS PULCHELLUS DC.

No. 39.1804. From the Department of Illapel; altitude about 560 m.

144372. APIUM LACINIATUM (DC.) Urb. Apiaceae.

No. 39.1654. From the Department of La Serena; altitude 200 m.

144373. ARISTOLOCHIA CHILENSIS Lindl. Aristolochiaceae.

No. 39.1791. From the Department of La Serena; altitude about 100 m.

144374. ARISTOTELIA CHILENSIS (Molina) Stuntz (*A. macqui* L'Her.). Elaeocarpaceae.

No. 40.1062. From San José de la Mariquina. A small evergreen shrub or tree 7 to 15 feet high with attractive ovate, dentate, dark-green leaves 2 to 5 inches long; inconspicuous flowers, and purple edible fruits that resemble small cherries. These fruits are used in Chile for coloring pale wines.

144339 to 144641—Continued.

For previous introduction see 144232.

144375. ASTER sp. Asteraceae.

No. 82. From San José; flowers white.

144376. ASTERISCUM CHILENSE Cham. & Schlecht. Apiaceae.

No. 39.1662. From the Department of Quillota; altitude 1,700 m. A fragrantly aromatic plant that is a refreshing febrifuge, and which yields a great quantity of seeds.

For previous introduction see 33800.

144377. ASTERISCUM POZOIDES Clos.

No. 39.1684. From the Department of Petorca; altitude 2,100 to 2,200 m.

144378. ASTRAGALUS BERTERI Colla. Fabaceae.

No. 39.1810. From the Department of Illapel; altitude 1,800 m.

144379. ASTRAGALUS BUSTILLOSII Clos.

No. 39.1739. From the Department of Elqui; altitude 3,300 m.

144380. ASTRAGALUS CHAMISSONIS (Vogel) Reiche.

No. 40.1135. From the Department of Elqui; altitude 500 m.

144381. ASTRAGALUS COQUIMBENSIS (Hook. & Arn.) Reiche.

No. 39.1679. From the Department of Copiapo; altitude about 10 m.

144382 and 144383. ASTRAGALUS CURVICAULIS (Clos) Reiche.

144382. No. 39.1677. From the Department of Illapel; altitude about 1,000 m.

144383. No. 39.1763. From the Department of Melipilla; altitude about 1,400 to 1,500 m.

144384. ASTRAGALUS DODTI Phil.

No. 39.1680. From the Department of Copiapo; altitude about 10 m.

144385. ASTRAGALUS sp.

No. 39.1917. From the Department of Petorca; altitude 2,700 m. Introduced under the name "losseri," for which a place of publication has not been found.

144386. ASTRAGALUS NUDUS Clos.

No. 39.1784. From the Department of Huasco; altitude 5 to 15 m.

144387. ASTRAGALUS VESICULOSUS Clos.

No. 39.1658. From the Department of Illapel; altitude 2,800 to 3,450 m.

144388. BACCHARIS PATAGONICA Hook. & Arn. Asteraceae.

No. 39.2320. From the Department of Osorno; altitude 780 m.

144389. BAHIA AMBROSIOIDES Lag. Asteraceae.

No. 39.1773. From Taltal.

144390. BLEPHAROCALYX DIVARICATUS (Berg) Ndzu. Myrtaceae.

No. 40.1101. From San José de la Mariquina.

144391. BOMAREA SALSILLA (L.) Mirb. Amaryllidaceae.

No. 39.1456. From Cerro Campana, Province of Valparaiso; altitude 500 to 700 m. A twining vine with parallel-veined, oblong-lanceolate leaves 2 to 4 inches long on twisted petioles, and small reddish flowers marked with blue and purple inside, in compound umbels. Native to Chile.

For previous introduction see 92948.

144339 to 144641—Continued.

144392. BOQUILA TRIFOLIATA (DC.) Decaisne. Lardizabalaceae.

No. 40.1072. From San José de la Mariquina.

For previous introduction see 33851.

144393. BOWLESEA INTEGERRIMA Turcz. Apiaceae.

No. 39.1255. From the Department of Huasco; altitude about 500 m.

144394 and 144395. BRIDGESIA INCISIFOLIA Cambess. Sapindaceae.

144394. No. 40.1136. From the Department of Elqui; altitude 700 m.

144395. No. 40.1161. From the Department of Elqui. Grows on dry slopes.

144396. BUDDLEIA GLOBOSEA Hope. Loganiaceae. Globe butterflybush.

No. 40.1102. From Cunco. A shrub with soft fleshy leaves which are used in treating inflammation and washing wounds. The flowers are yellow, in globose clusters.

For previous introduction see 42864.

144397. CALANDRINIA GRANDIFLORA Lindl. Portulacaceae.

No. 39.1496. From the Department of Quillota; altitude 1,700 to 1,800 m. A succulent shrubby perennial with tortuous stems about 2 feet high, small, fleshy, rhomboid leaves and terminal racemes of few large violet flowers.

For previous introduction see 128876.

144398. CALANDRINIA CYMOSA Phil.

No. 39.1454. From Taltal; altitude about 150 m.

144399. CALANDRINIA LITORALIS Phil.

No. 39.1462. From the Department of Copiapo; altitude about 25 m.

144400. CALANDRINIA TRIFIDA Hook & Arn.

No. 40.1502. From the Department of Elqui; altitude 1,400 m.

144401. CALANDRINIA PARVIFLORA Phil.

No. 40.1156. From the Department of Elqui; altitude 1,400 m.

144402. CALANDRINIA FRIGIDA Barn.

No. 39.1502. From the Department of Illapel; altitude 3,450 m.

144403. CALANDRINIA GAYANA var. HIRTELLA (Phil.) Reiche.

No. 39.1748. From the Department of La Liqua; altitude 3,100 m.

144404. CALANDRINIA POLIA Phil.

No. 39.1529. From the Department of Elqui; altitude 3,400 to 3,500 m., flowers small, pink.

144405. CALANDRINIA SERICEA Hook & Arn.

No. 39.1685. From the Department of Los Andes; altitude 2,200 m.

144406. CALANDRINIA sp.

No. 39.1548. From Taltal.

144407. CALANDRINIA sp.

No. 39.1345. From Huasco. The plant was found growing in 1 foot of sandy soil.

144408. CALANDRINIA sp.

No. 39.1346. From northern Chile. The plant is quite common in this section and it is very well formed. The stems are 2 feet high and bear large, red flowers that measure more than 1½ inches horizontally and

144339 to 144641—Continued.

which usually open one at a time. It will thrive on a sandy beach or in any gravel, or rocky soil.

144409. CALANDRINIA sp.

No. 39.2468. From La Serena. Flowers large, red, calyx and leaves very pubescent.

144410 to 144412. CALCEOLARIA ADSCENDENS Lindl. Scrophulariaceae.

144410. No. 39.1249. From the Department of Huasco; altitude about 200 m.

144411. No. 39.1280. From the Department of Ovalle; altitude about 1,800 m.

144412. No. 39.1478. From the Department of Illapel; altitude about 1,600 m.

144413 and 144414. CALCEOLARIA CORYMBOSA Ruiz & Pav.

144413. No. 39.1467. From the Department of La Serena; altitude about 200 m.

144414. No. 39.1291. From the Department of Illapel; altitude about 500 m. A herbaceous plant, up to 2 feet high, which grows in rock crevices on foggy hills; leaves very woolly; flowers dark yellow to orange, $\frac{3}{4}$ inch long.

144415. CALCEOLARIA LEPIDA Phil.

No. 39.1512. From the Department of Quillota.

144416. CALCEOLARIA PETIOLARIS Cav.

No. 39.1491. From the Department of Valparaiso; altitude 500 m.

144417. CALCEOLARIA sp.

No. 39.1199. From the Department of Los Andes near Juncal, Province of Acancagua; altitude about 2,300 m. Flowers purple.

144418. CALCEOLARIA sp.

No. 39.1481. From the Department of Illapel; altitude about 150 m. Flowers bright yellow.

144419. CALCEOLARIA sp.

No. 39.1551. From Taltal.

144420. CALCEOLARIA sp.

No. 39.1837. From Rio Sobrante, Province of Aconcagua; altitude 3,000 m.

144421. CALCEOLARIA sp.

No. 39.1509. From the Department of Petorca; altitude 1,900 to 2,100 m. Flowers red and yellow.

144422. CALCEOLARIA sp.

No. 39.1344. From the Department of Elqui; altitude 2,900 m.

144423. CALCEOLARIA sp.

No. 39.1348. From the Department of Elqui; altitude 3,000 m.

144424. CALCEOLARIA sp.

No. 39.1476. From the Province of Coquimbo; altitude about 500 m. Bush 0.6 to 0.8 m. high; flowers light greenish yellow to pure yellow.

144425. CALDCLUVIA PANICULATA (Cav.) D. Don. Cunaniaceae. Tiaca.

No. 40.1103. From Cunco. The tree may reach a height of 15 m. The leaves, up to 14 cm. long, are elliptic, serrate, short stemmed, and frequently opposite. The white, aromatic flowers that appear in spring

144339 to 144641—Continued.

are borne in axillary corymbs. The wood is excellent for carriage making.

For previous introduction see 52588.

144426. CALLIANDRA CHILENSIS Benth. Mimosaceae.

No. 40.1137. From the Department of Elqui; altitude 750 m.

144427. CALYCERA SESSILIFLORA Phil. Calyceraceae.

No. 39.1811. From the Department of Illapel; altitude 1,800 to 2,000 m.

144428 and 144429. CAMPSIDIUM CHILENSE Reiss. & Seem. Bignoniacae.

144428. No. 40.1015. From San José.

144429. No. 40.1071. From San José de la Mariquina.

144430. CARDAMINE sp. Brassicaceae.

No. 39.1700. From the Department of Illapel; altitude 2,600 m.

144431. CAREX CATARACTAE R. Br. Cyperaceae.

No. 39.2317. From the Department of Osorno; altitude 780 m.

144432. CENTAUREA ATACAMENSIS (Reiche) Johnston. Asteraceae.

No. 39.1722. From the Department of Taltal; altitude 500 to 600 m.

144433. CENTAUREA CHILENSIS Hook & Arn.

No. 39.1246. From the Department of Copiapo; altitude about 150 m.

144434. CEPHALOPHORA LITORALIS Phil. Asteraceae.

No. 39.1705. From the Department of Taltal; altitude about 100 m.

144435. CEPHALOPHORA URMENETAE Phil.

No. 39.1789. From the Department of La Serena; altitude about 100 m.

144436. CERASTIUM VISCOMUM L. Silenaceae.

No. 39.2313. From the Department of Llanquihue; altitude 100 m.

144437. CESTRUM PARQUI L'Her. Solanaceae. Chilean cestrum.

No. 39.1781. From the Department of Huasco; altitude 100 to 800 m. A semihardy, nearly glabrous shrub native to Chile. The leaves are lanceolate to oblong, and the long tubular flowers are sessile, in open panicles, greenish yellow, and are very fragrant at night. It is much grown in warm countries where it blooms continuously.

For previous introduction see 128817.

144438. CHAETANTHERA ACEROSA (Remy) Benth. & Hook. f. Asteraceae.

No. 39.1672. From the Department of Elqui; altitude 3,300 to 3,600 m.

144439. CISSUS STRIATA Ruiz & Pav. (*Vitis striata* Miq.) Vitaceae. Striped treebine.

No. 40.1068. From San José de la Mariquina. A low, shrubby, evergreen vine with small leaves of 3 to 5 leaflets and yellowish flowers in rather dense clusters.

For previous introduction see 62239.

144440. CLEMATIS sp. Ranunculaceae.

No. 39.1867. From the Province of Valparaiso.

144441 and 144442. CLEOME CHILENSIS DC. Capparidaceae.

144441. No. 39.1226. From the Department of Taltal; altitude 50 m.

For previous introduction see 144241.

144442. No. 30.1818. From the Department of Taltal.

144339 to 144641—Continued.

144443. *COLLOMIA BIFLORA* (Ruiz & Pav.) Brand. Polemoniaceae.

No. 39.1688. From the Department of Los Andes; altitude 2,100 m.

144444. *CONYZA CHILENSIS* Spreng. Asteraceae.

No. 39.1802. From the Department of Illapel.

144445. *CORDIA DECANDRA* Hook & Arn. Boraginaceae.

No. 39.1790. From the Department of La Serena; altitude about 20 m.

144446. *CORIARIA EUSCIFOLIA* L. Coriariaceae.

No. 40.1022. From Chile; rather poisonous.

144447. *CRINODENDRON PATAGUA* Molina (*Tricuspidaria dependens* R. & P.) Elaeocarpaceae.

Patagua.

No. 39.1862. From the Province of Valparaiso. An ornamental tree that grows well in swampy regions. It has small, bell-shaped, white fragrant flowers, and the wood is used for cabinet making and the bark for tanning.

For previous introduction see 54628.

144448. *CRISTARIA DISSECTA* Hook. & Arn. Malvaceae.

No. 39.1701. From the Department of Quillota; altitude 1,700 m.

144449 and 144450. *CRUCKSHANKSIA PUMILA* Clos. Rubiaceae.

144449. No. 39.1333. From the Department of Taltal. A tiny plant with relatively enormous yellow calyces and tubular yellow flowers; found dotting roadsides in various gravelly soils.

144450. No. 40.1151. From the Department of Ovalle; altitude 1,500 m.

144451. *CRUCKSHANKSIA* sp. Rubiaceae.

No. 39.1624. From the Department of Taltal.

144452. *CRUCKSHANKSIA* sp.

No. 39.1625. From Huasco.

144453. *CRUCKSHANKSIA* sp.

No. 39.1627. From the Island of Huacolda (Huasco).

144454. *CRYOPHYTUM CRYSTALLINUM* (L.) N. E. Brown. Aizoaceae.

No. 39.1943. From the Province of Atacama.

144455. *CYPHOCARPUS INNOCUUS* Sandwith. Campanulaceae.

No. 40.1150. From the Department of Ovalle; altitude 1,500 m.

144456. *CYTISUS MONSPESSULANUS* L. Fabaceae.

Broom.

No. 39.1758. From the Department of Valparaiso; altitude 2,900 m. A strong, erect-growing shrub that is evergreen in regions where the winters are mild. It becomes 10 feet or less high, with grooved branches, trifoliate leaves having obovate leaflets less than an inch long, and fragrant, bright-yellow flowers in 3-flowered to 9-flowered headlike racemes on leafy branches. It is native to the Canary Islands.

For previous introduction see 80314.

144457. *DAUCUS MONTEVIDENSIS* Spreng. Apiaceae.

No. 39.1260. From the Department of La Serena; altitude about 100 m.

144458. *DESCURAINIA PIMPINELLIFOLIA* var. *GLAUCESCENS* (Phil.) O. E. Schulz. Brassicaceae.

No. 39.1657. From the Department of Illapel; altitude 2,620 m.

144459. *DESCURAINIA* sp.

No. 39.1740. From the Department of Elqui; altitude 3,300 m.

144339 to 144641—Continued.

- 144460 and 144461. *DISCARIA SERRATIFOLIA* (Vent.) Mast. Rhamnaceae.
 144460. No. 40.1006. From Chile.
 144461. No. 40.1061. From San José de la Mariquina.
144462. *DOMEYKOA OPPOSITIFOLIA* Phil. Apiaceae.
 No. 39.1661. From the Department of Taltal; altitude about 75 m.
144463. *DONIOPHYTON ANOMALUM* (D. Don) Kurtz. Asteraceae.
 No. 39.1671. From the Department of Elqui; altitude from 3,200 to 3,300 m. Flowers reddish yellow.
- 144464 to 144466. *EMBOTHRIUM COCCINEUM* Forst. Proteaceae. Netro.
 144464. No. 39.2294. From the Department of Llanquihue; altitude 50 m.
 144465. No. 40.1055. From San José de la Mariquina.
 144466. No. 40.1106. From San José de la Mariquina.
144467. *ENCELIA CANESCENS* var. *LANUGINOSA* I. M. Johnst. Asteraceae.
 No. 39.1693. From the Department of Taltal; altitude about 100 m.
144468. *ENCELIA CANESCENS* var. *TOMENTOSA* (Walp.) Ball.
 No. 39.1937. From the Province of Atacama; altitude 10 m.
144469. *EPHEDRA* sp. Gnetaceae.
 No. 39.1687. From the Department of Petorca; altitude 2,280 m. Bracts orange red.
144470. *EPHEDRA* sp.
 No. 39.1777. From the Department of Copiapo; altitude 50 m.
144471. *EPILOBIUM CHILENSE* Hausskn. Onagraceae.
 No. 39.1771. From the Department of Los Andes; altitude 1,900 m.
144472. *EPILOBIUM GLAUCUM* Phil.
 No. 39.1770. From the Department of Los Andes; altitude 1,900 m.
144473. *EPILOBIUM VALDIVIENSE* Hausskn.
 No. 39.2394. From the Department of Victoria; altitude 1,140 to 1,180 m.
144474. *ERIGERON* sp. Asteraceae.
 No. 39.2398. From the Island of Mas Atierra (Weber's garden); flowers small, white.
144475. *ESCALLONIA PULVERULENTA* (Ruiz & Pav.) Pers. Escalloniaceae.
 No. 39.1861. From Cerro. A shrub with large, thick, silvery-gray, oval or elliptic leaves and white flowers in long, dense, terminal racemes.
 For previous introduction see 128878.
144476. *ESCALLONIA* sp.
 No. 40.1065. From San José de la Mariquina.
144477. *EUCRYPTPHIA CORDIFOLIA* Cav. Eucryptphiaceae.
 No. 40.1165. From Cuncos. An ornamental and useful tree that attains a height of about 15 feet, with thick, leathery, shining leaves and aromatic white flowers that appear in the spring and make the tree a beautiful sight. The bark, rich in tannin, is utilized in dyeing and also in medicine.
 For previous introduction see 52589.
144478. *EUPHRASIA SUBEXSERTA* Benth. Scrophulariaceae.
 No. 39.2199. From the Department of Victoria; altitude 950 to 1,100 m.

144339 to 144641—Continued.

- 144479.** FITZROYA CUPPRESSOIDES (Molina) I. M. Johnst. Pinaceae.
No. 39.2319. From the Department of Osorne; altitude 780 m.
- 144480.** FLOURENSIA THURIFERA (Molina) DC. (*Helianthus thurifer* Molina). Asteraceae.
No. 40.1152. From the Province of Coquimbo; altitude 660 m. A shrub 1 to 1.5 m. high, abounding in an aromatic resin, which in early times was used for incense. Flowers bright golden yellow.
For previous introduction see 33872.
- 144481.** FUCHSIA MAGELLANICA Lam. Onagraceae. **Magellan fuchsia.**
No. 40.1108. From San José de la Mariquina.
For previous introduction see 131910.
- 144482.** FUCHSIA ROSEA Ruiz & Pav.
No. 39.1258. From the Province of Coquimbo; altitude about 100 m. Shrub 2 to 3 m. high; flowers red, small.
- 144483.** GAULTHERIA BRACHYBOTRYS DC. Ericaceae.
No. 39.1061. From San José de la Mariquina.
- 144484.** GAULTHERIA sp.
No. 39.2309. From the Department of Victoria; altitude 1,140 to 1,180 m.
- 144485.** GENTIANA sp. Gentianaceae.
No. 39.2153. From the Province of Cautin; altitude 950 to 1,100 m. A perennial herb 0.2 m. high. Flowers pink.
- 144486.** GENTIANA sp.
No. 39.1843. From the Department of Elqui; altitude 3,000 m.
- 144487.** GERANIUM MAGELLANICUM Hook f. Geraniaceae.
No. 39.2435. From Termas Tolhuaca.
- 144488.** GERANIUM sp.
No. 39.1865. From Chile.
- 144489.** GERANIUM sp.
No. 39.1262. From the Department of La Serena, Province of Coquimbo; altitude about 200 m. A perennial herb 0.1 m. high.
- 144490.** GERANIUM sp.
No. 39.1803. From the Department of Illapel; Province of Coquimbo; altitude about 560 m. A perennial herb 0.1 to 0.2 m. high, flowers pink.
- 144491.** GERARDIA LINARIOIDES Cham. & Schl. Scrophulariaceae.
No. 40.1163. From the Department of Elqui, Province of Coquimbo; altitude 1,300 m. Flowers pink, 0.6 to 1 m. high.
- 144492 to 144495.** GILIA CRASSIFOLIA Benth. Polemoniaceae.
144492. No. 39.1690. From the Department of Petorca, Province of Aconcagua; altitude 1,900 m. Flowers blue, 0.3 m. high.
- 144493.** No. 39.1793. From the Department of Elqui; altitude about 1,000 m. Flowers pink to white, 0.1 m. high.
- 144494.** No. 39.1806. From the Department of Illapel; altitude about 2,800 m. Flowers pink to white.
- 144495.** No. 39.1809. From the Department of Illapel; altitude 1,800 m. An annual herb 0.2 m. high, corolla lobes pink, tube white and yellow.
- 144496.** GILIA GRACILIS Hook. Polemoniaceae.

144339 to 144641—Continued.

No. 39.1766. From the Department of Quillota; altitude 1,700 to 1,800 m. An annual herb 0.1 m. high, flowers rose purple, yellow at base.

144497 and 144498. *GREIGIA SPHACELATA* (Ruiz & Pav.) Regel. Bromeliaceae.

144497. No. 39.1884. From southern Chile near Puerto Montt. 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 seedy fruit is eaten by the natives.

For previous introduction see 138470.

144498. No. 40.1086. From San José de la Mariquina.

144499. *GYMNOPHYTON FOLIOSUM* Phil. Apiaceae.

No. 39.1240. From the Department of Taltal; altitude about 30 m. Flowers wine red, bush 1 m. high.

144500. *HYPERICUM HUMIFUSUM* L. Hypericaceae.

No. 39.2811. From the Department of Victoria; altitude 950 to 1,050 m. A perennial herb 3 cm. high; flowers yellow.

144501. *HYPOCHAERIS SCORZONERAE* (DC.) F. Muell. Cichoriaceae.

No. 39.1325. From the Department of Illapel; altitude about 150 m. A perennial herb 0.2 m. high; flowers yellow.

144502. *HYPOCHAERIS RADICATA* L.

No. 39.2386. From the Department of Victoria; altitude 1,140 to 1,180 m. A perennial herb 0.4 m. high, flowers yellow.

144503. *HYPOCHAERIS* sp.

No. 39.1359. From the Province of Aconcagua.

144504. *HYPOCHAERIS* sp.

No. 39.1360. From the Province of Aconcagua.

144505. *HYPOCHAERIS* sp.

No. 39.1358. From the Department of Valparaiso; altitude 290 m.

144506. *HYPOCHAERIS* sp.

No. 39.1744. From the Department of Petorca; altitude 2,100 m. A perennial herb 0.15 m. high, flowers lemon yellow.

144507. *HYPOCHAERIS* sp.

No. 39.1379. From a hill south of Huasco.

144508. *HYPOCHAERIS* sp.

No. 39.1380. From Morro de Caldera; grows on sandy flats and rocky slopes.

144509. *HYPOCHAERIS* sp.

No. 39.1311. From the Department of Huasco; altitude about 5 to 15 m. A perennial herb 0.3 m. high, flowers pale yellow.

144510. *HYPOCHAERIS* sp.

No. 39.1307. From the Department of Copiapo; altitude about 50 m., flowers bright yellow, involucral bracts red-tipped and hairy.

144511 to 144513.

From the Department of Elqui.

144511. *IPOMOEA* sp. Convolvulaceae.

No. 40.1153. Altitude 1,100 m.

144339 to 144641—Continued.

144512. *IPOMOEA* sp.

No. 40.1140. Altitude 1,100 m.

144513. *IPOMOEA* sp.

No. 40.1138. Altitude 640 m.

144514. *LAPAGERIA ROSEA* Ruiz & Pav. Liliaceae. Copihue.

No. 39.2277. From Temuco. An evergreen climber of slow growth, with slender, wiry stems; alternate, narrowly ovate leaves; and bright-crimson, pendent, tubular flowers about 3 inches long in the axils of the upper leaves or in terminal racemose clusters.

For previous introduction see 141356.

144515. *LAPSANA COMMUNIS* L. Cichoriaceae.

No. 39.1750. From the Province of Aconcagua; altitude 1,950 m. An annual herb to 1 m. high; flowers yellow.

144516. *LATHYRUS* sp. Fabaceae.

No. 40.1080. From San José de la Mariquina.

144517. *LEPTOCARPHA RIVULARIS* DC. Asteraceae.

No. 40.1075. From San José de la Mariquina.

144518. (Undetermined.)

No. 39.2383. From the Department of Victoria; altitude 950 to 1,050 m. Flowers pink.

144519. *LINARIA TEXANA* Scheele. Scrophulariaceae.

No. 39.1234. From the Department of Taltal; altitude about 75 m. Flowers large, violet, very fragrant. It grows to a foot high and on rocky slopes.

144520. *LOTUS SUBPINNATUS* Lag. Fabaceae.

No. 39.1675. From the Department of Illapel; altitude about 400 m.

144521 and 144522. *LUPINUS MICROCARPUS* Sims. Fabaceae.

144521. No. 39.1717. From the Department of Valparaiso; altitude 290 m.

144522. No. 39.1786. From the Department of La Serena; altitude about 200 m.

144523. *LUPINUS* sp.

No. 39.1387. Found between Cartagena and San Antonio, south of Valparaiso; a rather large, compact bush with yellow flowers.

144524. *LUZULA* sp. Juncaceae.

No. 39.1769. From the Department of Illapel; altitude 3,350 to 3,500 m. Flowers reddish.

144525. *LYCIUM CHILENSE* Bert. Solanaceae.

No. 39.1683. From Las Cruces, south of Valparaiso; altitude 15 m. Shrub small, dense, stiff, grows near the sea.

144526. *MALACOTHRIX COULTERI* A. Gray. Cichoriaceae.

No. 39.1792. From the Department of Elqui; altitude about 860 m.

144527. *MALESHERBIA PANICULATA* D. Don. Passifloraceae.

No. 39.1681. From the Department of Huasco; altitude about 600 m.

144528. *MALACOCARPUS* sp. Cactaceae.

No. 39.1632. From the Province of Valparaiso.

144339 to 144641—Continued.**144529. MALACOCARPUS sp.**

No. 39.1630. From the Province of Valparaiso.

144530. MALACOCARPUS CURVISPINUS (Bert.) Britt. & Rose.

No. 39.1631. From the Province of Valparaiso.

144531. MATHEWSIA INCANA Phil. Brassicaceae.

No. 39.1247. From the Department of Copiapo; altitude about 150 m.

144532. MENONVILLEA CHILENSIS Turcz. Brassicaceae.

No. 39.1242. From the Department of Taltal; altitude about 125 m.

144533. MICROPHYES LITORALIS Phil. Silenaceae.

No. 39.1238. From the Department of Taltal; altitude about 30 m.

144534. MIMULUS GLABRATUS H. B. K. Scrophulariaceae.

No. 39.2422. From the Department of Illapel; altitude 1,300 m.

144535 and 144536. MIMULUS LUTEUS L.

144535. No. 39.1504. From the Department of Los Andes; altitude 1,900 m.

144536. No. 39.1520. From the Province of Valparaiso; altitude 600 m.

144537. MIMULUS sp.

No. 39.1528. From the Department of Elqui; altitude 3,400 m.

144538 and 144539. MONNINA ANGUSTIFOLIA DC. Polygalaceae.

144538. No. 39.1651. From the Department of Elqui; altitude 860 m.

144539. No. 39.1686. From the Department of Quillota; altitude 1,600 m.

144540. MUTISIA sp. Asteraceae.

No. 40.1078. From San José de la Mariquina.

144541. NEOPORTERIA NIDUS (Söhrens) Britt & Rose. Cactaceae.

No. 39.1634. From Valparaiso.

144542. NEOPORTERIA sp.

No. 39.1633. From Valparaiso.

144543. NOLANA ACUMINATA Dun. Nolanaceae.

No. 39.1269. From the Department of Ovalle; altitude about 500 m.

144544. NOLANA APLOCARYOIDES (Gaud.) I. M. Johnst.

No. 39.1948. From the Province of Atacama; altitude 100 m.

144545. NOLANA DIVARICATA (Lindl.) I. M. Johnst.

No. 39.1678. From the Department of Copiapo; altitude about 10 m.

144546. NOLANA RUPICOLA Gaud.

No. 39.1310. From the Department of Huasco; altitude about 10 to 15 m. A lovely, very rare plant found on rocky cliffs. The flower is 8 cm. across, white with a blue border and yellow throat.

144547. NOLANA sp.

No. 39.1854. From the Island of Guacolda (Huasco).

144548. NOLANA sp.

No. 39.1855. From Taltal.

144549 and 144550. NOTHOFAGUS OBLIQUA (Mirb.) Oerst. Fagaceae.

144549. No. 40.1064. From San José de la Mariquina.

144339 to 144641—Continued.

144550. No. 40.1117. From Cunco.

For previous introduction see 124878.

144551. NOTOTRICHE COMPACTA (C. Gay) A. W. Hill. Malvaceae.

No. 39.1895. From the Department of La Ligua; altitude 3,600 to 3,700 m.

144552 to 144554. OENOTHERA CONTORTA Lehm. Onagraceae.

144552. No. 39.1251. From the Department of Huasco; altitude about 600 m.

144553. No. 39.1649. From the Department of La Serena; altitude 30 m.

144554. No. 39.1764. From the Department of Valparaiso; altitude 10 m.

144555. OENOTHERA COQUIMBENSIS C. Gay.

No. 39.1715. From the Department of Copiapo; altitude about 10 m.

144556. OENOTHERA ROSEA Soland.

No. 39.1698. From the Department of Elqui; altitude about 700 m.

144557. OPHRYOSPORUS TRIANGULARIS Meyen. Asteraceae.

No. 39.1942. From the Province of Atacama; altitude 5 m.

144558. OPUNTIA sp. Cactaceae.

No. 40.1134. From the Department of Elqui; altitude 3,360 m.

144559. ORTHOCARPUS ATTENUATUS A. Gray. Scrophulariaceae.

No. 39.1800. From the Department of Illapel; altitude about 560 m.

144560. OURISIA SERPYLLIFOLIA Benth. Scrophulariaceae.

No. 39.1689. From the Department of Los Andes; altitude 1,800 to 2,200 m.

144561. OURISIA COCCINEA Pers.

No. 39.2151. From the Department of Victoria; altitude 950 to 1,100 m.

144562. OXALIS BULBOCASTANUM Phil. Oxalidaceae.

No. 39.1455. From the Department of Taltal; altitude about 150 m.

144563. OXALIS GIGANTEA Barn.

No. 39.1312. From the Department of Huasco; altitude about 35 m.

144564. OXALIS LAXA Hook & Arn.

No. 39.1518. From the Province of Valparaiso; altitude 1,150 m.

144565. OXALIS LINEATA Hook.

No. 39.1479. From the Department of Illapel; altitude about 2,700 m.

144566. OXALIS MARITIMA Barn.

No. 39.1261. From the Department of La Serena; altitude about 200 m.

144567. OXALIS MEGALORRHIZA Jacq.

No. 39.1482. From the Department of Illapel; altitude about 150 m.

144568. OXALIS MICRANTHA Colla.

No. 39.1466. From the Department of La Serena; altitude about 200 m.

144569. OXALIS PLATYPILA Hook.

No. 39.1524. From the Department of Elqui.

144570. OXALIS sp.

No. 39.1472. From the Department of Elqui; altitude about 700 m.; flowers yellow.

144339 to 144641—Continued.

144571. *OXALIS* sp.

No. 40.1053. From San José de la Mariquina.

144572. *OXALIS* sp.

No. 40.1087. From San José de la Mariquina.

144573. *OXALIS* sp.

No. 39.2204. From the Department of Victoria; altitude 1,000 to 1,180 m.

144574. *PELARGONIUM* sp. Geraniaceae.

No. 39.1398. From Las Cruces, south of Valparaiso; flowers bicolored.

144575. *PEUMUS BOLDUS* Molina. Monimiaceae.

No. 39.1733. From the Province of Valparaiso; altitude 200 to 700 m. A small evergreen tree or large shrub, with opposite, very rough, ovate-obtuse leaves. The small white flowers, $\frac{1}{2}$ inch across, are not very showy but are attractive to bees, and are in small panicles; the edible fruits are sweet and aromatic. The exceedingly hard wood is used for tools and the bark is used for tanning and dyeing.

For previous introduction see 129005.

144576. *PHRODUS BRIDGESII* Miers. Solanaceae.

No. 39.1697. From the Department of Elqui; altitude about 660 m.

144577. *PINTOA* sp. Zygophyllaceae.

No. 39.1309. From the Department of Huasco; altitude about 800 m. Introduced under the name "ruicola," for which a place of publication has not been found.

144578. *PODANTHUS MITQUI* Lindl. Asteraceae.

No. 39.1799. From the Department of Illapel; altitude about 560 m. An evergreen shrub 3 feet high, with yellow flowers appearing in autumn.

For previous introduction see 99457.

144579. *POLEMONIUM GAYANUM* (Wedd.) Brand. Polemoniaceae.

No. 39.1656. From the Department of Illapel; altitude about 2,800 m.

144580. *POLYACHYRUS FUSCUS* (Meyen) Walp. Asteraceae.

No. 39.1951. From the Province of Atacama; altitude 5 m.

144581. *ROSA CANINA* L. Rosaceae.

Dogbrier.

No. 40.1070. From San José de la Mariquina.

For previous introduction see 54183.

144582. *RUTA CHALEPENSIS* L. Rutaceae.

No. 39.1272. From the Department of Ovalle; altitude about 500 m.

144583. *SALPIGLOSSIS SINUATA* Ruiz & Pav. Solanaceae.

No. 39.1490. From the Department of Valparaiso; altitude 50 to 60 m.

144584. *SALPIGLOSSIS SINUATA* Ruiz & Pav.

No. 39.1510. From the Department of Petorca; altitude 1,900 to 2,200 m.

144585. *SALPIGLOSSIS* sp.

No. 39.1511. From the Department of Quillota; altitude 1,600 m. Flowers deep purple.

144586. *SALVIA* sp. Lamiaceae.

No. 39.1824. From Dr. Reed's garden, Valparaiso; flowers dark blue, an excellent plant.

144339 to 144641—Continued.

144587. *SALPIGLOSSIS PARVIFLORA* Phil. Solanaceae.
No. 39.1741. From the Department of Elqui; altitude 3,300 m. Flowers yellow.
144588. *SATUREJA MULTIFLORA* (Ruiz & Pav.) Briq. Menthaceae.
No. 40.1076. From San José de la Mariquina.
144589. *SCHINUS POLYGAMUS* (Cav.) I. M. Johnst. (*S. dependens* Ortego). Anacardiaceae.
No. 40.1005.
For previous introduction see 88256.
144590. *SCHIZOPETALON RUPESTRE* (Barn.) Reiche. Brassicaceae.
No. 39.1737. From the Department of Elqui; altitude 3,400 m.
144591. *SENECIO DENTICULATUS* (Hook. & Arn.) DC. Asteraceae.
No. 40.1003. From Cunco.
- 144592 and 144593. *SENECIO HAKEIFOLIUS* var. *OCHROLEUCUS* (Phil.) Reiche.
144592. No. 39.1788. From the Department of La Serena; altitude about 100 m.
144593. No. 39.1796. From the Department of Illapel; altitude about 2,700 m.
144594. *SENECIO SINUATILOBUS* var. *LITTORALIS* DC.
No. 39.1273. From the Department of Ovalle; altitude about 300 to 500 m.
144595. *SENECIO* sp.
No. 39.1916. From the Department of Petorca; altitude 3,100 m.; flowers yellow.
144596. *SENECIO* sp.
No. 39.1650. From the Department of La Serena; altitude 100 m.; flowers yellow.
144597. *SILENE CUCUBALUS* Wibel. Silenaceae.
No. 39.2152. From the Department of Victoria; altitude 1,140 to 1,180 m.
144598. *SISYRINCHIUM* sp. Iridaceae.
No. 39.1317. From the Department of Illapel; altitude about 500 m.; flowers bright yellow.
144599. *SISYRINCHIUM* sp.
No. 40.1007. From San José de la Mariquina.
144600. *SOLANUM BRACHYANTHERUM* Phil. Solanaceae.
No. 39.1947. From the Province of Atacama; altitude 100 m.
144601. *SOLANUM ELAEAGNIFOLIUM* Cav.
No. 39.1703. From the Department of Huasco; altitude about 150 to 800 m.
144602. *SOLANUM ELAEAGNIFOLIUM* Cav.
No. 39.1946. From Calderon; altitude 5 m.
144603. *SOLANUM PINNATUM* Cav.
No. 39.1765. From the Department of Valparaiso; altitude 5 m.
144604. *SOLANUM* sp.
No. 40.1125. From Cunco.

144339 to 144641—Continued.

144605 and 144606. *SOPHORA TETRAPTERA* J. Miller. Fabaceae.

Fourwing sophora.

A large shrub or small tree up to 30 feet high. The green pinnate leaves and large clusters of yellow flowers make it an attractive ornamental.

144605. No. 40.1059. From San José de la Mariquina.

144606. No. 40.1004.

For previous introduction see 136022.

144607. *SPERGULARIA DEPAUPERATA* (Gay) Rohrb. Silenaceae.

No. 39.1746. From the Department of Petorca; altitude 3,100 m.

144608. *SPHAERALCEA OBTUSILOBA* (Hook.) Don. Malvaceae.

No. 39.1785. From the Department of Serena; altitude 200 m.

144609. *STACHYS GRANDIDENTATA* Lindl. Menthaceae.

No. 39.1805. From the Department of Illapel; altitude about 560 m.

144610. *STACHYS SERRATA* Clos.

No. 39.1798. From the Department of Illapel; altitude about 150 m.

144611. *STACHYS* sp.

No. 39.1726. From the Province of Valparaiso; altitude 1,150 m.; flowers pink to red.

144612 to 144614. *STELLARIA CUSPIDATA* Schlecht. Silenaceae.

144612. No. 39.1275. From the Department of Ovalle; altitude about 300 to 500 m.

144613. No. 39.2165. From the Department of Victoria; altitude 950 to 1,050 m.

144614. No. 39.1783. From the Department of La Serena; altitude 200 m.

144615. *STENOLOBIUM AREQUIPENSE* Sprague. Bignoniaceae.

No. 39.1125. From Cunco. An erect shrub up to 6 feet high, with slender 4-angled branches and pinnate leaves 4 to 5 inches long. The funnel-shaped orange flowers are 2 to 3 inches long and are borne in terminal racemes 4 to 8 inches long.

For previous introduction see 128918.

144616. *CAESALPINIA SPINOSA* (Molina) Kuntze. Caesalpiniaceae.

No. 40.1162. From the Department of Elqui; altitude 800 m.

For previous introduction see 144316.

144617. *TECOMA* sp. Bignoniaceae.

No. 39.1864. From Valparaiso; flowers large, fragrant, yellow.

144618. *TRICHOCEREUS* sp. Cactaceae.

No. 39.1640. From the Department of Los Andes.

144619. *CHAETANTHERA* sp. Asteraceae.

No. 39.1816. From the Island of Guacoldo. Received as *Tylloma*, a genus now considered synonymous with *Chaetanthera*.

144620. *CHAETANTHERA* sp.

No. 39.1832. From Taltal. Received as *Tylloma*, a genus now considered synonymous with *Chaetanthera*.

144621. *UGNI MOLINAE* (Barn.) Turcz. (*Myrtus molinæ* Barn.). Myrtaceae.

144339 to 144641—Continued.

No. 40.1085. From San José de la Mariquina. An evergreen shrub with leathery ovate leaves much like those of the myrtle, but with smaller flowers, shorter enclosed stamens and reflexed sepals, and 5 petals. It is sometimes grown on walls and the edible berries are sold in Chilean markets.

For previous introduction see 124048.

144622. VALERIANA BRIDGESII Hook. & Arn. Valerianaceae.

No. 39.1276. From the Department of Ovalle; altitude about 300 to 500 m.

144623. VALERIANA sp.

No. 39.2433. From the Department of Victoria; altitude about 1,140 to 1,180 m.; flowers greenish white.

144624. VERBASCUM sp. Scrophulariaceae.

No. 39.1819. From Valparaíso.

144625. VERBENA ORIGENES Phil. Verbenaceae.

No. 39.1667. From the Department of Elqui; altitude 3,200 to 3,500 m.

144626. VERBENA SULPHUREA Don.

No. 39.1808. From the Department of Illapel; altitude 3,440 m.

144627 and 144628. VERONICA ANAGALLIS-AQUATICA L. Scrophulariaceae.

144627. No. 39.1628. From the Department of Ovalle; altitude about 500 m.

144628. No. 39.1751. From the Department of Los Andes; altitude 1,950 m.

144629. VERONICA PERSICA Poir.

No. 39.1122. From San José de la Mariquina.

144630. Vicia APICULATA Phil. Fabaceae.

No. 39.2225. From Tolhuaca; altitude 1,100 m., flowers lavender.

144631. Vicia NIGRICANS Hook. & Arn.

No. 39.1731. From Valparaíso; altitude 1,500 m., flowers light yellow.

144632. VIOLA sp. Violaceae. *Violet.*

No. 39.1815. From the Department of Elqui; altitude about 660 m., flowers yellow.

144633. VIOLA OVALLEANA Phil.

No. 39.1285. From the Department of Illapel; altitude about 2,700 m., flowers rosettes with reddish leaves, white-netted.

144634. VIOLA OVALLEANA Phil.

No. 39.1691. From the Department of Petorca; altitude 2,200 m.

144635. VIOLA POLYPODA Turcz.

No. 39.1243. From the Department of Copiapo; altitude about 150 m.

144636. VIOLA POLYPODA Turcz.

No. 39.1336. From the Department of Copiapo; altitude about 50 to 100 m. An annual which grows on sunny gravel and granite slopes; flowers small, yellow.

144637. VIOLA PUSILLA Hook. & Arn.

No. 39.1290. From the Department of Illapel; altitude 2,700 m.

144638. VIOLA PUSILLA Hook. & Arn.

No. 39.1495. From the Department of Quillota; altitude 1,700 m.

144339 to 144641—Continued.

144639. *VIOLA RUBELLA* Cav.

No. 40.1009.

144640. *VIOLA TALTALENSIS* W. Becker.

No. 39.1231. From the Department of Taltal; altitude about 75 m.

144641. *WISTERIA* sp. Fabaceae.

No. 39.1826. From Valparaiso.

144642 and 144643. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

From Ohio. Budsticks presented by L. Havis, Agricultural Experiment Station, Wooster. Received August 15, 1942.

144642. Kette.

144643. Zarn.

144644 and 144645. *PRUNUS ARMENIACA* L. Amygdalaceae.

Apricot.

From Canada. Budsticks presented by L. M. Howlett, Westbank, British Columbia. Received August 17, 1942.

144644. Hall's Blenheim, C-14.

144645. Sport, F-27.

144646. *TARAXACUM KOK-SAGHYZ* Rodin. Cichoriaceae.

Dandelion.

From the Union of Soviet Socialist Republics. Received August 17, 1942.

This dandelion is native to Turkistan and is cultivated in the Soviet Union as a source of rubber.

For previous introduction see 143989.

144647 and 144648. *PRUNUS DOMESTICA* L. Amygdalaceae.

Common plum.

From New York. Plants presented by the New York State Agricultural Experiment Station, Geneva. Received February 23, 1937.

144647. Kahinta.

144648. Red Wing.

144649 and 144650.

From New Zealand. Plants presented by H. R. Wright, Auckland. Received August 21, 1934.

144649. *PRUNUS SPINOSA* L. Amygdalaceae.Variety *purpurea*.144650. *PRUNUS* sp.144651. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.

From Minnesota. Plants presented by the Andrews Nursery Co., Faribault. Received April 10, 1941.

Scout.

144652. *PRUNUS ARMENIACA* L. Amygdalaceae.

From Delaware. Plant received from Bunting's Nurseries, Selbyville. Received March 10, 1941.

Manchurian.

144653. PRUNUS ARMENIACA L.

From Minnesota. Plant presented by Andrews Nursery Co., Faribault. Received April 10, 1941.

Ninguta.

144654 to 144656. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Numbered August 18, 1942.

144654. Early Red.

144655. Gage Elberta.

144656. Poly.

144657. PITHECELLOBIUM BREVIFOLIUM Benth. Mimosaceae.

From Texas. Seeds presented by Peter Heinz, Brownsville. Received August 19, 1942.

An ornamental evergreen shrub or small tree about 18 ft. high, found in semiarid situations. It has short spines, pinnate leaves, and pale cream-colored flowers in headlike spikes.

For previous introduction see 75261.

144658 and 144659.

From Guatemala. Seeds presented by Wilson Popenoe, through Dr. John R. Shuman, Plant Geneticist, Merck & Co., Rahway, N. J. Received August 19, 1942.

144658. CINCHONA OFFICINALIS L. Rubiaceae.

For previous introduction see 144102.

144659. CINCHONA PUBESCENS Vahl. (*C. succirubra* Pav.).

For previous introduction see 144105.

144660. TARAXACUM KOK-SAGHYZ Rodin. Cichoriaceae.

From the Union of Soviet Socialist Republics. Received August 24, 1942.

For previous introduction see 144646.

144661 and 144662. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From California. Plants growing at the United States Plant Introduction Garden, Chico. Numbered August 27, 1942.

144661. Selection (J-4-46) from P.I. 99243.

144662. Selection (J-4-48) from P.I. 99243.

144663. SWINGLEA GLUTINOSA (Blanco) Merrill. Rutaceae.

From the Canal Zone. Seeds presented by the Experimental Gardens, Summit. Received August 28, 1942.

A small spiny tree, native to the Philippine Islands, with trifoliolate leaves, small clusters of rather large white flowers and oblong, hard-shelled fruits. It is used as a stock for commercial citrus varieties.

For previous introduction see 142571.

144664. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.

Sweetpotato.

From Mexico. Tubers presented by Robert Morgadanes, New Orleans, La. Received September 1, 1942.

An extraordinarily large variety, with tubers weighing up to 55 pounds. In Mexico these are used in making a sort of preserve or candy.

144665 to 144669.

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley. Received August 24, 1942.

144665. CLEMATIS BRACHIATA Thunb. Ranunculaceae.

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

144666. ERAGROSTIS sp. Poaceae.

Grass.

144667. ERAGROSTIS BRIZANTHA Nees.

Grass.

For previous introduction see 144330.

144668. ERAGROSTIS LEHMANNIANA Nees.

Grass.

For previous introduction see 144091.

144669. ERAGROSTIS POROSA Nees.

Grass.

144670. CASTILLA ELASTICA Cerv. Moraceae. Mexican rubber tree.

From Mexico. Seeds presented by Raymond Stadelman, Oaxaca. Received September 4, 1942.

For previous introduction see 143986.

144671 to 144674. AVENA SATIVA L. Poaceae.

Oats.

From Australia. Seeds presented by the Department of Agriculture, Melbourne, Victoria. Received August 31, 1942.

144671. Algeribee. A new single plant selection of the midseason type that has outyielded Algerian for both hay and grain in many districts of Victoria. It is slightly earlier and taller with larger heads and grain; therefore, the most extensively grown variety in the State.

144672. Palestine × Dawn, M 5126 R4-1-1. Although somewhat short-strawed, this is a promising crossbred type that has given encouraging results and has shown definite ability to recover after grazing in early growth and to produce good yields for both hay and grain.

144673. Palestine × Dawn, W8103 P8-1-1-1-9-2. This is an attractive, early, midseason type with good-colored purple straw of medium height and commendable plump grain. It too, has produced encouraging yields.

144674. Palestine × Dawn, M5126 R46-2-1. A fairly late-maturing selection of this cross that has at times shown slight variation in maturity and height.

144675 to 144726.

From Iran. Seeds presented by Dr. Walter Koelz, Tehran. Received September 3, 1942.

144675. BETA VULGARIS L. Chenopodiaceae.

Common beet.

No. 8148. From Veramin, March 16, 1942.

144676 to 144678. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

144676. No. 8140. Garmak. From Brujird, Luristan, July 15, 1942. Fruit flattened, 7 by 4 inches, heavily netted, weakly ribbed, orange yellow, ribbed greenish; flesh white, 1½ inches thick, of good quality for an early melon.

144677. No. 8143. Kharbuza. From Brujird, Luristan, July 17, 1942. Fruit elongate, 7 by 5 inches, yellow heavily netted; flesh salmon, 1½ inches thick, crisp, good enough for an early melon, ripening with late apricots.

144678. No. 8144. From Brujird, Luristan, July 18, 1942. Fruit elongate, 7 by 6 inches, pale yellow, heavily netted, unribbed; flesh white, 1¾ inches thick, crisp, slightly sweet. An early melon that, when it is the size of a walnut, is buried under dry earth and matures underground.

144675 to 144726—Continued.

144679 and 144680. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

144679. No. 8146. *Goji faranji*. From Brujird, Luristan, July 19, 1942. Fruit flattened, one contour round, $2\frac{1}{2}$ inches thick, tomato-red; flavor good.

144680. No. 8150. *Goji faranji*. From Brujird, Luristan, July 20, 1942. Fruit pyriform, 2 inches thick, red to cerise, fleshy; used for roasting with meat.

144681 to 144721. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

From Brujird, Luristan. *Zardalu* is the vernacular name for apricot in Iran.

144681. No. 8097. June 1, 1942. Fruit pale yellow, red-cheeked, $1\frac{1}{2}$ to $1\frac{1}{4}$ inches, very fragrant; delicious flavor, no fiber; edible kernel. A first-class apricot, and one of the earliest by 10 to 14 days.

144682. No. 8098. June 4, 1942. Fruit elongate, 2 inches high; yellow; flesh pale yellow, even gold when fully ripe; no fiber; early; flavor fair.

144683. No. 8099. June 4, 1942. Bazaar mixture of fruits, apparently brought in from distant villages; picked green. All white-fleshed types.

144684. No. 8102. June 12, 1942. Fruit amygdaloid, $1\frac{1}{4}$ inches thick, rich yellow, red cheeked; flesh pale gold, no fiber; flavor good; kernel sweet; early.

144685. No. 8103. June 13, 1942. Fruit amygdaloid, 2 inches long, pale yellow, red-cheeked; flesh pale yellow, fiberless, semi-clinging; flavor fair.

144686. No. 8104. June 15, 1942. Fruit subglobose, 2 inches long, pale yellow; flesh white, clingstone; flavor fair.

144687. No. 8105. June 15, 1942. Fruit 2 inches long; yellow; flesh yellow, no fiber; quality good.

144688. No. 8106. June 17, 1942. Fruit 2 inches long, amygdaloid, pale yellow, more or less red-cheeked; flesh white, fiberless; flavor sweet and fine.

144689. No. 8107. June 19, 1942. Fruit subglobose, $1\frac{1}{2}$ inches long, yellow, red-cheeked; flesh fiberless; flavor tending to be mealy, sweet.

144690. No. 8108. June 19, 1942. Fruit amygdaloid, 2 inches long, pale yellow, red-cheeked; flesh fiberless, white; flavor weak but unusually sweet.

144691. No. 8109. June 20, 1942. A mixture of fruit from the bazaar; flesh mostly white; midseason.

144692. No. 8110. June 21, 1942. Fruit subglobose, $1\frac{1}{2}$ inches long, gold; flesh good, fiberless; quality good.

144693. No. 8111. June 22, 1942. Fruit amygdaloid, $1\frac{1}{4}$ inches long, pale yellow; flesh pale yellow, fiberless; flavor good.

144694. No. 8112. June 23, 1942. Fruit compressed amygdaloid, $2\frac{1}{4}$ inches long, gold; flesh pale yellow, fiberless; quality good.

144695. No. 8113. June 23, 1942. Fruit subglobose, 2 inches long, pale yellow; flesh white, sweet; fiberless; a good fruit.

144696. No. 8114. June 24, 1942. Fruit amygdaloid, somewhat compressed, gold; flesh pale gold, fiberless; flavor good.

144697. No. 8115. June 24, 1942. Fruit subglobose, $1\frac{1}{4}$ inches long, hazel-nut-shaped, green yellow; flesh green yellow, fiberless; flavor faintly suggesting bitter almond.

144698. No. 8116. June 24, 1942. Fruit globose, $1\frac{1}{4}$ inches long, pale yellow, somewhat checked; flesh pale yellow, fiberless; flavor good.

144675 to 144726—Continued.

144699. No. 8118. June 25, 1942. Fruit subglobose, $1\frac{1}{4}$ inches long, gold, handsomely red-cheeked; flesh gold, fiberless; flavor fair.
144700. No. 8119. June 25, 1942. Fruit subglobose, $1\frac{1}{4}$ inches long, yellow, heavily purple-red-cheeked; flesh fiberless, white; flavor good.
144701. No. 8120. June 25, 1942. Fruit subglobose, 2 inches long, pale yellow, red-cheeked; flesh fiberless, white; flavor fair.
144702. No. 8121. June 26, 1942. Fruit $1\frac{1}{4}$ inches long, yellow; flesh fiberless, pale yellow; quality good.
144703. No. 8122. June 26, 1942. Fruit amygdaloid, compressed, gold, mottled red, $2\frac{1}{2}$ inches long; flesh white, fiberless; quality fair.
144704. No. 8123. June 27, 1942. Fruit subglobose, $1\frac{1}{4}$ inches long, pale yellow, heavily red-cheeked; flesh white, fiberless; quality fair.
144705. No. 8124. June 28, 1942. Fruit amygdaloid, $2\frac{1}{4}$ inches long, gold, heavily mottled red; flesh pale gold, fiberless; quality good; striking.
144706. No. 8125. June 28, 1942. Fruit subglobose, 2 inches long, pale yellow; flesh white, fiberless; quality poor.
144707. No. 8127. June 28, 1942. Fruit globose, $1\frac{1}{4}$ inches long, gold, red-cheeked; flesh gold, fiberless; quality fair.
144708. No. 8128. June 28, 1942. Fruit subglobose, $1\frac{1}{4}$ inches long, yellow, red-cheeked; flesh yellow, fiberless; quality good.
144709. No. 8129. June 29, 1942. Fruits globose, $1\frac{1}{2}$ inches long, gold, more or less tinged red; flesh firm, sometimes with fiber; flavor good.
144710. No. 8131. July 6, 1942. Fruit compressed globose, 2 inches long, yellow, very freestone; flesh yellow, sweet; late season.
144711. No. 8132. July 7, 1942. Fruit compressed amygdaloid, 2 inches long, yellow, more than half-covered with rich red; flesh yellow, fiberless, completely freestone; flavor good; very handsome.
144712. No. 8133. July 7, 1942. Fruit subglobose, 2 inches long, yellow, handsomely tinged red; flesh yellow, freestone, sweet.
144713. No. 8134. July 8, 1942. Fruit subglobose, $2\frac{1}{4}$ inches long, yellow, freestone; flesh pale yellow; quality good.
144714. No. 8135. July 8, 1942. Fruit globose, $1\frac{1}{2}$ inches long, yellow, more or less tinged pink; flesh solid, pale yellow, exceptionally sweet.
144715. No. 8137. July 12, 1942. Fruit globose, 2 inches long, yellow, more or less tinged pink on the cheek; flesh yellow, fiberless, unusually sweet.
144716. No. 8138. July 15, 1942. Fruit amygdaloid, $1\frac{1}{2}$ inches long, gold half-covered with rich red; flesh yellow, fiberless; quality good. Fruit fragrant, splendidly colored.
144717. No. 8139. July 15, 1942. Fruit globose, $1\frac{1}{2}$ inches long, slightly flattened, yellow, more or less tinged red; flesh yellow, fiberless, very freestone; quality good; late.
144718. No. 8141. July 16, 1942. Fruit amygdaloid, $1\frac{1}{2}$ inches long, yellow, lightly and extensively red-cheeked; flesh white, fiberless, rather dry but sweet; breeding characteristics: good color, late ripening.
144719. No. 8142. July 16, 1942. Fruit subglobose, somewhat compressed, $2\frac{1}{4}$ inches long, pale yellow tinted more or less salmon; flesh fiberless, yellow, sweet; an excellent late sort.
144720. No. 8145. July 19, 1942. Fruit sharply almond-shaped, 2 to $2\frac{1}{4}$ inches long, pale yellow slightly tinted red; flesh pale yellow, sweet, kernel sweet; rare shape but a good late sort; pits tend to split.
144721. No. 8149. July 20, 1942. Fruit subglobose, $1\frac{1}{4}$ inches long, half gold and half green; flesh yellow, fiberless, sweet flavor; rich.

144675 to 144726—Continued.**144722 to 144726.**

From Brujird, Luristan.

144722. PRUNUS DOMESTICA L. Amygdalaceae. Common plum.

No. 8101. *Alu.* July 11, 1942. Fruit globose, deeply slit, 2 inches long, green with a more or less red cheek; flesh yellow green, sweet flavor; good.

144723. PRUNUS sp.

No. 8136. July 12, 1942. Fruit globose, 1½ inches long, yellow, heavily clouded red; flavor sweet, good.

144724. PRUNUS sp.

No. 8100. June 8, 1942. Fruit globose, 1¼ inches long, red purple; flavor good; one of the earliest.

144725. PRUNUS sp.

No. 8117. June 24, 1942. Fruit subglobose, red purple, 1 inch long; tree wild, bushy, growing along a watercourse 15 feet deep.

144726. RUBUS sp. Rosaceae.

No. 8130. *Tamishk.* Plant semiprostrate, spreading rapidly from root, growing in forests and along watercourses; flowers white; fruit subglobose, 1 inch long, black with bloom, juicy flavor; good.

144727. HIBISCUS CANNABINUS L. Malvaceae. Ambari hemp.

From Brazil. Seeds presented by Erwin P. Keeler, American Embassy, Rio de Janeiro. Received September 11, 1942.

For previous introduction see 134301.

144728. STEVIA REBAUDIANA Bertoni. Asteraceae. Caá-heê.

From Argentina. Seeds presented by Andres Haddad, Santa Ana, Misiones. Received September 10, 1942.

The leaves contain a sweet glucoside, used locally on a small scale as a sugar substitute for diabetics.

For previous introduction see 121427.

144729 to 144740. MANIHOT ESCULENTA Crantz. (*M. utilissima* Pohl). Euphorbiaceae. Cassava.

From Brazil. Cuttings presented by Dr. F. Fabeliano da Costa Filho, Instituto Agronomico, Campinas. Received September 16, 1942.

144729. No. 78. *Areal.*144730. No. 407. *Branca.*144731. No. 59. *Branca de Santa Catarina.*144732. No. 103. *Brava de Itu.*144733. No. 118. *Cambai.*144734. No. 192. *Itu.*144735. No. 80. *Pitanga.*144736. No. 199. *Raiz Comprida.*144737. No. 85. *Rio Dourado.*144738. No. 371. *Tatu.*144739. No. 1. *Vassourinha.*144740. No. 10. *Vassourinha Dois.*

For previous introduction see 108223.

144741 to 144929.

From Peru. Seeds collected by Dr. T. H. Goodspeed, Andes Expedition of the University of California. Received June 24, 1942.

144741. ABUTILON REFLEXUM Sweet. Malvaceae,

No. 39.2122. From the Department of Lima; altitude 1,800 m.

144742. ACAENA OVALIFOLIA Ruiz and Pav. Rosaceae.

No. 39.1604. From the Department of Cajamarca; altitude 3,000 m.

144743. ACALYPHA SCANDENS Benth. Euphorbiaceae.

No. 39.1180. From the Department of Huanuco.

144744. ACALYPHA INFESTA Poepp. & Endl.

No. 39.2049. From the Department of Apurimac; altitude 2,200 m.

144745. ACANTHOSPERMUM HISPIDUM DC. Asteraceae.

No. 39.2092. From the Department of Apurimac; altitude 2,200 m.

144746. AESCHYNOMENE SCOPARIA H. B. K. Fabaceae.

No. 39.2457. From the Department of Lima; altitude 1,400 m.

144747 and 144748. ALONSOA ACUTIFOLIA Ruiz & Pav. Scrophulariaceae.

144747. No. 39.1197. From the Department of Arequipa; altitude 500 m.

144748. No. 39.1965. From the Department of Apurimac; altitude 2,800 m.

For previous introduction see 144159.

144749 to 144751. ANEMONE HELLEBORIFOLIA DC. Ranunculaceae.

144749. No. 39.1968. From the Department of Cuzco; altitude 2,500 to 3,300 m.

144750. No. 39.2006. From the Department of Apurimac; altitude 3,200 m.

144751. No. 39.2007. From the Department of Huancavelica; altitude 3,450 m.

144752. ALONSOA ACUTIFOLIA Ruiz & Pav. Scrophulariaceae.

No. 39.2068. From the Department of Huancavelica; altitude 3,700 m.

144753. ANOPA CRISTATA (L.) Schlecht. Malvaceae.

No. 39.1586. From the Department of Cajamarca; altitude 2,800 m.

144754. ANODISCUS PERUVIANUS Benth. Gesneriaceae.

No. 39.1436. From the Department of Huanuco; altitude 700 m.

144755 and 144756. BACCHARIS FLORIBUNDA H. B. K. Asteraceae.

144755. No. 39.1096. From the Department of Lima; altitude 2,500 m.

144756. No. 39.1564. From the Department of Cajamarca; altitude 3,000 m.

144757. BACCHARIS GLUTINOSA Pers.

No. 39.2438. From the Department of Huancavelica; altitude 2,000 m.

For previous introduction see 144161.

144758. BACCHARIS STERNBERGIANA Steud.

No. 39.1101. From the Department of Ancash; altitude 5 m.

144759 and 144760. BACCHARIS TEINDALENSIS H. B. K.

144759. No. 39.1566. From the Province of Hualgayoc; altitude 2,900 m.

144760. No. 39.1780. From the Department of Cajamarca; altitude 2,600 m. Tree or shrub about 4 m. high; purple bracts.

144741 to 144929—Continued.

144761. *BARNADESIA DOMBEYANA* Less. Asteraceae.

No. 39.1449. From the Department of La Libertad; altitude 2,900 m.

144762. *BARTSIA CINEREA* Diels. Scrophulariaceae.

No. 39.1994. From the Department of Apurimac; altitude 2,700 m.

144763. *BARTSIA DENSIFLORA* Benth.

No. 39.1983. From the Department of Junin; altitude 3,700 m.

144764. *BARTSIA THIANTHA* Diels.

No. 39.1993. From the Department of Apurimac; altitude 2,700 m.

144765 and 144766. *BEGONIA CLARKEI* Hook. f. Begoniaceae.

144765. No. 39.1036. From the Department of Puno; altitude 3,200 to 3,800 m.

For previous introduction see 142996.

144766. No. 39.1971. From the Department of Huancavelica; altitude 3,500 m.

144767. *BEGONIA GERANIIFOLIA* Hook.

No. 39.1223. From the Department of Lima; altitude 200 to 600 m.

144768. *BEGONIA PLEIOPETALA* A. DC.

No. 39.1973. From the Department of Huancavelica; altitude 3,500 m.

For previous introduction see 142998.

144769. *BIDENS PILOSA* L. Asteraceae.

No. 39.1084. From the Department of Lima. Reported to be a splendid forage plant in the Belgian Congo.

For previous introduction see 49959.

144770. *BIDENS RIPARIA* H. B. K.

No. 39.2145. From the Department of Piura.

144771. *BOMAREA OVATA* (Cav.) Mirb. Amaryllidaceae.

No. 39.1169. From the Department of Huanuco; altitude 2,850 m.

For previous introduction see 90087.

144772 to 144774. *BOUSSINGAUTIA DIFFUSA* (Moq.) Volkens. Basellaceae.

From the Department of Lima.

144772. No. 39.2303. Altitude 2,800 m.

144773. No. 39.2304. Altitude 3,250 m.

144774. No. 39.2458. Altitude 1,400 m.

144775. *BRACHYOTUM LUTESCENS* (Ruiz & Pav.) Triana. Melastomaceae.

No. 39.1060. From the Department of La Libertad; altitude 2,800 m.

144776 and 144777. *BROWALLIA AMERICANA* L. Solanaceae.

A slender annual about 2 feet high, with smooth ovate leaves up to 2 inches long and solitary flowers less than 1 inch long. Native to tropical America.

144776. No. 39.1149. From the Department of Huanuco; altitude 1,100 m.

144777. No. 39.1164. From the Department of Huanuco; altitude 1,300 m.

For previous introduction see 107822.

144741 to 144929—Continued.

144778. BUDDLEIA AMERICANA L. Loganiaceae.

No. 39.1975. From the Department of Apurimac; altitude 2,500 m. A shrub 4 to 5 feet high with small, fragrant, white or yellow flowers.

For previous introduction see 111439.

144779. BYTTNERIA CORDATA Lam. Sterculiaceae.

No. 39.1570. From the Department of Cajamarca; altitude 2,500 m.

144780. BYTTNERIA HIRSUTA Ruiz & Pav.

No. 39.2460. From the Department of Lima; altitude 1,400 m.

144781. CAESALPINIA CORYMBOSA Benth. Caesalpiniaceae.

No. 39.2105. From Sayon, inland from Huacho.

144782. CALCEOULARIA AQUATICA A. Br. & Bouché. Scrophulariaceae.

No. 39.2130. From the Department of Lima; altitude 2,000 m.

144783. CALCEOULARIA CHELIDONIOIDES H. B. K.

No. 39.1051. From the Department of Huanuco; altitude 2,800 m. An annual about 18 inches high, with pinnate leaves and attractive yellow flowers about $\frac{1}{2}$ inch long. Native to Ecuador.

For previous introduction see 122072.

144784. CALCEOULARIA SALICIFOLIA Ruiz & Pav.

No. 39.1556. From the Department of La Libertad; altitude 2,700 m.

144785. CALCEOULARIA sp.

No. 39.1978. From the Department of Cuzco. Altitude 3,650 m.

144786. CALCEOULARIA sp.

No. 39.1979. From the Department of Cuzco. Altitude 3,860 m.

144787. CALONYCTION ACULEATUM (L.) House (*Ipomoea bona-nox* L.).
Convolvulaceae. **Moonflower.**

No. 39.1134. From the Department of Lima. A woody climber with large white flowers that are said to open in the evening.

For previous introduction see 114870.

144788 and 144789. CARDIOSPERMUM CORINDUM L. Sapindaceae.

144788. No. 39.2076. From the Department of Apurimac; altitude 2,300 m.

144789. No. 39.2095. From the Department of Apurimac; altitude 2,700 m.

144790 and 144791. CASTILLEJA FISSIFOLIA var. PUMILA (Benth.) Wedd.
Scrophulariaceae.

144790. No. 39.1558. From the Department of La Libertad; altitude 3,500 m.

144791. No. 39.1982. From the Department of Apurimac; altitude 2,800 m.

144792. CASTILLEJA FISSIFOLIA L. f.

No. 39.2028. From the Department of Huancavelica; altitude 3,700 m.

144793. CASTILLEJA FISSIFOLIA var. PUMILA (Benth.) Wedd.

No. 39.2437. From the Department of Cuzco; altitude 3,800 to 4,500 m.

For previous introduction see 144791.

144794. CENTROPOGON CUSPIDATUS DC. Campanulaceae.

No. 39.1184. From the Department of Huanuco.

144741 to 144929—Continued.**144795. CENTROPOGON LONGIFOLIUS** Wimm.

No. 39.2058. From the Department of Cuzco; altitude 2,500 m.

144796. CENTROPOGON CORNUTUS (L.) Druce.No. 39.1181. From the Department of Huanuco; altitude 700 m. Received as *Centropogon surinamensis*, now referred to the above species.**144797. CEPHALOCEREUS MELANOSTELE** Vaup. Cactaceae.

No. 39.2118. From the Department of Lima; altitude 1,200 to 1,600 m.

144798. CERASTIUM sp. Silenaceae.

No. 39.1985. From the Department of Junin; altitude 4,200 m.

144799. CEREUS MACROSTIBAS (Schum.) Berger. Cactaceae.

No. 39.2117. From the Department of Lima; altitude 1,200 to 1,600 m.

144800. CHAPITALIA NUTANS (L.) Polak. Asteraceae.

No. 39.1158. From the Department of Huanuco; altitude 1,800 m.

144801. CHUQUIRAGA FEROX (Wedd.) Britton. Asteraceae.

No. 39.2440. From the Department of Junin; altitude 3,054 m.

144802. CISSAMPELOS TROPAEOLIFOLIA DC. Menispermaceae.

No. 39.1159. From the Department of Huanuco; altitude 1,300 m.

144803 to 144805. CLEOME CHILENSIS DC. Capparidaceae.

144803. No. 39.1192. From the Department of Arequipa; altitude 100 m.

144804. No. 39.1981. From the Department of Huancavelica; altitude 2,500 m.

144805. No. 39.2116. From the Department of Cuzco; altitude 2,860 m.

For previous introduction see 144442.

144806 and 144807. CLEOME HERRERAE Macbr.

144806. No. 39.2031. From the Department of Apurimac; altitude 3,000 m.

144807. No. 39.2037. From the Department of Cuzco; altitude 2,300 to 2,600 m.

144808. COCCOCYPSELUM CONDALIA Pers. Rubiaceae.

No. 39.1148. From the Department of Huanuco.

144809. COMMELINA sp. Commelinaceae.

No. 39.2182. From the Department of Lima; altitude about 1,800 m., flowers deep navy blue.

144810. CORCHORUS PILOLOBUS Link. Tiliaceae.

No. 39.2464. From the Department of Lima; altitude about 100 m.

144811. CORDIA POLYANTHA Benth. Boraginaceae.

No. 39.2126. From the Department of Piura; altitude 150 m.

144812. CREMOLOBUS PINNATIFIDUS Hook. Brassicaceae.

No. 39.2306. From the Department of Lima; altitude 2,800 m.

144813. CRISTARIA FORMOSULA I. M. Johnst. Malvaceae.

No. 39.1204. From the Department of Arequipa.

144814. CROTON ALNIFOLIUS Lam. Euphorbiaceae.

No. 39.1126. From the Department of Lima; altitude 500 to 600 m.

144741 to 144929—Continued.

144815. CROTON sp.

No. 39.2391. From the Department of Arequipa; sea level, flowers yellow.

144816 and 144817. CYCLANTHERA MATHEWSII Cogn. Cucurbitaceae.

144816. No. 39.1087. From the Department of Lima; altitude 80 m.

144817. No. 39.1107. From the Department of Ancash.

144818. DALEA AYAVACENSIS H. B. K. Fabaceae.

No. 39.1446. From the Department of La Libertad; altitude 2,800 m.

144819. DESMODIUM UNCIINATUM (Jacq.) DC. (*Meibomia uncinata* (Jacq.) Kuntze). Fabaceae.

No. 39.2459. From the Department of Lima; altitude 1,400 m.

For previous introduction see 132799.

144820. DODONAEA VISCOSA (L.) Jacq. Sapindaceae. Hopbush.

No. 39.1583. From the Department of Cajamarca; altitude 2,800 m. A shrub from 6 to 10 feet high, found on arid, rocky slopes. The large flower clusters are like those of hydrangea.

For previous introduction see 103515.

144821. DUNALIA BRACHYSTEMON A. Br. & Bouché. Solanaceae.

No. 39.1142. From the Department of Huanuco; altitude 1,900 m.

144822. DURANTA DOMBEYANA Moldenke. Verbenaceae.

No. 39.2207. From the Department of Cuzco; altitude 1,040 m.

144823. DURANTA sp.

No. 39.2098. From the Department of Apurimac; altitude 2,200 m.

144824. DATURA SANGUINEA Ruiz & Pav. Solanaceae. Red floripondio.

No. 39.1058. From the Department of La Libertad; altitude 2,800 m. A tree 20 feet high with masses of pendent flowers several inches long.

For previous introduction see 142558.

144825. DURANTA TRIACANTHA Juss. Verbenaceae.

Skyflower.

No. 39.1198. From the Department of Arequipa; altitude 800 m. A shrub 15 feet high with stiff, sharp thorns, and pale-blue flowers, borne in clusters 3 or 4 inches long, and followed by golden berries half an inch in diameter.

For previous introduction see 52610.

144826. EMBOTHRIUM GRANDIFLORUM Lam. Proteaceae.

No. 39.1059. From the Department of La Libertad; altitude 2,800 m.

144827. ENCELIA CANESCENS Cav. Asteraceae.

No. 39.1082. From the Department of Lima.

144828. EPILOBIUM DENTICULATUM Ruiz & Pav. Onagraceae.

No. 39.2208. From the Department of Lima; altitude 3,200 m.

144829. ERIGERON sp. Asteraceae.

No. 39.2305. From the Department of Lima; altitude 2,800 m., flowers musty white.

144830. EUPATORIUM GLOMERATUM DC. Asteraceae.

No. 39.2211. From the Department of Huancavelica; altitude 2,400 m.

144831. EUPHORBIA NUTANS Lag. Euphorbiaceae.

No. 39.1083. From the Department of Lima; flowers white.

144741 to 144929—Continued.

144832. EXCREMIS COARCTATA (Ruiz & Pav.) Baker. Liliaceae.

No. 39.2495. From the Department of Cuzco; altitude 2,600 m.

144833. FUCHSIA MACROPHYLLA I. M. Johnst. Onagraceae.

No. 39.1599. From the Department of Cajamarca; altitude 3,000 m., shrub to 4 m. high; flowers dark coral red throughout.

144834. FUMARIA CAPREOLATA L. Papaveraceae.

No. 39.1121. From the Department of Lima; altitude 300 m.; an annual herb; flowers greenish white with purple tips.

144835. GAIADENDRON PUNCTATUM (Ruiz & Pav.) Don. Loranthaceae.

No. 39.1577. From the Department of Cajamarca; altitude 2,600 m.; tree up to 5 m. high with smooth gray bark and flexible twigs; fruit an orange-colored drupe.

144836. GALVESIA BALLII Munz. Scrophulariaceae.

No. 39.1075. From the Department of Piura; altitude 2 m., shrub up to 1 m. high; flowers red, with a white throat marked with red lines on the inside.

144837. GALVESIA FRUTICOSA Gmel.

No. 39.2132. From the Department of Lima; altitude 1,200 m., shrub usually 0.8 to 1 m. high; flowers dark red.

144838. GENTIANA STRICTICAULIS Gilg. Gentianaceae.

No. 39.1554. From the Department of La Libertad; altitude 2,700 m.; an herb used as medicine.

144839. EURYTHALIA UMBELLATA G. Don. Gentianaceae.

No. 40.1041. From the Department of Cuzco; altitude 3,400 to 3,700 m.; prostrate herb 0.5 to 1.2 m. high; flowers blue. Received as *Gentiana umbellata*, apparently an invalid name.

144840. GERANIUM LIMAE Knuth. Geraniaceae.

No. 39.2401. From the Department of Lima; altitude 2,800 m.

144841. MICONIA sp. Melastomaceae.

No. 39.1152. From the Department of Huanuco; altitude 1,100 m., flowers yellow.

144842. HOFFMANSEGGIA VIScosa Hook. & Arn. Fabaceae.

No. 39.2189. From the Department of Piura; altitude 80 m.; annual herb 5 cm. high; flowers orange-yellow, faintly tipped and spotted with red.

144843. HYPOCHAERIS ELATA (Wedd.) Griseb. Cichoriaceae.

No. 39.2221. From the Department of Lima; altitude 2,800 m.; annual herb 0.3 to 0.4 m. high.

144844. HYPOCHAERIS sp.

No. 39.1062. From the Department of La Libertad; altitude 2,800 m., herb up to 0.3 m. high; flowers yellow.

144845. HYPOXIS DECUMBENS (L.) Amaryllidaceae.

No. 39.1967. From the Department of Apurimac; altitude 2,800 m.; perennial herb 0.05 m. high; flowers yellow with green midrib.

144846. HYPTIS MUTABILIS (L. Rich.) Briq. Menthaeae.

No. 39.2084. From the Department of Cuzco; altitude 900 m.; flowers lavender, somewhat fragrant.

144741 to 144929—Continued.

144847. *HYPATIS SIDIFOLIA* (L'Hérit.) Briq. *Hyptidaceae*.

No. 39.1118. From the Department of Ancash; perennial herb up to 0.2 m. high; flowers light pink.

144848. *LOCHROMA GRANDIFLORA* Benth. *Solanaceae*.

No. 39.1562. From the Department of Cajamarca; altitude about 3,000 m.; tree or shrub; flowers dark purple, almost black.

144849. *IPOMOEA ASARIFOLIA* (Desr.) Roem. & Schult. *Convolvulaceae*.

No. 39.1079. From the Department of Piura; a shrub or perennial herb, prostrate; flowers white, fleshy.

144850 and 144851. *JUSSIAEA PERUVIANA* L. *Onagraceae*.

144850. No. 39.2448. From the Department of Lima; a perennial herb up to 2 m. high; flowers pale yellow.

144851. No. 39.1589. From the Department of Cajamarca; altitude 2,800 m.; a perennial herb up to 0.8 m. high; flowers yellow.

For previous introduction see 144249.

144852. *JUSSIAEA SUFFRUTICOSA* L.

No. 39.2240. From the Department of Lima. Introduced under the varietal name "ligustiifolia," for which a place of publication has not been found.

144853. *LANTANA LIMENSIS* Hayek. *Verbenaceae*.

No. 39.2234. From the Department of Lima; altitude 2,900 m.

144854. *LANTANA* sp.

No. 39.2142. From the Department of Piura; altitude 200 m.; an annual herb up to 1 m. high; flowers white.

144855. *LEPECHINIA FLORIBUNDA* (Benth.) Epl. *Menthaceae*.

No. 39.190. From the Department of Huancavelica; altitude 2,500 m.

144856. *LEPECHINIA LAMIIFOLIA* (Benth.) Epl.

No. 39.1992. From the Department of Apurimac; altitude 2,800 m.

144857. *LEUCOCARPUS PERFOLIATUS* (H. B. K.) Benth. *Scrophulariaceae*.

No. 39.1166. From the Department of Huánuco; altitude 2,800 m.

144858. *LIPPIA* sp. *Verbenaceae*.

No. 39.1984. From the Department of Lima; altitude about 600 m.

144859. *LITHOSPERUM MACBRIDEI* I. M. Johnst. *Boraginaceae*.

No. 39.2022. From the Department of Huancavelica; altitude 3,500 m.

144860. *LUPINUS* sp. *Fabaceae*.

No. 39.2149. From the Department of Lima; altitude 3,200 m.; flowers indigo blue.

144861. *MALVASTRUM PERUVIANUM* A. Gray. *Malvaceae*.

No. 39.2408. From the Department of Lima; altitude 2,800 m.

144862. *MELASTOMA* sp. *Melastomaceae*.

No. 39.1574. From the Department of Cajamarca; altitude 2,500 m.; flowers pale yellow.

144863. *MIRABILIS* sp. *Nyctaginaceae*.

No. 39.2455. From the Department of Lima; altitude 1,200 m.

144864 and 144865. *MONNINA PTEROCARPA* Ruiz & Pav. *Polygalaceae*.

- 144741 to 144929—Continued.** (Continued from page 117)
144864. No. 39.2445. From the Department of Lima; altitude 1,100 to 1,400 m.
144865. No. 39.2050. From the Department of Huancavelica; altitude 2,400 m.
144866. *MONOCHAETUM LINEATUM* (D. Don) Naud. Melastomaceae.
- No. 39.2451. From the Department of Piura; altitude 1,250 m.
144867. *MUTISIA PEDUNCULARIS* Cav. Asteraceae.
- No. 39.1030. From the Department of Lima; altitude 2,500 m.
- 144868 to 144870. *NICANDRA PHYSALODES* (L.) Gaertn. Solanaceae.
144868. No. 39.1135. From the Department of Huanuco.
144869. No. 39.2001. From the Department of Apurimac; altitude 2,100 m.
144870. No. 39.2146. From the Department of Piura; altitude 20 m.
- For previous introduction see 127834.
144871. *NOLANA LYCIOIDES* I. M. Johnst. Nolanaeae.
- No. 39.2410. From the Department of Arequipa.
- 144872 and 144873. *NOLANA SPATHULATA* Ruiz & Pav.
144872. No. 39.1332. From the Department of Arequipa; altitude 3 m.; plants growing in sand near shore, forming great domes up to 1½ feet high and 5 feet across, covered with pale to deep-lavender morning-glories 2 inches across.
144873. No. 39.2357. From the Department of Arequipa.
- Nos. 144874 to 144876 are from the Department of Lima.
144874. *OENOTHERA DRUMMONDII* Hook. Onagraceae.
- No. 39.2465. Altitude 100 m.
- 144875 and 144876. *OENOTHERA LACINIATA* var. *LIMENSIS* Munz & Johnst.
144875. No. 39.1124. Altitude 500 m.
144876. No. 39.1132. Altitude 300 m.
144877. *OLYRA LATIFOLIA* L. Poaceae.
- No. 39.1974. From the Department of Cuzco; altitude 900 m. A handsome, broadleaved, bamboo-like perennial grass, sometimes 5 feet high, with panicles 4 to 6 inches long.
- For previous introduction see 70913.
144878. *OXALIS LOTOIDES* H. B. K. Oxalidaceae.
- No. 39.2162. From the Department of Lima; altitude 1,200 m.
144879. *OXALIS MEGALORRHIZA* Jacq.
- No. 39.1105. From the Department of Ancash.
- For previous introduction see 144567.
144880. *OXALIS MELILOTOIDES* Zucc.
- No. 39.2003. From the Department of Apurimac; altitude 2,200 m.
144881. *PASSIFLORA MOLLISSIMA* (H. B. K.) Bailey. Passifloraceae.
- Softleaf passionflower.
- No. 39.1057. From the Department of La Libertad; altitude 2,700 m.
144882. *PAULLINIA ALATA* (Ruiz & Pav.) Don. Sapindaceae.
- No. 39.2091. From the Department of Cuzco; altitude 900 m.

144741 to 144929—Continued.

144883. *PECTIS* sp. Asteraceae. No. 39.2125. From the Department of Piura; altitude 150 m.
144884. *PERYMENTIUM FEATHERSTONEI* Blake. Asteraceae. No. 39.2197. From the Department of Apurimac; altitude 2,200 m.
144885. *PHYLLANTHUS BRASILIENSIS* (Aubl.) Muell. Arg. Euphorbiaceae. No. 39.2032. From the Department of Cuzco; altitude 900 m. A shrub 5 to 8 feet high with alternate, roundish, pale-green leaves and inconspicuous flowers. Native to Brazil.
- For previous introduction see 107883.
144886. *PHYSALIS ANGULATA* L. Solanaceae. Groundcherry. No. 39.2147. From the Department of Piura; altitude 20 m. A much-branched herb with very small flowers and a fruiting calyx which is conical ovoid with a sunken base, 10-angled, loosely inflated, at length well filled by the greenish-yellow berry.
- For previous introduction see 91535.
144887. *PILEA SERPYLLACEA* (H. B. K.) Liebm. Urticaceae. No. 39.1987. From the Department of Huancavelica; altitude 2,400 m.
144888. *PIQUERIA PERUVIANA* (Gmel.) Robins. Asteraceae. No. 39.1098. From the Department of Lima; altitude 2,500 m.
144889. *PLUCHEA* sp. Asteraceae. No. 39.2128. From the Department of Lambayeque; altitude 50 m.
144890. *POLYLEPIS INCANA* H. B. K. Rosaceae. No. 39.1450. From the Department of La Libertad; altitude 2,900 m.
144891. *POLYMNIA GLABRATA* DC. Asteraceae. No. 39.2042. From the Department of Apurimac; altitude 3,000 m.
- 144892 and 144893. *POROPHYLLUM RUDERALE* (Jacq.) Cass. No. 39.2131. From the Department of Lima; altitude 2,010 m.
144893. No. 39.2436. From the Department of Cuzco; altitude 2,750 m.
- For previous introduction see 144201.
144894. *PSORALEA LASIOSTACHYS* Vog. Fabaceae. No. 39.2060. From the Department of Junin; altitude 3,054 m.
144895. *PSYCHOTRIA* sp. Rubiaceae. No. 39.1575. From the Department of Cajamarca; altitude 2,500 m.
144896. *RANUNCULUS PRAEMORSUS* DC. Ranunculaceae. No. 39.2008. From the Department of Apurimac; altitude 3,200 m.
- 144897 and 144898. *RECHSTEINERIA PERUVIANA* Fritsch. Gesneriaceae. From the Department of Apurimac.
144897. No. 39.2055. Altitude 2,800 m.
144898. No. 39.2156. Altitude 2,000 to 2,500 m.
144899. *RHYNCHOSPORA* sp. Cyperaceae. No. 39.2449. From the Department of Lima; grows in great masses below sea level in moist muck.

144741 to 144929—Continued.

144900. SALVIA BIFLORA Ruiz & Pav. *Menthaceae.*

No. 39.2099. Found along the highway east of the Sierras from Lima; a good pink salvia.

144901. SALVIA FLORIDA Benth.

No. 39.1603. From the Department of Cajamarca.

144902 and 144903. SALVIA OPPOSITIFLORA Ruiz & Pav.

An erect shrubby perennial about 2 feet high with ovate, obtuse, crenate leaves and terminal spikes of many scarlet flowers.

144902. No. 39.1565. From the Province of Hualgayoc; altitude 2,900 m.

144903. No. 39.1988. From the Department of Huancavelica.

For previous introduction see 127838.

144904. SALVIA RHOMBIFOLIA Ruiz & Pav.

No. 39.1109. From the Department of Ancash; altitude 450 m.

144905. SALVIA TUBIFLORA J. E. Sm.

No. 39.1201. From the Department of Arequipa; altitude 300 m.

144906. SARACHA sp. *Solanaceae.*

No. 39.1112. From the Department of Ancash; flowers white with lavender centers.

144907. SAXIFRAGA MAGELLANICA var. *PERUVIANA* (Sternb.). *Macbr.*
Saxifragaceae.

No. 39.2026. From the Department of Huancavelica; altitude 3,900 m.

144908. SCHINUS POLYGAMUS (Cav.) I. M. Johnst. (*S. dependens* Ortega). *Anacardiaceae.*

No. 39.2114. From the Department of Cuzco; altitude 2,800 to 3,000 m.

For previous introduction see 144589.

144909. SCLERIA SYLVESTRIS Poepp. & Kurth. *Cyperaceae.*

No. 39.1188. From the Department of Huanuco; altitude 700 m.

144910. SIDA ANGUSTIFOLIA Lam. *Malvaceae.*

No. 39.2226. From the Department of Apurimac; altitude 2,200 m.

144911. SIDA LOMAGEITON Ulbr.

No. 39.2454. From the Department of Lima; altitude 1,200 m.

144912. SILENE ANDICOLA Gill. *Silenaceae.*

No. 39.1980. From the Department of Huancavelica; altitude 3,400 m.

144913. SONCHUS OLERACEUS L. *Cichoriaceae.*

No. 39.1071. From the Department of Lima.

144914. STACHYS PERUVIANA Benth. *Menthaceae.*

No. 39.2019. From the Department of Apurimac; altitude 3,200 m.

144915. STACHYS PUSILLA (Wedd.) Briq.

No. 39.2020. From the Department of Cuzco; altitude 3,600 to 3,900 m.

144916. STELLARIA CUSPIDATA Schlecht. *Silenaceae.*

No. 39.1092. From the Department of Lima; altitude 50 m.

144917. CHELONANTHUS ALATUS (Aubl.) Standl. *Gentianaceae.*

No. 39.1151. From the Department of Huanuco; altitude 1,100 m. Re-

144741 to 144929—Continued.

ceived as *Symbolanthus alatus*, a name for which a place of publication has not been found.

144918. *SYNCRETOCARPUS SERICEUS* (DC.) Blake. Asteraceae.

No. 39.2120. From the Department of Lima; altitude 1,100 to 1,400 m.

144919 to 144921. *TALINUM TRIANGULARE* (Jacq.) Willd. Portulacaceae.

From the Department of Lima. An erect, branching, herbaceous plant, about 3 feet high, with pink flowers produced in great profusion. The fleshy, tender leaves are boiled like spinach and make an excellent serving with meat in the West Indies and other islands where it is native.

144919. No. 39.2446. Altitude 1,100 to 1,500 m.

144920. No. 39.2447. Altitude 1,800 m.

144921. No. 39.2463.

For previous introduction see 68364.

144922. *CAESALPINIA SPINOSA* (Molina) Kuntze. Caesalpiniaceae.

No. 39.1128. From the Department of Lima; altitude 600 m.

For previous introduction see 144616.

144923. *TESSARIA INTEGRIFOLIA* Ruiz & Pav. Asteraceae.

No. 39.1102. From the Department of Ancash; altitude 5 m.

144924. *TRIBULUS* sp. Zygophyllaceae.

No. 39.2142. From the Department of Piura; altitude 20 m.; flowers soft lemon yellow and pale green.

144925. *TRIUMFETTA SEMIRILOBA* Jacq. Tiliaceae.

No. 39.2462. From the Department of Lima; altitude 1,400 m. A bushy, herbaceous, hairy plant, with bright-yellow flowers produced in long leafy racemes.

For previous introduction see 62919.

144926. *TRIXIS RADIALIS* (L.) Ktze. Asteraceae.

No. 39.2194. From the Department of Lima; altitude about 500 m.

144927. *VALERIANA INTERRUPTA* Ruiz & Pav. Valerianaceae.

No. 39.1088. From the Department of Lima; altitude 80 m.

144928. *VERBESINA AURICULIGERA* Blake. Asteraceae.

No. 39.2196. From the Department of Huancavelica; altitude 2,400 m.

144929. *WEDELIA* sp. Asteraceae.

No. 39.2016. From the Department of Apurimac; altitude 2,000 m.; flowers orange and black.

144930 to 144934.

From Guadeloupe. Seeds presented by M. A. Buffon, Chief, Agricultural Service, Basse-Terre. Received September 12, 1942.

144930 and 144931. *LUFFA ACUTANGULA* (L.) Roxb. Cucurbitaceae. Singkwa towelgourd.

144930. No. 1. *Pikinga*.

144931. No. 3. *Torchon*.

For previous introduction see 141704.

144932 to 144934. *LUFFA AEGYPTIACA* Mill.

Suakwa towelgourd.

144932. No. 2. *Pikinga*.

144930 to 144934—Continued.

JANUARY 1 TO DECEMBER 31, 1942

144933. No. 4. *Torchon*.144934. No. 5. *Torchon*.144935 to 144937. *BROMUS INERMIS* Leyss. Poaceae. Bromegrass.

From Canada. Seeds received from the Central Experimental Farm, Ottawa.

Received September 14, 1945.

144935. *Commercial*.144936. *Parkland*.144937. *Superior*.

144938 to 144971.

From South America. Seeds collected by Dr. T. H. Goodspeed, Andes Expedition of the University of California. Received June 26, 1942.

Nos. 144938 to 144940 were collected in Chile.

144938 and 144939. *BERBERIS ACTINACANTHA* Mart. Berberidaceae.

144938. No. 36.1566. From the Province of Valparaiso. Altitude 300 m. The shrub was found on the edge of woods and in open pasture land. It is from 1 m. to 2 m. high, with spherical blue-black berries.

144939. No. 36.1651. From the Province of Valparaiso. Altitude 300 m. This shrub was also found on the edge of woods and in open pasture land. It is from 1 to 2 m. high, with spherical blue-black berries.

For previous introduction see 81144.

144940. *BERBERIS* sp.

No. 40.1100. From Cunco. Introduced under the name "aravena," for which a place of publication has not been found.

144941 and 144942. *BERBERIS BUXIFOLIA* Lam. Magellan barberry.

144941. No. 39.1878. From Sarmiento, Province of Córdoba, Argentina, altitude 150 m. A shrub or bush 1 to 3 m. high found growing in dry sand and gravel. It produces edible, well-flavored, blue berries.

144942. No. 40.1017. From Chile. A thorny shrub 1.5 m. high which blooms very early in August.

For previous introduction see 103480.

144943. *BERBERIS COMMUTATA* Eichl.

No. 39.2071. From the Department of Apurimac, Peru; altitude 2,800 m.

144944 to 144946. *BERBERIS DARWINII* Hook. Darwin barberry.

144944. No. 36.1582. From the Province of Llanquihue, Chile; altitude 100 m.

144945. No. 40.1001. From San José de la Mariquina, Chile.

144946. No. 36.1321. From the Province of Llanquihue, Chile, near Ensenada; altitude 100 m. A shrub 1.5 to 2 m. high, found in lava fields and openings in evergreen forests, with blue-black fruits. The common name for this fruit in Chile is *michai*.

For previous introduction see 76214.

144947 to 144956.

Collected in Peru.

144947. *BERBERIS JELSKIANA* Schneid.

No. 39.2093. From the Department of Apurimac; altitude 3,100 m.

144938 to 144971—Continued.**144948. BERBERIS sp.**

No. 36.1869. From near Acanacu Pass, Department of Cuzco; altitude 3,400 to 3,600 m. A shrub 1 to 2 m. high found in open brushland. An excellent species with large yellow flowers, black fruits.

144949. BERBERIS sp.

No. 39.2489. Peru (?).

144950. CACTUS TOWNSENDII Britt. & Rose. Cactaceae.

No. 39.2121. From the Department of Lima; altitude 1,200 to 1,500 m.

144951 and 144952. CAPSICUM FRUTESCENS L. Solanaceae. Redpepper.

144951. No. 39.1176. From the Department of Huanuco; altitude 700 m.

144952. No. 39.1177. From the Department of Huanuco; altitude 700 m.

144953. DAUCUS MONTANUS Schult. Apiaceae.

No. 39.2065. From the Department of Apurimac; altitude 3,200 m.

144954. LATHYRUS MAGELLANICUS Lam. Fabaceae. Lord Anson pea.

No. 39.2150. From the Department of Lima; altitude 3,200 m.

For previous introduction see 81919.

144955. LYCOPERSICON PERUVIANUM (L.) Mill. Solanaceae.

No. 39.1045.

For previous introduction see 128656.

144956. SOLANUM ALBIDUM Dun. Solanaceae.

No. 39.1601. From Arenales, Department of Cajamarca; altitude 3,000 m.

144957. SOLANUM DIPHYLLUM L.

No. 39.1034. From Manzanillo, Mexico; altitude 10 m.

144958 to 144962.

Collected in Peru.

144958. SOLANUM NIGRUM L.

Black nightshade.

No. 39.2015. From the Department of Apurimac; altitude 2,200 m. A low herb with white flowers and orange fruits.

For previous introduction see 135854.

144959. SOLANUM PINNATIFIDUM Ruiz & Pav.

No. 39.1205. From the Department of Arequipa; altitude 3 m.

144960. SOLANUM RADICANS L. f.

No. 39.1208. From the Department of Arequipa; altitude 300 m.

For previous introduction see 126459.

144961. SOLANUM RIPARIUM Pers.

No. 39.1162. From the Department of Huanuco; altitude 630 m.

144962. SOLANUM TUBERIFERUM Dunal.

No. 39.1439. From the Department of Lima.

144963. SOLANUM sp.

No. 39.2237. From Cochabamba, Bolivia.

144964 to 144969.

Collected in Peru.

144938 to 144971—Continued.

- 144964. SOLANUM sp.** No. 39.1578. From the Department of Cajamarca; altitude 2,400 m., flowers yellow.
- 144965. SOLANUM sp.** No. 39.1155. From the Department of Huamayo; altitude 600 m., flowers lemon yellow.
- 144966. SOLANUM sp.** No. 39.1441. From the Department of La Libertad; altitude 5 m.
- 144967. SOLANUM sp.** No. 39.1602. From the Department of Cajamarca; altitude 3,100 m.; flowers pale gold.
- 144968. SOLANUM sp.** No. 39.2014. From the Department of Cuzco; altitude 900 m.; flowers purple.
- 144969. Vicia sp. Fabaceae.** No. 39.1080. From the Department of La Libertad; altitude 5 m.; flowers lavender.
- 144970. Vicia sp.** No. 39.1858. From the Province of Valparaiso, Chile.
- 144971. VIGNA LUTEOLA Benth. Fabaceae.** No. 39.2108. From the Department of Lima, Peru.
- 144972. SCORZONERA TAU-SAGHYZ Lipschitz & Bosse. Cichoriaceae.** From the Union of Soviet Socialist Republics. Received September 21, 1942.
- 144973 to 144988.** From South America. Seeds collected by Dr. T. H. Goodspeed, Andes Expedition of the University of California. Received September 21, 1942.
- 144973. ASTRAGALUS sp. Fabaceae.** No. 39.1823. February 2, 1939; from the Rio Sobrante; altitude 2,490 m.; eaten by animals.
- 144974. CALCEOLARIA sp. Scrophulariaceae.** No. 39.1573. From the Department of Cajamarca, Peru; altitude 2,300 m.; flowers yellow.
- 144975. CALCEOLARIA sp.** No. 39.1552. February 12, 1939; from the Rio Sobrante, Argentina.
- 144976. CELTIS TALA Gillies. Ulmaceae. Nettle tree.** No. 39.1356. From the Sierra Chica, Province of Córdoba, Chile. A tree with a short, stout, branched trunk, and smooth, yellowish-white wood which is used for posts and firewood.
- For previous introduction see 48663.
- 144977. CENTROPOGON CUSPIDATUS DC. Campanulaceae.** No. 39.1161. From Elqui, Peru.
- 144978. CLEMATIS HILARI Spreng. Ranunculaceae.** No. 39.1361. From General Paz, near Córdoba, in the Sierra Chica, Argentina. A tropical climbing shrub with ternate or nearly ternate leaves

144973 to 144988—Continued.

2 to 4 inches wide and fragrant blue-white flowers. It is native to south-eastern Brazil.

For previous introduction see 130547.

144979. DENMOZA RHODACANTHA (Salm-Dyck) Britt. & Rose. Cactaceae.

No. 39.1638. From Mendoza, Argentina. Taken from plants in "Cactus Park."

144980. EUPHORBIA sp. Euphorbiaceae.

No. 39.2041. From the Department of Huancavelica, Peru; altitude 2,500 m.; flowers blood red.

144981. IPOMOEA sp. Convolvulaceae.

No. 39.2201. From the Department of Lima, Peru; altitude 5,500 m.; flowers reddish purple.

144982. KRAMERIA TRIANDRA Ruiz & Pav. Krameriaceae.

No. 39.1329. From Chala, Peru; altitude 200 m.; a prostrate shrub found growing on dry sandy beaches; usually most of the plant is buried in sand; flowers bright red.

144983. LUFFA ASTORI Svenson. Cucurbitaceae.

No. 39.2138. From the Department of Piura, Peru; altitude 35 m.

144984. LUPINUS sp. Fabaceae.

No. 39.2265. From La Ensenada, Chile (?).

144985. MITRARIA COCCINEA Cav. Gesneriaceae.

No. 39.2266. From Rio Tepú, slopes of Volcan Calbuco, Chile; altitude 50 m.

144986. NOTHOSCORDUM sp. Liliaceae.

No. 39.1396. From Santa Catalina, Peru (?).

144987. SALVIA sp. Menthaceae.

No. 39.1165. From the Department of Huanuco, Peru; altitude 2,800 m.; flowers blue.

144988. SOPHORA sp. Fabaceae.

No. 39.2281. Pelú. From La Ensenada, Chile (?).

144989 and 144990. CYAMOPSIS TETRAGONOLOBA (L.) Taub. (*C. psoraloides* DC.). Fabaceae. **Guar.**

From India. Seeds presented by the Director of Development, Orissa, Cuttack, through L. L. Schnare, American consul general, Calcutta. Received September 21, 1942.

144989. Sample No. 1. Locally grown seed.

144990. Sample No. 2. Government farm-grown seed.

For previous introduction see 144328.

144991 and 144992. HESPEROMELES HETEROPHYLLA (Ruiz & Pav.) Hook. Malaceae.

From Colombia. Seeds presented by Dr. A. Dugand, Institute of Nature Sciences, Bogotá. Received September 12, 1942.

From Antioquia; altitude 7,000 feet.

144993. CINCHONA OFFICINALIS L. Rubiaceae.

From Guatemala. Seeds presented by Dr. David Fairchild. Coconut Grove, Fla. Received September 21, 1942.

Seeds obtained by Dr. Fairchild from Dr. Wilson Popenoe.

144994. INDIGOFERA HIRSUTA L. Fabaceae. Indigo.

From Australia. Seeds presented by C. T. White, Government Botanist, Department of Agriculture and Stock, Brisbane, Queensland. Received September 21, 1942.

An annual or biennial prostrate legume 2 to 3 feet long, with 7 to 9 oblong leaflets and dense racemes of violet-purple flowers. It is used as a cover crop.

For previous introduction see 132802.

144995. STEVIA REBAUDIANA Bertoni. Asteraceae.

From Argentina. Seeds presented by Dr. Moises S. Bertoni, Santa Ana, Misiones. Received September 21, 1942.

For previous introduction and description see 144728.

144996. FRAXINUS UHDEI (Wenzig) Lingelsh. Oleaceae. Ash.

From Mexico. Seeds presented by Dr. David Fairchild, Coconut Grove, Fla. Received September 22, 1942.

Originally collected by Dr. Wilson Popenoe in Oaxaca. A tree that becomes 45 feet or more in height, with dark, furrowed bark. The greenish flowers are in large panicles sometimes 8 inches long.

144997. CORCHORUS OLITORIUS L. Tiliaceae. Jute.

From Argentina. Seeds purchased from the Pan-American Trade Service, Buenos Aires. Received September 28, 1942.

144998. HELICONIA sp. Musaceae.

From Puerto Rico. Plants presented by Claud L. Horn, Experimental Station, Mayagüez. Received September 28, 1942.

144999. RICINUS COMMUNIS L. Euphorbiaceae. Castor-bean.

From Argentina. Seeds presented by the Ministerio de Agricultura de la Nación, Buenos Aires. Received September 30, 1942.

Ricino blanco.

For previous introduction see 143539.

145000 to 145002. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Chile. Tubers presented by Luis A. Belmar P., Director del Departamento Sanidad Vegetal, Santiago. Received October 5, 1942.

145000. *Corahila* (Red).

145001. *Corahila* (Rose-colored).

145002. *Corahila* (Large No. 140).

145003 to 145029.

From Brazil. Seeds collected by E. C. Higbee, Office of Foreign Agricultural Relations, United States Department of Agriculture. Received October 6, 1942.

145003. *ABELMOSCHUS ESCULENTUS* (L.) Moench. Malvaceae. Okra.

No. 9. From Belém. August 10, 1942.

145004. *ACHRAS ZAPOTA* L. Sapotaceae. Sapodilla.

No. 12. From Bragança, August 12, 1942.

145003 to 145029—Continued.

145005. *ALYSICARPUS* sp. Fabaceae. No. 11. *Marmalada*. From Bragança, August 12, 1942. Obtained from wild plants along railroad tracks.
- 145006 and 145007. *CAPSICUM FRUTESCENS* L. Solanaceae. No. 14. Redpepper. No. 22. From a fruit market in Alenquer, August 22, 1942.
145008. *CASSIA TORA* L. Caesalpiniaceae. No. 6. *Mata Pasta*. From Bragança, August 12, 1942. A vigorous succulent legume that is said to do well on poor soils but which has a tendency to become an undesirable weed in cultivated fields and high-grade pastures. It is evidently relished by hogs.
- For previous introduction see 114895.
145009. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon. No. 21. From a fruit market in Belém, September 10, 1942.
145010. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon. No. 26. From a fruit market in Belém, September 10, 1942.
- 145011 and 145012. *CUCURBITA MOSCHATA* Duchesne. Cucurbitaceae. Cushaw.
145011. No. 3. From Bragança, August 12, 1942.
145012. No. 4. From Belém, August 10, 1942.
145013. *DOLICHOS LABLAB* L. Fabaceae. Hyacinth-bean. No. 10. From Belém, August 10, 1942.
145014. *HYPARRHENIA RUFU* (Nees) Stapf. Poaceae. Grass. No. 5. *Jaragua*. From Bragança, August 12, 1942.
- For previous introduction see 139629.
145015. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato. No. 20. From Belém, September 10, 1942.
- 145016 and 145017. *ORYZA SATIVA* L. Poaceae. Rice.
145016. No. 25. From market, Alenquer, August 22, 1942. Probably locally grown, upland rice.
145017. No. 1. Obtained from the Upland Rice Station, August 12, 1942. Said to average 300 kilos per hectare on unfertilized sandy loam soils.
145018. *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae. Parsley. No. 8. *Salsa*. From Belém. Seed purchased in seed store, said to have come from Portugal.
145019. *PHASEOLUS LUNATUS* L. Fabaceae. Lima bean. No. 2. From a garden in Belém, August 10, 1942.
145020. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean. No. 18. From market, Alenquer, August 22, 1942.
145021. *PUERARIA PHASEOLOIDES* (Roxb.) Benth. Fabaceae. No. 15. From Belterra, August 24, 1942; used as a cover crop.
- For previous introduction see 143802.
145022. *SCHIZOLEBIUM AMAZONICUM* Ducke. Caesalpiniaceae. No. 27. From garden of Museu Goeldi, Belém, September 11, 1942. An

145003 to 145029—Continued.

unusually rapid-growing tree said to produce wood excellent for paper and matchsticks. A 6-year old tree has a trunk about 2 feet in diameter.

145023. TALINUM sp. Portulacaceae.

No. 7. *Cariru*. From garden, Belém, August 7, 1942. A very popular and common plant used in the same manner as spinach by the people in this region.

145024. VIGNA SESQUIPEDALIS (L.) Fruwirth. Fabaceae. Asparagus bean.

No. 17. *Feijão verde*. From a local garden, Belém, August 10, 1942.

145025 to 145027. VIGNA SINENSIS (Torner) Savi. Fabaceae. Cowpea.

From market, Alenquer.

145025. No. 16. August 22, 1942.

145026. No. 24. August 22, 1942.

145027. No. 13. August 23, 1942.

145028. VITIS sp. Vitaceae.

No. 23. From Alenquer, August 22, 1942.

145029. ZEA MAYS L. Poaceae.

Corn.

No. 19. From market, Alenquer, August 22, 1942.

145030 and 145031. PERSEA AMERICANA Mill. Lauraceae. Avocado.

From Mexico. Seeds presented by Lic. Eduardo Preciata, Mexico, D. F. Received October 5, 1942.

145030. Large-fruited variety.**145031.** Small-fruited variety.

For previous introduction see 132737.

145032. JATROPHA sp. Euphorbiaceae.

From Mexico. Seeds presented by Floyd D. Ransom, Special Representative, United States Department of Agriculture, Mexico, D. F. Received October 8, 1942.

*Chilte.***145033. DESMODIUM NICARAGUENSE Benth. & Oerst. (*Meibomia rensoni* Painter).** Fabaceae.

From El Salvador. Seeds presented by Leopoldo Barrientes, Chief of the Agricultural and Industrial Department, La Ceiba. Received October 5, 1942.

145034 to 145038. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.

Sweetpotato.

From Brazil. Tubers presented by the Secretary of Agriculture, Campinas, São Paulo. Received October 13, 1942.

145034. V-16 Das Almas.**145037. V-29.****145035. V-48 (or 84) Rosa.****145038. V-10 Napoleão.****145036. V-39 Roxa.****145039. CHENOPODIUM PALLIDICAULE Aellen.** Chenopodiaceae.

From Bolivia. Seeds presented by Dr. Martin Cárdenas, Rector, Universidad Autónoma "Simón Bolívar," Cochabamba, Cochabamba. Received October 13, 1942.

Kañahua.

For previous introduction see 145055.

145040. HEVEA BRASILIENSIS (H. B. K.) Muell. Arg. Euphorbiaceae. Para rubbertree.

From Puerto Rico. Seeds presented by K. C. Bartlett, Mayagüez. Received October 15, 1942.

For previous introduction see 144067.

145041. SCORZONERA TORTUOSISSIMA Boiss. Cichoriaceae.

From Iran. Seeds presented by the Iranian Ministry of Agriculture, Tehran. Received October 8, 1942.

145042 to 145052. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

From Hawaii. Seeds presented by A. J. Mangelsdorf, Experiment Station, Hawaiian Sugar Planters Association, Honolulu. Received October 16, 1942.

145042. No. 1942. *Bilb.* (Mauritius.)

145043. No. 1943. *Bunch.* (Mauritius.)

145044. No. 597. *Doi.* (Kailua.)

145045. No. 1941. *Digan Lupog.* (Mauritius.)

145046. No. 1138. *Indian Coromandel.* (Southern Rhodesia.)

145047. No. 1527. *Masunbika No. 1.* (Uganda.)

145048. No. 1526. *Serere.* (Uganda.)

145049. No. 885. *Shanghai.* (Kalama.)

145050. No. 2089. *Schwarz No. 21.* (Java.)

145051. No. 1939. *Tirik.* (Mauritius.)

145052. No. 2090. *White Brazil.* (Brazil.)

145053 and 145054.

From Guatemala. Seeds presented by Hector Manuel Sierra, through the Bureau of Agricultural Economics, United States Department of Agriculture. Received October 19, 1942.

145053. LUPINUS ANGUSTIFOLIA L. Fabaceae.

Lupine.

Flowers yellow; seeds ovoid-globose, faintly speckled.

For previous introduction see 137170.

145054. LUPINUS LUTEUS L.

Flowers blue; seeds speckled.

For previous introduction see 137172.

145055 to 145063.

From Bolivia. Seeds presented by Martín Cárdenas, Rector, Universidad Autónoma "Simon Bolívar," Cochabamba. Received October 22, 1942.

145055. CHENOPODIUM PALLIDICAULE Aellen. Chenopoliaceae.

Kanahua. From the Titicaca Lake Region, La Paz.

For previous introduction see 145039.

145056 to 145063. CHENOPODIUM QUINOA Willd.

Quinoa.

145056. *Quinua Amarilla Salcedo.* (Puno, Peru.)

145057. *Quinua Amarilla Achacachi.* (La Paz, Bolivia.)

145058. *Quinua Blanca Salcedo.* (Puno, Peru.)

145059. *Quinua Blanca Achacachi.* (La Paz, Bolivia.)

145055 to 145063—Continued.

145060. *Quinua "Cuchi huiva"* (pig's fat) *Cabo de Chancho, Guaqui.*
 (La Paz, Bolivia.)

145061. *Quinua "Huatajata"* *Chua.* (La Paz, Bolivia.)

145062. *Quinua "Jaru"* *Guaqui.* (La Paz, Bolivia.)

145063. *Quinua "Pallapi"* or "*Real,*" *Tihuanacea.* (La Paz, Bolivia.)

For previous introduction see 126404.

145064. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From Michigan. Tree obtained from the Greening Nursery Co., Monroe.
 Received October 31, 1942.

Early Halehaven. (U. S. Plant Patent 325.)

145065 to 145075.

From Brazil. Seeds presented by the Instituto Agronómico, Campinas, São Paulo. Received October 26, 1942.

145065. COFFEA ARABICA L. Rubiaceae. Arabian coffee.

Variety *Bourbon.*

145066. COFFEA ARABICA L.

Variety *Bourbon.* Introduced as "var. *bourbon forma xanthocarpa,*" for which a place of publication has not been found.

145067. COFFEA ARABICA var. GOIABA Taschdjian.

145068. COFFEA ARABICA var. LAURINA Cramer.

145069. COFFEA ARABICA var. MARAGOGIPE Froehner.

145070. COFFEA ARABICA var. MARAGOGIPE Froehner.

Introduced as "forma *xanthocarpa,*" a name that is invalid because already used in this species.

145071. COFFEA ARABICA var. MOKKA Cramer.

145072. COFFEA ARABICA var. POLYSPERMA Cramer.

145073. COFFEA ARABICA var. PURPURASCENS Cramer.

145074. COFFEA ARABICA var. TYPICA Cramer.

145075. COFFEA ARABICA var. TYPICA Cramer.

Introduced as "forma *xanthocarpa,*" a name that is invalid because already used in this species.

For previous introduction see 118448.

145076. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From Michigan. Tree ordered from Stahelin's Nursery, Bridgman. Received November 2, 1942.

Michigold.

145077. MYRISTICA FRAGRANS Houtt. Myristicaceae.

Common nutmeg.

From the British West Indies. Seeds presented by the Director of Agriculture, Trinidad. Received October 30, 1942.

For previous introduction see 97774.

145078. VACCINIUM sp. Vacciniaceae.

From Colombia. Seeds presented by Paul Epple, Bogotá. Received November 11, 1942.

Colombian wild blueberry.

145079 to 145092. GLYCINE MAX (L.) Merr. Fabaceae. Soybean.

From Southern Rhodesia. Seed presented by the Department of Agriculture, Salisbury. Received November 12, 1942.

- | | |
|-------------------------|--------------------------------|
| 145079. Hernon No. 6 | 145086. Hernon No. 268. |
| 145080. Hernon No. 12. | 145087. Jubiltan No. 65. |
| 145081. Hernon No. 18. | 145088. Jubiltan No. 67. |
| 145082. Hernon No. 29. | 145089. Jubiltan No. 77. |
| 145083. Hernon No. 36. | 145090. Jubiltan No. 109. |
| 145084. Hernon No. 55. | 145091. Potchefstroom No. 51. |
| 145085. Hernon No. 107. | 145092. Potchefstroom No. 184. |

For previous introduction see 142491.

145093. SACCHARUM. Poaceae.**Sugarcane.**

From British Guiana. Cuttings presented by C. Holman B. Williams, Sugar Agronomist and Plant Breeder, Botanic Gardens, (Sugar Experiment Station), Georgetown. Received November 16, 1942.

D. 166/34.

145094. LOTUS ULIGINOSUS Schkuhr. Fabaceae.

From Canada. Seeds presented by G. C. Pearson, Port Kells, British Columbia. Received October 30, 1942.

This plant is a very heavy seeder in its first year. It was outstanding among 400 plants seeded during the spring of 1942.

For previous introduction see 135131.

145095. JACARANDA FILICIFOLIA (Anders.) Don. Bignoniaceae.

From the Canal Zone. Seeds presented by Walter R. Lindsay, Director, Canal Zone Experiment Station, Summit. Received November 4, 1942.

A cultivated shade tree with fernlike leaves and showy panicles of large blue-purple flowers. Native to Panama.

For previous introduction see 109937.

145096. CRYPTOSTEGIA GRANDIFLORA R. Br. Asclepiadaceae.**Palay rubbervine.**

From Mexico. Seeds presented by Jack Tharp, Alamos, Sonora. Received November 9, 1942.

For previous introduction see 77392.

145097 to 145117.

From Australia. Seeds presented by Dr. A. McTaggart, Division of Plant Industry, Canberra City. Received October 28, 1942.

145097. ARACHIS NAMBYQUARAE Hoehne. Fabaceae.**Peanut.**

No. 6929. From the Division of Agrostology, Ministry of Agriculture, Deodore, Brazil, 1937.

For previous introduction see 111964.

145098 and 145099. CAJANUS CAJAN (L.) Druce. Fabaceae.**Pigeonpea.**

145098. No. 6053. From the University of Hawaii, 1935.

145099. No. 7779. From Rabat, Morocco, 1939.

145100. CANAVALIA ENSIFORMIS (L.) DC. Fabaceae.**Jackbean.**

No. 2317. From the Department of Agriculture, Samaru, Zaria, Nigeria, 1931.

145097 to 145117—Continued.

145101. CANAVALIA GLADIATA (Jacq.) DC. Fabaceae. **Swordbean.**

No. 2270. From the Department of Agriculture, Reduit, Mauritius, 1931.

For previous introduction see 143872.

145102. CROTALARIA RETUSA L. Fabaceae.

No. 1257. From Roland McKee, United States Department of Agriculture, Washington, D. C., 1930.

For previous introduction see 117935.

145103. CYAMOPSIS TETRAGONOLOBA (L.) Taub. (*C. psoraloides* DC.). Fabaceae. **Guar.**

No. 2780. From Dacca, Bengal, India, 1932.

For previous introduction see 144328.

145104. DESMODIUM BARBATUM (L.) Benth. (*Meibomia barbata* (L.) Kuntze). Fabaceae.

No. 5814. From Deodoro, Brazil, 1934.

For previous introduction see 117948.

145105. GLYCINE JAVANICA L. Fabaceae.

No. 6943. From Tanganyika Territory, 1937.

For previous introduction see 142976.

145106. INDIGOFERA HIRSUTA L. Fabaceae. **Indigo.**

No. 1669. From the General Experiment Station, Buitenzorg, Java, 1930.

For previous introduction see 144994.

145107. PHASEOLUS ACUTIFOLIUS var. *LATIFOLIUS* G. F. Freeman. Fabaceae. **Tepary bean.**

No. 5973. From Moscow, Union of Soviet Socialist Republics, 1941-42 (produced at the Plant Introduction Garden, Lawes, southern Queensland.)

For previous introduction see 57734.

145108. PHASEOLUS CALCARATUS Roxb. **Rice bean.**

No. 2778. Agartala Kalai. From Dacca, Bengal, India, 1932.

145109. PHASEOLUS METCALFEI Woot. & Standl. **Metcalfe bean.**

No. 5553. From the Boyce Thompson Southwest Arboretum, Superior, Ariz., 1933.

145110. PHASEOLUS MUNGO L. **Urd.**

No. 3712. From the Institute of Plant Industry, Indore, Indore, Central India, 1932.

For previous introduction see 126230.

145111. PHASEOLUS TRINERVIOUS Heyne.

No. 5783. From the Department of Agriculture, Trinidad, British West Indies, 1934. An annual or biennial vine densely clothed with deflexed, tawny hairs. The trifoliate leaves have broadly ovate leaflets, 3 to 5 inches long, and the red flowers are in clusters of 3 to 6 on flexuous peduncles.

For previous introduction see 91962.

145112. SESBANIA PAULENSIS Barb.-Rodr. Fabaceae.

No. 1679. From the Botanic Gardens, Buitenzorg, Java, 1930. A leguminous shrub about 10 feet high, with narrow, angular branches, finely pinnate leaves, and handsome yellow flowers in few-flowered racemes.

For previous introduction see 73261.

145097 to 145117—Continued.

145113. *STIZOLOBIUM ATERRIMUM* Piper & Tracy. Fabaceae. Velvetbean.

No. 2271. From the Department of Agriculture, Reduit, Mauritius, 1931.

For previous introduction see 132790.

145114. *STIZOLOBIUM DEERINGIANUM* Bort. Deering velvetbean.

No. 6928. From C. Starke & Company Ltd., Mowbray, Capetown, South Africa, 1937.

For previous introduction see 139642.

145115. *STIZOLOBIUM* sp.

No. 2041. From the Department of Agriculture, Southern Rhodesia, 1931.

145116. *STYLOSANTHES GUIANENSIS* (Aubl.) Swartz. Fabaceae.

No. 6058. From the University of Hawaii, 1935. (Seed grown at Tropical Research Station, South Johnstone, northern Queensland, 1940-41.) A branching herbaceous perennial about 3 feet high with rusty hirsute stems, trifoliolate leaves of lanceolate, sharp-pointed leaflets, and globose heads of small, fragrant, yellow flowers subtended by leafy bracts.

For previous introduction see 132811.

145117. *VOANDZEIA SUBTERRANEA* (L.) Thouars. Fabaceae.

No. W.3766. From the Waite Agricultural Research Institute, Adelaide, Australia, 1941-42. (Originally from the Union of South Africa.)

For previous introduction see 143971.

145118 to 145122. *GOSSYPIUM*. Malvaceae. Cotton.

From Brazil. Seeds presented by F. Febeliano da Costa Filho, Director de Divisão de Experimentação e Pesquisas, Campinas. Received November 19, 1942.

145118. Delfos. 37.230.

145121. Delfos. 38.1408.

145119. Delfos. 38.1404.

145122. Delfos. 38.1435.

145120. Delfos. 38.1407.

145123 to 145199.

From Australia. Seeds presented by Dr. A. McTaggart, Division of Plant Industry, Canberra City. Received October 29, 1942.

145123. *MEDICAGO* sp. Fabaceae.

No. 3511. From the Botanic Gardens, Cambridge, England, 1932.

145124 to 145126. *MEDICAGO FALCATA* L. Yellow-flowered alfalfa.

145124. No. 5618. From the Department of New Cultures and Introduction, Institute of Plant Industry, Leningrad, Union of Soviet Socialist Republics, 1933.

145125. No. 7702. From the Division of Forage Plants, Ottawa, Canada, 1939.

145126. No. 7909. From Alma-Ata, Institute of Plant Industry, Leningrad, the Union of Soviet Socialist Republics, 1940.

145127 to 145136. *MEDICAGO SATIVA* L.

Alfalfa.

145127 and 145128. From the University of Saskatchewan, 1929.

145127. No. 1092.

145128. No. 1093.

145129 to 145131. From Macdonald College, Quebec, Canada, 1929.

145129. No. 1282.

145123 to 145199—Continued.

145130. No. 1283.
145131. No. 1284.
145132. No. 6964. From the Institut für Pflanzenzüchtung, Landsberg (Wartha) Germany, 1937.
145133. No. 7233. From Sutton & Sons, Reading, England, 1938.
145134 to 145136. From the Division of Forage Plants, Ottawa, Canada, 1939.
145134. No. 7590.
145135. No. 7591.
145136. No. 7699.
145137. *MELILOTUS ALBA* Desr. Fabaceae. White sweetclover.
No. 1783. Supplied by the Bureau of Introduction, Institute of Applied Botany and New Cultures, Leningrad, the Union of Soviet Socialist Republics, 1930.
145138. *MELILOTUS OFFICINALIS* (L.) Lam. Yellow sweetclover.
No. 5620. From the Department of New Cultures and Introduction, Institute of Plant Introduction, Leningrad, the Union of Soviet Socialist Republics, 1933.
145139. *TRIFOLIUM HYBRIDUM* L. Fabaceae. Alsike clover.
No. 2326. From Cambridge, England, originally from Sofia, Bulgaria.
For previous introduction see 126519.
145140 to 145165. *TRIFOLIUM PRATENSE* L. Fabaceae. Red clover.
145140. No. 2354. From the Botanic Gardens, Cambridge, England, 1931.
145141. No. 2843. From the Plant Research Station, Palmerston, New Zealand, 1932.
145142. No. 5621. From the Department of New Cultures and Introductions, Institute of Plant Industry, Leningrad, Union of Soviet Socialist Republics, 1933.
145143. No. 5622. From the Department of New Cultures and Introductions, Institute of Plant Industry, Leningrad, Union of Soviet Socialist Republics, 1933.
145144. No. 5719. From the Royal Danish Agricultural Society, Copenhagen, Denmark, 1934.
145145. No. 6608. From the Macdonald College, Quebec, Canada, 1937.
145146 and 145147. From the Plant Research Station, Palmerston, New Zealand, 1937.
145146. No. 6653.
145147. No. 6654.
145148. No. 6960. From Mühlhausen, Germany, 1937.
145149. No. 6961. From Weimar, Germany, 1937.
145150. No. 7035. From Aberystwyth, Wales, 1938.
145151. No. 7036. From Aberystwyth, Wales, 1938.
145152. No. 7037. From the Welsh Plant Breeding Station, Aberystwyth, Wales, 1938.
145153. No. 7043. From the Department of Plant Breeding, Institute of Agricultural Research, Bucharest, Rumania, 1938.

145123 to 145199—Continued.

145154 to 145160. From the Moravian Institute of Agricultural Research, Brno, Czechoslovakia, 1938.

145154. No. 7197.

145158. No. 7201.

145155. No. 7198.

145159. No. 7202.

145156. No. 7199.

145160. No. 7205.

145157. No. 7200.

145161 to 145165. From the Danish Station for Seed Control, Royal Agricultural Society of Denmark, 1938.

145161. No. 7225.

145162. No. 7226. A high-yielding strain of two-cut or broadleaf clover.

145163. No. 7227. A high-yielding strain of single-cut clover.

145164. No. 7228.

145165. No. 7229.

145166 to 145196. *TRIFOLIUM REPENS* L. Fabaceae. White clover.

145166. No. 3540. From Copenhagen, Denmark; originally from the Botanic Gardens, Cambridge, England, 1932.

145167 to 145168. From the Plant Research Station, Palmerston North, New Zealand, 1932.

145167. No. 2840. Type 1 — Ac766.

145168. No. 2841. Type 2 — Ac128.

145169. No. 3560. From the Botanic Gardens, Cambridge, England, 1932.

145170 to 145171. From the Plant Research Station, Palmerston North, New Zealand, 1932.

145170. No. 3675. Certified Mother Seed.

145171. No. 3676. Certified Permanent Pasture.

145172. No. 5721. From the Royal Danish Agricultural Society, Copenhagen, Denmark, 1934.

145173 to 145178. From the Plant Research Station, Palmerston North, New Zealand, 1937.

145173. No. 6647. Type 1 — Ac2243.

145174. No. 6648. Type 2 — Ac2160.

145175. No. 6649. Type 3 — Ac2243.

145176. No. 6650. Type 4 — Ac2304.

145177. No. 6651. Type 5 — Ac2215.

145178. No. 6652. Type 6 — Ac2399.

145179. No. 6851. Collected in Maison Carrée, Algeria, 1937.

145180. No. 6855. Collected at Lavandou, Var, France, 1937.

145181. No. 6856. Collected on the Island of Port Cros, Var, France, 1937.

145182. No. 6962. From the Anstalt für Pflanzenbau and Pflanzenzucht, University of Thuringia, Jena, Germany, 1937.

145183. No. 6965. From Lodi, Italy, supplied by the Institut für Pflanzenzüchtung, Landsberg (Wartha), Germany, 1937.

145184. No. 6966. From Silesia, Germany, supplied by the Institut für Pflanzenzüchtung, Landsberg (Wartha) Germany, 1937.

145185 and 145186. From a royal Hungarian estate, Rompolt, Hungary, 1937.

145123 to 145199—Continued.

145185. No. 6968. (Bakony.)

145186. No. 6969. (Hortobagy.)

145187. No. 7038. (S. 100, early.) From Aberystwyth, Wales, 1938.

145188. No. 7046. (Ac2419.) From the Plant Research Station, Palmerston North, New Zealand, 1938.

145189 and 145190. From the Plant Breeding Sub-Division, Moravian Institute of Agricultural Research, Brno, Czechoslovakia, 1938.

145189. No. 7303. (Tetc, Moravia.)

145190. No. 7204. (Topolcany, Slovakia.)

145191. No. 7230. *Morso*. From the Danish Station for Seed Control, 1938.145192. No. 7589. *Nappan*, wild white clover. From the Division of Forage Plants, Ottawa, Canada, 1939.

145193. Dingee. A commercial variety grown under irrigation in Victoria, Australia.

145194. No. 2243. From the Bureau of Introduction, Institute of Plant Industry, Leningrad, Soviet Union, 1931.

145195. No. 2244. From the Bureau of Introduction, Institute of Plant Industry, Leningrad, Soviet Union, 1931.

145196. No. 7984. *Purpurea*. From the Botanic Garden, Leyden, Netherlands, 1940.145197. **TRIFOLIUM TUMENS** Stev. Fabaceae.

Clover.

No. 2429. From the Botanic Gardens, Copenhagen, Denmark, 1931; native to Transcaucasia.

For previous introduction see 31054.

145198 and 145199. **VIGNA SINENSIS** (Torner) Savi. Fabaceae. Cowpea.145198. No. 5980. *Brabham*. From the Nicholson Seed Co., Dallas, Tex., 1935.

145199. No. 8085. (34c361.) From the Division of Plant Industry, Union Department of Agriculture, Pretoria, Union of South Africa.

145200 to 145528. MEDICAGO SATIVA L. Fabaceae. Alfalfa.

From Saudi Arabia. Seeds presented by James G. Hamilton, United States Agricultural Mission. Received November 23, 1942.

145200. From near Burcida, altitude 1,870 feet, July 15, 1942. A region of high temperatures, with a continuous growing season, where nearly all alfalfa is grown in date groves.

145201 to 145203.

Collected at Mecca.

145204 to 145528.

[No special data.]

145529. ARUNDINARIA AMABILIS McClure. Poaceae.

From Texas. Seeds presented by R. R. Eckhart, Dallas, and E. A. McIlhenny, Avery Island, La. Received December 1, 1942.

For previous introduction see 134091.

145530. GOSSYPIUM. Malvaceae. Cotton.
 From Brazil. Seeds presented by the Instituto Agronómico de Campinas, São Paulo. Received December 3, 1942.
Stoneville (resistant) 42/26.

145531. MAGNOLIA MOLLICOMATA W. W. Smith. Magnoliaceae.
 From North Wales. Seeds presented by Lord Aberconway, Bodnant, Tal-y-Cafn. Received November 25, 1942.

A deciduous tree 50 to 80 feet high in southwestern China, where it is native. The dull-green, broadly oval leaves are 6 to 10 inches long, and the rosy, cup-shaped flowers, 6 to 7 inches across, appear before the leaves. Closely related to *Magnolia campbellii*, this species flowers more freely and on younger trees.

145532 to 145534.

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley. Received November 11, 1942.

Numbers 145532 and 145533 were collected by Mrs. Quiller Gray at Daleside, Transvaal.

145532. DIGITARIA sp. Poaceae. Grass.

145533. THEMEDA TRIANDRA Forsk. Poaceae. Rooi grass.

For previous introduction see 75384.

145534. ZIZIPHUS MUCRONATA Willd. Rhamnaceae. Jujube.

A spiny tree, native to South Africa, about 25 feet high, with small, 3-nerved leaves, inconspicuous yellowish flowers, and red fruits about the size of cherries.

145535 to 145545. SACCHARUM. Poaceae. Sugarcane.

From the Canal Zone. Received December 3, 1942.

145535. Bamboo Morada, Imp. 768 × Hind's Special.

145536. Criola × P.O.J. 2878.

145537. Cristalina × Hind's Special.

145538. Cristalina × P.O.J. 2878.

145539. Cristalina × P.O.J. 2878.

145540. Gestreipt Preanger × Toledo.

145541. Green Ribbon × C. P. 1161.

145542. La. Purple × Hind's Special.

145543. P. O. J. 2725 × C.P. 27-108.

145544. Simpson × C.P. 1165.

145545. Yellow Bamboo × C. P. 1165.

145546 to 145553.

From Brazil. Seeds presented by the Instituto Agronómico de Campinas, São Paulo. Received November 19, 1942.

145546 to 145548. RICINUS COMMUNIS L. Euphorbiaceae. Castor-bean.

145546. No. 37.

145547. No. 38—A.N.A.

145548. No. 39.

145546 to 145553—Continued.

- 145549 to 145553. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**
 145549. No. 5—Pusa 90.
 145550. No. 6—Pusa 80-5.
 145551. No. 8—Pusa 12.
 145552. No. 9—Pusa 4.
 145553. No. 90—Pusa 111.

145554 and 145555. JUGLANS REGIA L. Juglandaceae. **Persian walnut.**

From California. Plants growing at the Plant Introduction Garden, Chico. Numbered December 7, 1942.

145554. Selection D-36-32.
 145555. Selection D-37-1.

145556. INDIGOFERA COLUTEA (Burm. f.) Merr. Fabaceae. **Indigo.**

From Tanganyika Territory. Seeds presented by P. G. Greenway, Systematic Botanist, East African Agricultural Research Station, Amani. Received November 25, 1942.

A herbaceous species 1 to 4 feet high, native to the East Indies. Received as *Indigofera viscosa*, now considered a synonym of *I. colutea*.

145557. AMYGDALUS PERSICA L. Amygdalaceae. **Peach.**

From California. Plants growing at the Plant Introduction Garden, Chico. Numbered December 8, 1942.

Selection (D-8-24) from P.I. 92046.

145558. SOLANUM TUBEROSUM L. Solanaceae. **Potato.**

From Bolivia. Tubers presented by the Universidad Autónoma de Cochabamba, Cochabamba. Received December 8, 1942.

145559. SOLANUM AGRARIUM Sendt. Solanaceae.

From Brazil. Seeds presented by W. R. Schreiber, Office of Foreign Agricultural Relations, Department of Agriculture, Washington, D. C. Received December 1, 1942.

Bobo. A yellow-fruited species from Santo Amaro district in the state of Bahia, October 1, 1942.

145560. HELICOSTYLIS OJOCHE Pittier. Moraceae.

From Costa Rica. Seeds presented by J. M. Orozco C., Jefe de la Sección de Botánica, Centro Nacional de Agricultura, San Pedro Montes de Oca. Received December 3, 1942.

Ojoché. A large handsome tree up to 100 feet high. The flowers are gathered and cooked with meal in cakes. The flowers, the small round fruits, and the foliage are eaten by livestock.

145561 to 145565.

From Brazil. Seeds presented by Ferdinand Febeliano da Costa Filho, Instituto Agronómico de Campinas, São Paulo. Received December 4, 1942.

145561 to 145563. CINCHONA OFFICINALIS L. Rubiaceae.

145561 to 145565—Continued.

Received as *Cinchona calisaya* var. *josephiana*.

145561. No. 31—1.

145562. No. 31—2.

145563. No. 31—3.

145564 and 145565. CINCHONA OFFICINALIS L.

Received as *Cinchona calisaya* var. *ledgeriana*.

145564. No. 1—20.

145565. No. 2—21.

145566. ENNEAPOGON CENCHROIDES (Licht.) C. E. Hubb. Poaceae.

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley. Received November 30, 1942.

145567. TARCHONANTHUS MINOR Less. Asteraceae.

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley, through Mrs. E. Zoe Harris, Modder River, Cape Province.

Received December 8, 1942.

A drought-resistant evergreen shrub that grows preferably in rocky places. For previous introduction see 143898.

145568. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From Maryland. Tree growing at the United States Plant Introduction Garden, Glenn Dale. Numbered December 15, 1942.

Hardee. Received from Bunting's Nurseries, Selbyville, Del., March 10, 1941.

145569 to 145571.

From Argentina. Seeds presented by A. T. Hunziker, Buenos Aires. Received December 8, 1942.

145569. ACROCOMIA TOTAI Mart. Phoenicaceae.

No. 2110.

145570. ARECASTRUM ROMANZOFFIANUM (Cham.) Becc. Phoenicaceae.

No. 2108.

145571. BUTIA YATAY (Mart.) Becc. Phoenicaceae.

No. 2109.

145572. AMPELOCISSUS ACAPULCENSIS (H. K. B.) Planch. Vitaceae.

From Mexico. Seeds presented by Emilio Locke, Hotel Costa Verde, Acapulco. Received December 10, 1942.

A large woody vine with broadly cordate coarsely dentate leaves 3 to 6 inches long, densely tomentose beneath, and small red flowers in dense cymes. The round, dark-red fruits are up to 1 inch in diameter. Native to southern Mexico.

For previous introduction see 144221.

145573 to 145584. SACCHARUM. Poaceae. Sugarcane.

From the Canal Zone. Received December 17, 1942.

145573. Caria Blanca × CP 1165.

145573 to 145584—Continued.

145574. *Caria Blanca* × *Kasoer*.
 145575. *Caria Blanca* × *Toledo*.
 145576. CO 281 × CP 1161.
 145577. *Criola* × P. O. J. 2878.
 145578. *Cristalina* × *Hind's Special*.
 145579. *Cristalina* × *Toledo*.
 145580. La. Purple × *Hind's Special*.
 145581. *Manjav* × CP 1165.
 145582. P.O.J. 2940 × CP 1165.
 145583. S.C. 1214 × CP 1165.
 145584. Yellow *Caladonia Imp.* 769 × CP 1165.

145585. CALICARPA AMERICANA L. Verbenaceae.

From Florida. Seeds presented by James B. McFarlin, National Parks Service, through Robert G. Wilson, Miami. Numbered December 22, 1942.

Variety *Lactea*. A white-fruited form.

145586 to 145589.

From Guatemala. Seeds collected by Dr. David Fairchild. Received November 12, 1941.

Collected on the place of Mrs. Robert Hempstead at Coban.

145586. OMANTHE sp. Phoenicaceae. Palm.

No. 1149. A handsome, tall, cluster palm with pinnate leaves and black round fruits on a one-branched fruit stalk, the branches of which are much curled and twisted. It strongly resembles the *Capuco* of Antigua.

145587. OMANTHE sp.

No. 1155. A handsome cluster palm very similar to the *Capuco* of Antigua. It is apparently related to the *Pacaya* (*Chamaedorea* sp.), but its inflorescences are not eaten. The fruits, round and black when ripe, are produced on slender and slightly tortuous one-branched inflorescences.

145588. CUPRESSUS BENTHAMII Endl. Pinaceae. Bentham cypress.

No. 1127. Collected on the shore of Lake Atitlan at an altitude of 5,200 ft., October 19, 1941. A cypress of elegant habit, often up to 90 feet high, with regularly pinnate, flattened branchlets. Native to southern Mexico and Central America at altitudes of 4,000 to 10,000 feet.

145589. OLMEDELLA BETSCHLERIANA (Goepp.) Loes. Flacourtiaceae.

No. 1150. *Manzanote*. A very attractive tree of pyramidal habit, with large, spiny-margined leaves; it is used quite extensively as a street tree in the cities of Antigua and Guatemala. Its fruits are tomato-shaped, flattened, with an extremely hard shell. The seeds are small, ovate, thin.

145590. PHAEOMERIA SPECIOSA (Blume) Koord. Zingiberaceae.

From Puerto Rico. Plants presented by T. B. McClelland, Puerto Rico Agricultural Experiment Station, Mayagüez. Received May 31, 1934. Numbered December 22, 1942.

A perennial herb up to 11 feet high with a thick rhizome and with hand-some gingerlike leaves often more than 2 feet long and 5 to 6 inches broad. The flower heads, subtended by numerous, showy, waxy bracts and borne on separate stalks up to 3 feet high, are often 6 inches across. The individual flowers are small, carmine with a narrow yellow margin, and are less conspicuous than the bracts, which are waxlike in appearance and up to 4

145590—Continued.

inches across. The inflorescence is excellent as a cut flower. The plant does well in moist conditions, as along the banks of streams. Native to Java.

For previous introduction see 137979.

145591. SOLANUM HIRSUTISSIMUM Standl. Solanaceae.

From Ecuador. Seeds presented by Dr. R. B. Harvey of General Mills, Inc. Numbered December 22, 1942.

Fruits better flavored than those of the *Naranjilla* (*Solanum quitoense* Lam.), and plant spiny. From Loja Mountains.

145592. DOVYALIS CAFFRA (Hook. & Harv.) Warb. (*Aberia caffra* Hook. & Harv.) Flacourtiaceae. Kei-apple.

From Florida. Seeds presented by Hubert Buckley, Saint Petersburg. Numbered December 23, 1942.

A very prickly shrub or small tree, native to tropical Africa, where it is used as a hedge. The pale-green leaves are over 1 inch long and nearly as wide. The edible fruit resembles a small yellow apple and is so exceedingly sour when fresh that it is said to be used as a pickle without adding vinegar. The present seeds are from a tree about 20 feet high, growing alone near Saint Petersburg, that is reported to have borne a good crop of fruit, although the species is supposed to be dioecious. Excellent jelly and fruit butter are said to have been made from the fruit.

For previous introduction see 101085.

145593. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From South America. Seeds presented by Dr. T. H. Goodspeed, Andes Expedition of the University of California. Received December 16, 1942.

No. 39.2238. Received as *L. peruvianum*, but seeds were not of that species.

145594. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

From India. Seeds presented by P. H. Rama Reddi, Director of Agriculture, Madras. Received December 16, 1942.

Received as *C. pubescens* Willd., which is considered to be a synonym of *C. melo*. It may be a distinct horticultural strain.

145595 to 145613.

From Uruguay. Seeds received through Herbst Brothers, New York, N. Y. Received December 2, 1942.

145595. ACANTHOSYRIS sp. Santalaceae.**145596. BAUHINIA CANDICANS Benth. Caesalpiniaceae.**

A thorny shrub, native to Uruguay and Argentina, with leaves heart-shaped at the base and cleft nearly to the middle at the apex. The creamy-white flowers are borne in whitish tomentose racemes and the petals are nearly 3 inches long.

For previous introduction see 94766.

145597. BERBERIS LAURINA Thunb. Berberidaceae.

A barberry with leathery, entire, ovate-elliptic leaves, mostly over 2 inches long, dense lax racemes of yellow flowers, followed by small black fruits. Native to southern Brazil.

For previous introduction see 130546.

145598. BLEPHAROCALYX TWEEDIEI (Hook. & Arn.) Berg. Myrtaceae.

145595 to 145613—Continued.

A subtropical tree, native to Uruguay, with lanceolate-acute leaves and axillary flowers in pairs.

For previous introduction see 101510.

145599. BUTIA ERIOSPATHA (Mart.) Becc. (*Cocos eriospatha* Mart.). Phoenicaceae. Apricot palm.

A handsome pinnate-leaved palm with violet-colored stems, creamy flowers, and edible yellow fruits the size of a small plum. Native to Brazil.

For previous introduction see 133015.

145600. CELTIS TALA Gillies. Ulmaceae. Nettle tree.

Tala. A small tree with a short, stout, branched trunk; suitable for street planting. The wood is yellowish white, moderately hard, and easily worked.

For previous introduction see 48663.

145601. CITHAREXYLUM BARBINERVE Cham. Verbenaceae.

A magnificent ornamental tree, with fragrant flowers, red fruits, and flexible vibrant wood that is used in the manufacture of guitars. Native to the cool and subtropical regions of Argentina.

For previous introduction see 42533.

145602. ENTEROLOBIUM TIMBOUVA Mart. Mimosaceae. Timbo.

A large tree with bipinnate leaves made up of 2 to 5 pinnae, each bearing 10 to 20 pairs of falcate-oblong leaflets, and large heads of greenish flowers, followed by coriaceous kidney-shaped pods. Native to Brazil.

For previous introduction see 124029.

145603. EUGENIA STRIGOSA (Berg) Arechav. Myrtaceae.

145604. GUETTARDA URUGUENSIS Cham. & Schlecht. Rubiaceae.

A small tree up to 20 feet high, with twisted branches. The membranous leaves, of varied forms ranging from ovate to lanceolate, are about 3 inches long and 1 inch across. The axillary, long-stalked cymes of white flowers have salver-shaped corollas and are followed by cylindrical, ovoid drupes $\frac{1}{3}$ inch in diameter. Native to Uruguay.

For previous introduction see 101515.

145605. JACARANDA CHELONIA Griseb. Bignoniaceae.

An Argentinian tree, sometimes as much as 90 feet high, with a rounded habit and attractive fernlike foliage. The large blue flowers are in terminal panicles a foot long. The wood is valued in Argentina for cabinet work.

For previous introduction see 124032.

145606. LUEHEA DIVARICATA Mart. Tiliaceae.

145607. MYRCIANTHES APICULATA Berg. Myrtaceae.

145608. PIPTADENIA RIGIDA Benth. Mimosaceae.

An unarmed tree or shrub with axillary heads of small white flowers and small, stiff, linear, shining-green leaflets. The long, slender, stiff winged pods are rich in tannin and the wood is used in shipbuilding.

For previous introduction see 104122.

145609. PROSOPIS NIGRA Hieron. Mimosaceae.

A shrub, or tree up to 40 feet high, with a short, twisted trunk, an umbrellalike crown, pinnate leaves, and clusters of yellow flowers. The handsome wood is used for furniture, carriages, etc.

For previous introduction see 50098.

145595 to 145613—Continued.

145610. QUILLAJA BRASILIENSIS (St. Hil. & Tul.) Mart. Rosaceae.

A Brazilian tree up to 25 feet high, with alternate oblong-lanceolate leaves and corymbs of white flowers. The symmetrical habit and very leafy crown of the tree make it a striking ornamental when in flower. The bark and wood contain saponin.

For previous introduction see 104124.

145611. RAPANEA LAETEVIRENS Mez. Myrsinaceae.

A shrub or small tree with entire, oblong, papery leaves nearly 3 inches long and small whitish flowers in dense axillary clusters. Native to Tucumán, Argentina.

For previous introduction see 88250.

145612. SCHINUS POLYGAMUS (Cav.) I. M. Johnst. (*S. dependens* Ortega). Anacardiaceae.

An ornamental spiny shrub or small tree, with fragrant pinnate leaves and dense racemes of small yellow flowers. Native to Chile.

For previous introduction see 144908.

145613. SEBASTIANIA KLOTZSCHIANA Muell. Arg. Euphorbiaceae.

A shrub 16 to 20 feet high, with narrowly elliptic leaves. Native to Uruguay.

145614. HIBISCUS CANNABINUS L. Malvaceae. Ambari hemp.

From Brazil. Seeds presented by Cecil M. P. Cross, American Consul General, São Paulo. Received December 24, 1942.

Papoula de São Francisco.

For previous introduction see 144727.

145615. SAPIUM TOLIMENSE Jumelle. Euphorbiaceae.

From Colombia. Seeds presented by Marshall G. Carlton. Received July 10, 1942.

145616 and 145617.

From Argentina. Seeds presented by Isidoro Weil & Cia., Buenos Aires, through B. B. Robinson, United States Department of Agriculture. Received December 23, 1942.

145616. CORCHORUS CAPSULARIS L. Tiliaceae.

Jute.

For previous introduction see 118770.

145617. CORCHORUS OLITORIUS L.

For previous introduction see 144997.

145618 to 145638. SORGHUM VULGARE Pers. Poaceae. Sorghum.

From Africa. Seeds presented by the Director of the Sugar Experiment Station, Mount Edgecombe, Natal. Received December 28, 1942.

145618. G-4. Sweet sorghum; Uganda.

145619. Isidomba. Sweet sorghum; South Africa.

145620. Isinyembane. Grain sorghum; South Africa.

145621. Jiba. Red sorghum; South Africa.

145622. Jiba. White sorghum; South Africa.

145623. L/20. Sweet sorghum; Uganda.

145624. Mabedlane. Sweet sorghum; South Africa.

145618 to 145638—Continued.

145625. *Mabeyana*. Sweet sorghum; South Africa.
145626. *Manyoblae*. Sweet sorghum; South Africa.
145627. *Masale Hlangeni*. Sweet sorghum; South Africa.
145628. *Mhlongo-Hlongo*. Sweet sorghum; South Africa.
145629. *Nyasaland*. Sweet sorghum; South Africa.
145630. *Sidonda*. Sweet sorghum; South Africa.
145631. *T/7*. Sweet sorghum; Uganda.
145632. *Tegwini*. Sweet sorghum; South Africa.
145633. *Tugela Ferry*. Sweet sorghum; South Africa.
145634. *Ufatame*. Sweet sorghum; South Africa.
145635. *Umzilanyoni*. Grain sorghum; South Africa.
145636. *Upondondhlovu*. Sweet sorghum; South Africa.
145637. *Wintersome*. Sweet sorghum; Southern Rhodesia.
145638. *Ziboyana*. Sweet sorghum; South Africa.

INDEX OF COMMON AND SCIENTIFIC NAMES

- Abacá. See *Musa textilis*.
Abelmoschus esculentus, 145003.
Abutilon reflexum, 144741.
Acacia decora, 143829.
 detinens, 143895.
 falcata, 143830.
 howitti, 143831.
 myrtifolia, 143832.
 oxycedrus, 143833.
 suaveolens, 143834.
Acaena ovalifolia, 144742.
Acalypha infesta, 144744.
 scandens, 144743.
Acanthospermum hispidum, 144745.
Acanthosyris sp., 145595.
Acer griseum, 143713.
 saccharum, 144122.
Achras zapota, 145004.
Aciotis cauliatalata, 144157.
Acrocomia totai, 145569.
Adenocalon chilense, 144339.
Adesmia fuentesii, 144340.
 parviflora, 144341.
 retusa, 144342.
Aeschynomene scoraria, 144746.
Aextoxicum punctatum, 144343.
Agave sisalana, 144148.
Albizia chinensis, 143880.
Aleurites fordii, 143840.
 moluccana, 143841.
 montana, 143842–143844, 144295–
 144300.
 trisperma, 143845.
Alfalfa. See *Medicago sativa*.
 yellow-flowered. See *M. falcata*.
Alona carnosa, 144344, 144345.
 filifolia, 144346.
 rostrata, 144347.
Alonsoa acutifolia, 144158, 144159,
 144747, 144748, 144752.
 incisifolia, 144348, 144349.
Alophia lahue, 144228.
Alstroemeria, yellow. See *Alstroemeria aurantiaca*.
Alstroemeria spp., 144353–144360,
 144362–144366.
 aurantiaca, 144350.
 pelegrina, 144351, 144352.
Alysicarpus sp., 145005.
Amaryllis spp., 143700, 143800.
Ambylopappus pusillus, 144367.
Ampelocissus acapulcensis, 144221,
 145572.
Amphibromus scabivalvis, 144041.
Amygdalus persica, 143739–143743,
 143827, 143828, 143904–143911,
 144127, 144128, 144145, 144642,
 144643, 144654–144656, 144661,
 144662, 145064, 145076, 145557,
 145568.
 persica var. *nectarina*, 143912,
 143913.
- Anemone* spp., 144229–144231.
 helleborifolia, 144749–144751.
Angophora subvelutina, 143835.
Anoda cristata, 144753.
Anodiscus peruvianus, 144754.
Apium laciniatum, 144372.
Aplopappus cuneifolius, 144368.
 hirtellus, 144370.
 glutinosus, 144369.
 pulchellus, 144371.
Apple. See *Malus* spp.
Apricot. See *Prunus armeniaca*.
Arachis hypogaea, 145042–145052.
 nambyquarae, 145097.
Arecastrum romanoffianum, 145570.
Aristida obtusa, 143896.
Aristolochia sp., 144160.
 chilensis, 144373.
Aristotelia chilensis, 144232, 144374.
Arundinaria amabilis, 145529.
Asclepias subulata, 143987.
Ash. See *Fraxinus uhdei*.
Aster sp., 144375.
Asteriscium chilense, 144376.
 pozooides, 144377.
Astragalus spp., 144385, 144973.
 berteri, 144378.
 bustilloisii, 144379.
 chamissonis, 144380.
 coquimbensis, 144381.
 curvicaulis, 144382, 144383.
 dodti, 144384.
 nudus, 144386.
 vesiculosus, 144387.
Astrebla lappacea, 144042.
Avena montana, 143982.
 pratensis, 143984.
 pubescens, 143983, 143985.
 sativa, 144290–144293, 144671–
 144674.
Avocado. See *Persea americana*.
Azara sp., 144361.
- Baccharis* spp., 144163–144166,
 144233–144235.
 floribunda, 144755, 144756.
 glutinosa, 144161, 144757.
 patagonica, 144388.
 riparia, 144162.
 sternbergiana, 144758.
 teindalensis, 144759, 144760.
Bahia ambrosioides, 144389.
Bamboo. See *Sinocalamus beecheyanus*.
Bangalay. See *Eucalyptus botryoides*.
Barberry. See *Berberis* spp.
 Darwin. See *Berberis darwinii*.
 Magellan. See *Berberis buxifolia*.
Barnadesia sp., 144167.
 dombeyana, 144761.

- Bartsia cinerea*, 144762.
densiflora, 144763.
hispida, 144168.
thiantha, 144764.
- Bauhinia* sp., 143962.
candidans, 145596.
- Bean, asparagus. See *Vigna sesquipedalis*.
 common. See *Phaseolus vulgaris*.
 jack. See *Canavalia ensiformis*.
 lima. See *Phasolus lunatus*.
- Metcalfe. See *P. metcalfei*.
 rice. See *P. calcaratus*.
 sword. See *Canavalia gladiata*.
 tepary. See *P. acutifolius* var. *latifolius*.
- Beefwood. See *Casuarina glauca*.
 Cunningham. See *C. cunninghamiana*.
- Beet, common. See *Beta vulgaris*.
Begonia spp., 144008, 144169.
clarkiae, 144765, 144766.
geraniifolia, 144767.
luxurians, 144007.
pleiopetala, 144768.
- Berberis* spp., 144940, 144948, 144949.
actinacantha, 144938, 144939.
buxifolia, 144941, 144942.
commutata, 144943.
darwinii, 144944-144946.
jamesiana, 143714.
jelskiana, 144947.
laurina, 145597.
- Beta vulgaris*, 144675.
- Bidens pilosa*, 144769.
riparia, 144770.
- Blackbutt. See *Eucalyptus pilularis*.
- Blepharocalyx divaricatus*, 144390.
tweediei, 145598.
- Boehmeria nivea* var. *tenacissima*, 144280.
- Bomarea distichophylla*, 144170.
multiflora, 144171.
ovata, 144771.
salsilla, 144391.
- Boquila trifoliata*, 144392.
- Boussingaultia diffusa*, 144772-144774.
- Bowlesia integririma*, 144393.
- Brachyotum lutescens*, 144775.
- Bridgesia incisifolia*, 144394, 144395.
- Briza rufa*, 144043.
- Bromegrass. See *Bromus inermis*.
- Broom. See *Cytisus monspessulanus*.
- Bromus inermis*, 144935-144937.
- Browallia americana*, 144776, 144777.
- Buddleia americana*, 144778.
globosa, 144396.
- Butia eriospatha*, 145599.
yatay, 145571.
- Butterflybush, globe. See *Buddleia globosa*.
- Butterflyflower. See *Schizanthus* sp.
- Bytneria cordata*, 144779.
hirsuta, 144780.
- Caá-heé. See *Stevia rebaudiana*.
- Cactus townsendii*, 144950.
- Caesalpinia corymbosa*, 144781.
spinosa, 144316, 144616, 144922.
- Cajanus cajan*, 145098, 145099.
- Calamagrostis viridi-flavescens*, 144044.
- Calandrinia* spp., 144406-144409.
adscendens, 144410-144412.
cymosa, 144398.
frigida, 144402.
gayanoides var. *hirtella*, 144403.
grandiflora, 144397.
litoralis, 144399.
parviflora, 144401.
polia, 144404.
sericea, 144405.
trifida, 144400.
- Calceolaria* spp., 144172, 144236-144239, 144417-144424, 144785, 144786, 144974, 144975.
adscendens, 144410-144412.
aquatica, 144782.
chelidonioidea, 144783.
corymbosa, 144413, 144414.
lepidota, 144415.
petiolaris, 144416.
salicifolia, 144784.
- Calodcluvia paniculata*, 144425.
- Callianтра chilensis*, 144426.
haematocephala, 144005.
- Callicarpa americana*, 145585.
- Callitris robusta*, 143836.
- Calonyction aculeatum*, 144787.
- Calopogonium mucunoides*, 143801.
- Calycera sessiliiflora*, 144427.
- Campsidium chilense*, 144428, 144429.
- Canavalia* sp., 143733.
ensiformis, 143871, 145100.
gladiata, 143872, 145101.
- Candlenut. See *Aleurites moluccana*.
- Capsicum frutescens*, 143876, 143886, 144951, 144952, 145006, 145007.
- Cardamine* sp., 144430.
- Cardiospermum corindum*, 144788, 144789.
- Carex cataractae*, 144431.
- Carica papaya*, 143785, 143796-143799, 144225, 144227.
- Carludovica palmata*, 144070.
- Carpinus turczaninovii*, 143715.
- Carya ovata*, 143882.
- Cassava. See *Manihot esculenta*.
- Cassia multijuga*, 143899.
obovata, 144309.
tora, 145008.
- Castilla elastica*, 143986, 144670.
- Castilleja communis*, 144173.
fissifolia, 144792.
fissifolia var. *pumila*, 144790, 144791, 144793.
- Castor-bean. See *Ricinus communis*.
- Casuarina cunninghamiana*, 143922.
glauca, 143923.
stricta, 143924.

- suberosa*, 143925.
torulosa, 143926.
- Celtis tala*, 144976, 145600.
- Centaurea atacamensis*, 144432.
chilensis, 144433.
- Centella asiatica*, 143695.
- Centropogon cornutus*, 144796.
cuspidatus, 144794, 144977.
longifolius, 144795.
- Cephalocereus melanostele*, 144797.
- Cephalophora litoralis*, 144434.
urmenetae, 144435.
- Cerastium* sp., 144798.
viscosum, 144436.
- Cereus macrostibas*, 144799.
- Cestrum*, Chilean. See *Cestrum parqui*.
- Cestrum parqui*, 144437.
strigillatum, 144174.
- Chaetanthera* spp., 144619, 144620.
acerosa, 144438.
- Chaptalia nutans*, 144800.
- Chelonanthus alatus*, 144917.
- Chenopodium pallidicaule*, 145039,
 145055.
quinoa, 145056-145063.
- Chloris gayana*, 143897.
- Chuquiraga* sp., 144240.
ferox, 144801.
- Cinchona*, 144085-144087, 144106-
 144114.
 spp., 144081-144084.
officinalis, 143792, 143953, 143981,
 144071-144077, 144093-
 144102, 144658, 144993,
 145561-145565.
pubescens, 143793, 143794,
 144078-144080, 144103-
 144105, 144659.
- Cissampelos tropaeolifolia*, 144802.
- Cissus striata*, 144439.
- Citharecyllum barbinerve*, 145601.
- Citrullus vulgaris*, 145009.
- Citrumeo*. See *Citrus paradisi* ×
Poncirus trifoliata.
- Citrus* spp., 143791, 143903.
aurantium var. *myrtifolia*,
 143686.
paradisi × *Poncirus trifoliata*,
 143764.
reticulata, 143699.
- Clematis* sp., 144440.
brachiata, 144665.
hüarii, 144978.
macropetala, 143716.
- Cleome* spp., 144175-144177.
chilensis, 144241, 144441, 144442,
 144803-144805.
herrerae, 144806, 144807.
- Clover*. See *Trifolium tumens*.
alsike. See *T. hybridum*.
red. See *T. pratense*.
white. See *T. repens*.
- Coccocypselum condalia*, 144808.
- Coffea arabica*, 145065, 145066.
arabica var. *goiaba*, 145067.
arabica var. *laurina*, 145068.
arabica var. *maragogipe*, 145069,
 145070.
arabica var. *mokka*, 145071.
arabica var. *polysperma*, 145072.
arabica var. *purpurascens*,
 145073.
arabica var. *typica*, 145074,
 145075.
- Coffee*, Arabian. See *Coffea arabica*.
- Collomia biflora*, 144443.
- Commelinia* sp., 144809.
- Conyza chilensis*, 144444.
gnaphaloides, 144178.
- Copihue*. See *Lapageria rosea*.
- Corchorus capsularis*, 145616.
olitorius, 144810, 144997, 145617.
pilolobus, 144810.
- Cordia decandra*, 144445.
polyantha, 144811.
- Coriaria ruscifolia*, 144446.
- Corn*. See *Zea mays*.
- Cosmos* sp., 144179.
- Cotoneaster conspicua*, 143717.
wardii, 143718.
- Cotton*. See *Gossypium* spp.
- Cowpea*. See *Vigna sinensis*.
- Crassula connata*, 144180.
- Cremolobus pinnatifidus*, 144812.
- Crinodendron patagua*, 144447.
- Cristaria dissecta*, 144448.
formosula, 144813.
- Crocopsis fulgens*, 143788.
- Crotalaria pumila*, 144181.
retusa, 145102.
- Croton* sp., 143734, 144815.
alnifolius, 144814.
- Crukshanksia* spp., 144451-144453.
pumila, 144449, 144450.
- Crusea violacea*, 143712.
- Cryophyllum crystallinum*, 144454.
- Cryptostegia* sp., 143988.
grandiflora, 145096.
- Cucumis melo*, 144676-144678, 145010,
 145594.
- Cucurbita moschata*, 145011, 145012.
- Cupressus benthamii*, 145588.
- Cushaw*. See *Cucurbita moschata*.
- Cyamopsis tetragonoloba*, 144324-
 144328, 144989, 144990, 145103.
- Cyclanthera mathewsii*, 144816,
 144817.
- Cyphocarpus innocuous*, 144455.
- Cypress*, Bentham. See *Cupressus benthamii*.
- Cypress-pine*. See *Callitris robusta*.
- Cytisus monspessulanus*, 144456.
- Dahlia rosea*, 144182.
- Dalea ayacacensis*, 144818.
- Dandelion*. See *Taraxacum kok-saghyz*.
- Datura sanguinea*, 144824.

- Daucus montanus*, 144953.
montevidensis, 144457.
- Denmoza rhodacantha*, 144979.
- Derris elliptica*, 144149, 144150.
- Descurainia* sp., 144459.
pimpinellifolia var. *glaucescens*,
 144458.
- Desmodium barbatum*, 145104.
nicaraguense, 145038.
uncinatum, 144819.
- Digitaria* sp., 145532.
- Dioscorea alata*, 144154.
- Discaria serratifolia*, 144460, 144461.
- Dodonaea viscosa*, 144820.
- Dogbrier. See *Rosa canina*.
- Dolichos lablab*, 143873, 143874,
 145013.
- Domeykoa oppositifolia*, 144462.
- Doniophytton anomalam*, 144463.
- Dovyalis caffra*, 145592.
- Dunalia brachystemon*, 144821.
- Duranta* sp., 144823.
dombeyana, 144822.
triacantha, 144825.
- Durian. See *Durio zibethinus*.
- Durio zibethinus*, 143921.
- Eleusine tristachya*, 144045.
- Embothrium coccineum*, 144464–
 144466.
grandiflorum, 144826.
- Encelia canescens*, 144827.
canescens var. *lanuginosa*,
 144467.
canescens var. *tomentosa*, 144468.
- Enneapogon cenchroides*, 145566.
- Enterolobium timbouva*, 145602.
- Ephedra* spp., 144242, 144469, 144470.
- Epilobium chilense*, 144471.
denticulatum, 144828.
glaucum, 144472.
haenkeanum, 144183.
valdiviense, 144473.
- Eragrostis* sp., 144666.
bicolor, 144307.
brizantha, 144667.
echinochloidea, 144330.
lehmanniana, 144090, 144091,
 144668.
lehmanniana var. *ampla*, 144308.
porosa, 144669.
- Eremocitus* × *Citrus*, 143687.
glaucum, 144054–144056, 144156.
- Erigeron* spp., 144243, 144474, 144829.
- Escallonia* sp., 144476.
pulverulenta, 144475.
- Eucalyptus* spp., 143685, 143950.
baileyana, 143927.
botryoides, 143928.
camaldulensis, 143765.
citriodora, 143766, 143929,
 143990.
cloeziana, 143767, 143991.
crebra, 143992.
- eugeniodes*, 143930.
exserta, 143931.
- gummifera*, 143768, 143982,
 143993.
- hemiphloia*, 143933.
kirtoniana, 143934.
- maculata*, 143769, 143935, 143994.
- meliiodora*, 143936.
- micrantha*, 143937.
- microcarpa*, 143938.
- microcorys*, 143770, 143939,
 143995.
- paniculata*, 143771, 143940,
 143996.
- pilularis*, 143772, 143941, 143997.
- populifolia*, 143942.
- propinquua*, 143943.
- racemosus*, 143773.
- resinifera*, 143774, 143944,
 143998.
- robusta*, 143710, 143945.
- saligna*, 143775, 143946, 143999.
- stangeriana*, 143776, 144000.
- tereticornis*, 143947, 144001.
- trachyphloia*, 143777, 144002.
- triantha*, 143778, 143948, 144003.
- umbra*, 143949.
- wandoo*, 143877.
- watsoniana*, 143860.
- Eucryphia cordifolia*, 144477.
- Eugenia strigosa*, 145603.
- Euonymus grandiflorus* f. *salicifolius*,
 143719.
- Eupatorium* spp., 144184, 144185.
glomeratum, 144830.
- Euphorbia* spp., 143859, 144980.
lancifolia, 143711.
nutans, 144831.
- Euphrasia subexserta*, 144478.
- Eurythalia umbellata*, 144839.
- Excremis coarctata*, 144832.
- Feathergrass. See *Stipa hyalina*.
- Fennel. See *Foeniculum vulgare*.
- Festuca* sp., 144046.
- Ficus* sp., 144037.
mallotocarpa, 144038.
mindorensis, 144039.
pretoriae, 144310.
satterthwaitei, 144040.
- Fitzroya cupressoides*, 144479.
- Floripondio, red. See *Datura sancta*.
- Flourensia thurifera*, 144480.
- Foeniculum vulgare*, 144281.
- Fragaria* sp., 143952.
- Fraxinus uhdei*, 144996.
- Fuchsia, Magellan. See *Fuchsia magellanica*.
- Fuchsia macrophylla*, 144833.
magellanica, 144481.
rosea, 144482.
- Fumaria capreolata*, 144834.

- Gaiadendron punctatum*, 144835.
Galactia speciosa, 144186.
Galvesia ballii, 144836.
fruticosa, 144837.
Gardenia tubifera, 143786.
Gaultheria spp., 144187, 144484.
brachybotrys, 144483.
erecta, 144188.
Gentiana spp., 144485, 144486.
stricticaulis, 144838.
Geranium spp., 144488–144490.
boliviannum, 144189.
limae, 144840.
magellanicum, 144487.
Gerardia lanceolata, 144190.
linariooides, 144491.
Gilia crassifolia, 144492–144495.
gracilis, 144496.
Ginger. See *Zingiber officinale*.
Glycine javanica, 145105.
max, 145079–145092.
Gossypium, 143839, 144119, 144120,
144146, 145118–145122, 145530.
sp., 143809.
raimondii, 143879.
tomentosum, 143916.
Granadilla, sweet. See *Passiflora ligularis*.
Grape, purple. See *Ampelocissus acapulcensis*.
white. See *Vitis* sp.
Grass. See *Amphibromus scabrivalvis*, *Aristida obtusa*, *Astrebla lappacea*, *Avena montana*, *Briza rufa*, *Calamagrostis viridi-flavescens*, *Digitaria* sp., *Eleusine tristachya*, *Eragrostis* spp., *Eragrostis lehmanniana*, *Festuca* sp., *Hordeum* spp., *Hyparrhenia rufa*, *Mansuris selliana*, *Poa lanigera*, *Pogonarthria squarrosa*, *Tridens brasiliensis*.
Rhodes. See *Chloris gayana*.
rooii. See *Themeda triandra*.
Greigia sphacelata, 144497, 144498.
Groundcherry. See *Physalis angulata*.
Guar. See *Cyamopsis tetragonoloba*.
Guettarda uruguensis, 145604.
Gum, brown. See *Eucalyptus robusta*.
honey. See *E. melliodora*.
mahogany. See *E. resinifera*.
slaty. See *E. tereticornis*.
spotted. See *E. maculata*.
Gymnophyton foliosum, 144499.
Hedera canariensis, 144123.
Heliconia sp., 144998.
Helicostylis ojooche, 145560.
Hemp, ambari. See *Hibiscus cannabinus*.
Hesperomeles heterophylla, 144991,
144992.
pernettyoides, 144191.
- Hevea brasiliensis*, 144057–144067,
145040.
Hibiscus cannabinus, 144727, 145614.
elatus, 144142, 144143.
sabdariffa, 143963, 144294.
Hickory, Shagbark. See *Carya ovata*.
Hoffmannseggia viscosa, 144842.
Holly, Chinese. See *Ilex cornuta*.
Hopbush. See *Dodonaea viscosa*.
Hordeum bulbosum, 144047.
compressum, 144048, 144049.
Hyacinth-bean. See *Dolichos lablab*.
Hybanthus parviflorus, 144244.
Hyparrhenia rufa, 145014.
Hypericum humifusum, 144500.
Hypochoeris spp., 144246, 144247,
144844, 144503–144510.
brasiliensis, 144245.
elata, 144843.
radicata, 144502.
scorzonerae, 144501.
Hypoxis decumbens, 144845.
Hyptis kuntzeana, 144192.
mutabilis, 144846.
sidifolia, 144847.
Ilex cornuta, 143795.
Indigo. See *Indigofera* spp.
Indigofera colutea, 145556.
hirsuta, 144994, 145106.
suffruticosa, 144193, 144194.
Iochroma grandiflora, 144848.
Ipomoea spp., 144511–144513, 144981.
asarifolia, 144849.
batatas, 144664, 145034–145038.
murucoides, 144004.
Ironbark, narrowleaf. See *Eucalyptus crebra*.
Jacaranda chelonia, 145605.
flicifolia, 145095.
Jackbean. See *Canavalia ensiformis*.
Jatropha sp., 145032.
curcas, 143735.
excisa, 144248.
Juglans nigra, 143883.
regia, 145554, 145555.
Jujube. See *Ziziphus mucronata*.
Jussiaea peruviana, 144249, 144850,
144851.
suffruticosa, 144852.
Jute. See *Corchorus* spp.
Kalanchoe sp., 144006.
Kei-apple. See *Dovyalis caffra*.
Krameria triandra, 144982.
Kumquat, Australian, dessert. See
Eremocitrus glauca.
Lantana sp., 144854.
limensis, 144853.
Lapageria rosea, 144514.
Lapsana communis, 144515.
Lathyrus sp., 144516.
magellanicus, 144954.

- Lepechinia confusa*, 144195.
floribunda, 144855.
lamifolia, 144856.
- Leptocarpha rivularis*, 144517.
- Leucocarpus perfoliatus*, 144857.
- Libidibia punctata*, 143900.
- Licania rigidia*, 144301.
- Linaria texana*, 144519.
- Lippia* sp., 144858.
- Liquidambar styraciflua f. rotundiloba*, 143803, 143846.
- Litchi chinensis*, 143682.
- Lithospermum macbridei*, 144859.
- Lithraea caustica*, 144250.
- Lotus subpinnatus*, 144520.
uliginosus, 145094.
- Luehea divaricata*, 145606.
- Luffa acutangula*, 144930, 144981.
aegyptiaca, 143878, 143914,
143915, 144069, 144121,
144124-144126, 144141,
144147, 144282, 144283,
144932-144934.
astori, 143698, 144983.
- Lumbang*, soft. See *Aleurites trisperma*.
- Lupine*. See *Lupinus angustifolia*.
- Lupinus* spp., 144251, 144523, 144860,
144984.
angustifolia, 145053.
luteus, 145054.
microcarpus, 144521, 144522.
- Luzula* sp., 144524.
- Lychee*. See *Litchi chinensis*.
- Lycium chilense*, 144525.
- Lycopersicon esculentum*, 143847-
143858, 144679, 144680, 145015,
145593.
peruvianum, 144955.
- Magnolia mollicomata*, 145531.
- Magnolis sinensis* × *wilsonii*, 143720.
- Malacocarpus* spp., 144528, 144529.
curvispinus, 144530.
- Malacothrix coulteri*, 144526.
- Malesherbia paniculata*, 144527.
- Malus* spp., 143973, 143974, 144017,
144018, 144021, 144022, 144026-
144032.
adstringens, 144025.
astracanica, 144020.
sylvestris, 143884, 143885,
143888-143894, 143917-
143920, 144009-144016,
144019, 144023, 144024,
144088, 144329.
- Malva parviflora*, 144155.
- Malvastrum peruvianum*, 144861.
tenellum, 144196.
- Manihot* sp., 144144.
esculenta, 144729-144740.
- Manisuris selliana*, 144050.
- Maple*. See *Acer griseum*.
sugar. See *Acer saccharum*.
- Maqui*. See *Aristotelia chilensis*.
- Matelea lanata*, 144068.
- Mathewsia incana*, 144531.
- Medic. See *Medicago ciliaris*.
- Medicago* sp., 145123.
ciliaris, 143861, 143862.
falcata, 145124-145126.
intertexta, 143863, 143864.
praecox, 143865, 143866.
rugosa, 143867, 143868.
sativa, 144314, 145127-145136,
145200-145528.
scutellata, 143869, 143870.
- Meibomia uncinata*. See *Desmodium uncinatum*.
- Melastoma* sp., 144862.
- Melilotus alba*, 145137.
officinalis, 145138.
- Menonvillea chilensis*, 144532.
- Miconia* sp., 144841.
- Microphyes litoralis*, 144533.
- Mimulus* sp., 144537.
glabratus, 144534.
luteus, 144535, 144536.
- Mirabilis* sp., 144863.
- Mitraria coccinea*, 144985.
- Monnieria angustifolia*, 144538, 144539.
pterocarpa, 144864, 144865.
- Monochaetum lineatum*, 144866.
- Moonflower. See *Calonyction aculeatum*.
- Morrenia odorata*, 144252.
- Muehlenbeckia peruviana*, 144197.
- Mu-oil tree. See *Aleurites montana*.
- Musa textilis*, 144302.
- Muskmelon. See *Cucumis melo*.
- Mutisia* sp., 144540.
peduncularis, 144867.
- Myrcianthes apiculata*, 145607.
- Myristica fragrans*, 145077.
- Naranjilla. See *Solanum quitoense*.
- Nassauvia* sp., 144253.
- Nectarine. See *Amygdalus persica* var. *nectarina*.
- Neopoteria* sp., 144542.
nidus, 144541.
- Nettle tree. See *Celtis tala*.
- Nicandra physalodes*, 144868-144870.
- Nierembergia hippomanica*, 144254.
- Nightshade, black. See *Solanum nigrum*.
- Nolana* spp., 144547, 144548.
acuminata, 144543.
aplocaryoides, 144544.
divaricata, 144545.
lycioides, 144871.
rupicola, 144546.
spathulata, 144872, 144873.
- Nothofagus obliqua*, 144549, 144550.
- Nothoscordum* sp., 144986.
- Nototrichie compacta*, 144551.
- Notro. See *Embothrium coccineum*.
- Nutmeg, common. See *Myristica fragrans*.

- Oak, cork. See *Quercus suber*.
 Oats. See *Avena sativa*.
 Oca. See *Oxalis tuberosa*.
Oenothera campylocalyx, 144198.
contorta, 144552-144554.
coquimbensis, 144555.
drummondii, 144874.
lacinia var. *limensis*, 144875,
 144876.
rosea, 144556.
 Okra. See *Abelmoschus esculentus*.
Olea macrocarpa, 144289.
Olmediella betschleriana, 145589.
Olyra latifolia, 144877.
Omanthe spp., 145586, 145587.
Ophryosporus triangularis, 144557.
Opuntia spp., 144558.
Orthocarpus attenuatus, 144559.
Oryza sativa, 143744-143753, 143964,
 145016, 145017.
Ourisia coccinea, 144561.
serpyllifolia, 144560.
Oxalis spp., 144570-144573.
bulbocastanum, 144562.
gigantea, 144563.
laxa, 144564.
lineata, 144565.
lotoides, 144878.
maritima, 144566.
megalorrhiza, 144567, 144879.
melilotoides, 144880.
micrantha, 144568.
platypila, 144569.
serpens, 144255.
tuberosa, 144224, 144304, 144305.
Paeonia corallina, 143721.
delavayi, 143722.
emodi, 143723, 143724.
mlokosewitschi, 143725.
veitchii, 143727, 143728.
willmottiae, 143726.
wittmanniana, 143780.
wittmanniana var. *tomentosa*,
 143729.
Palandra aequatorialis, 143901.
 Palm. See *Omanthe* spp.
 apricot. See *Butia eriospatha*.
 ivory. See *Palandra aequatorialis*.
 windmill. See *Trachycarpus*
excelsus.
 Panama-hat plant. See *Carludovica*
palma.
 Papaya. See *Carica papaya*.
 Parsley. See *Petroselinum crispum*.
Passiflora ligularis, 143703.
mollissima, 144881.
purpurea, 143951.
 Passionflower, softleaf. See *Passiflora*
mollissima.
 Patagua. See *Crinodendron patagua*.
Paulinia alata, 144882.
 Pea. See *Pisum sativum*.
 Lord Anson. See *Lathyrus magellanicus*.
 Peach. See *Amygdalus persica*.
 Peanut. See *Arachis* spp.
 Pear. See *Pyrus* spp.
 common. See *Pyrus communis*.
Pectis sp., 144883.
Pelargonium sp., 144574.
Penstemon haydeni, 143838.
 Peony. See *Paeonia* spp.
 Pepper, black. See *Piper nigrum*.
Perezia sp., 144256.
Persea sp., 144226.
americana, 145030, 145031.
Perymenium featherstonei, 144884.
Petroselinum crispum, 145018.
Petunia sp., 144257-144260.
Peumus boldus, 144575.
Phaeomeria speciosa, 145590.
Phaseolus acutifolius var. *latifolius*,
 145107.
calcaratus, 145108.
lunatus, 143875, 145019.
metcalfei, 145109.
mungo, 145110.
trinervius, 145111.
vulgaris, 144158, 145020.
Photinia villosa f. *maximowicziana*,
 143804.
Phrodus bridgesii, 144576.
Phyllanthus brasiliensis, 144885.
Physalis angulata, 144886.
Phytolacca bogotensis, 144199.
rivinoides, 144200.
 Pigeonpea. See *Cajanus cajan*.
Pilea serpyllacea, 144887.
Pintoa sp., 144577.
Piper nigrum, 144151.
Piptadenia rigida, 145608.
Piqueria peruviana, 144888.
 Pistachio. See *Pistacia vera*.
Pistacia vera, 143707-143709.
Pisum sativum, 143887.
Pithecellobium brevifolium, 144657.
Pluchea sp., 144889.
 Plum, common. See *Prunus domestica*.
Poa lanigera, 144051.
Podanthus mitiqui, 144578.
Pogonarthria squarrosa, 144092.
Polemonium gyanum, 144579.
Polyachyrus fuscus, 144580.
Polylepis incana, 144890.
Polyminia glabrata, 144891.
Porophyllum sp., 144202.
ruderale, 144201, 144892, 144893.
Portulaca sp., 144203.
 Potato. See *Solanum tuberosum*.
Prionophyllum maritimum, 143696.
Prosopis nigra, 145609.
strombulifera, 144303.
Prunus, 144033.
spp. 143975, 143976, 144089,
 144650, 144728-144725.
armeniaca, 143954-143959,
 144644, 144645, 144651-
 144653, 144681-144721.

- domestica*, 144647, 144648, 144722.
spinosa, 144649.
- Psoralea lasiostachys*, 144894.
- Psychotria* sp., 144895.
- Pueraria phaseoloides*, 143802, 145021.
- Pyrus* spp., 143977-143980, 144084-
 144036.
communis, 144311-144313.
- Quercus suber*, 144116-144118.
- Quillaja brasiliensis*, 145610.
- Quinoa*. See *Chenopodium pallidicaule*.
- Ranunculus praemorsus*, 144896.
- Rapanea laetevirens*, 145611.
- Rechsteineria peruviana*, 144897,
 144898.
- Redpepper. See *Capsicum frutescens*.
- Rhynchospora* sp., 144899.
- Rice. See *Oryza sativa*.
- Ricinus communis*, 144999, 145546-
 145548.
- Romulea ramosa*, 144115.
- Rosa* sp., 143731.
canina, 144581.
- Roselle. See *Hibiscus sabdariffa*.
- Rosemallow, mountain. See *Hibiscus elatus*.
- Rubbertree, Mexican. See *Castilla elastica*.
- Para. See *Hevea brasiliensis*.
- Rubbervine, Palay. See *Cryptostegia grandiflora*.
- Rubus* sp., 144726.
- Ruprechtia apetala*, 144204.
- Ruta chalepensis*, 144582.
- Saccharum*, 143705, 143706, 143762,
 144139, 144278, 144279, 144284-
 144288, 145093, 145535-145545,
 145573-145584.
- Salacia* sp., 143787.
- Salpiglossis* spp., 144261-144263,
 144585.
parviflora, 144587.
sinuata, 144583, 144584.
- Salvia* spp., 143704, 144586, 144987.
biflora, 144900.
florida, 144901.
oppositiflora, 144902, 144903.
rhombifolia, 144904.
tubiflora, 144905.
- Sapium tolimense*, 145615.
- Sapodilla. See *Achras zapota*.
- Saracha* sp., 144906.
- Satureja multiflora*, 144588.
- Saxifraga magellanica* var. *peruviana*,
 144907.
- Schinus polygamus*, 144264, 144589,
 144908, 145612.
- Schizanthus* sp., 144205.
- Schizolobium amazonicum*, 145022.
- Schizopetalon rupestre*, 144590.
- Scleria sylvestris*, 144909.
- Scorzonera* sp., 144306.
tau-saghyz, 144972.
tortuosissima, 145041.
- Sebastiania klotzschiana*, 145613.
- Seemannia cuneata*, 144206.
- Senecio* spp., 144207-144209, 144265,
 144266, 144595, 144596.
denticulatus, 144591.
hakeifolius var. *ochroleucus*,
 144592, 144593.
sinuatifolus var. *littoralis*,
 144594.
- Sesame. See *Sesamum indicum*.
- Sesamum indicum*, 143965, 143966.
- Sesbania paulensis*, 145112.
- Sida angustifolia*, 144910.
lomageiton, 144911.
- Silene andicola*, 144912.
cucubalus, 144597.
- Sinocalamus beecheyanus*, 143688-
 143693.
- Sisal. See *Agave sisalana*.
- Sisymbrium* sp., 144210.
- Sisyrinchium* spp., 144598, 144599.
lacuum, 144287.
- Skyflower. See *Duranta triacantha*.
- Solanum* sp., 143736, 144213-144215,
 144604, 144963-144968.
abutiloides, 144268.
agrarium, 145559.
albidum, 144956.
andigenum, 143754-143761.
brachyantherum, 144600.
diphyllum, 144957.
elaeagnifolium, 144601, 144602.
hirsutissimum, 145591.
nigrum, 144958.
pallidum, 144211.
pinnatifidum, 144959.
pinnatum, 144603.
quitoense, 143694, 144315.
radicans, 144960.
riparium, 144961.
sisymbrifolium, 144212.
tuberiferum, 144962.
tuberosum, 143683, 143684,
 145000-145002, 145558.
- Sonchus oleraceus*, 144913.
- Sophora* sp., 144988.
 fourwing. See *Sophora tetraptera*.
tetraptera, 144605, 144606.
- Sorghum. See *Sorghum vulgare*.
- Sorghum vulgare*, 143967, 143968,
 144129-144138, 144331-144338,
 145618-145638.
- Soybean. See *Glycine max*.
- Spergularia depauperata*, 144607.
- Sphaeralcea obtusiloba*, 144608.
- Stachys* sp., 144611.
grandidentata, 144609.
peruviana, 144914.
pusilla, 144915.
serrata, 144610.
- Staphylea holocarpa* var. *rosea*,
 143732.

- Statice* sp., 144269.
Stellaria cuspidata, 144612-144614,
 144916.
Stenolobium arequipense, 144615.
Stenomesson sp., 143701.
pearcei, 143789.
variegatum, 143790.
Stevia spp., 144216, 144271.
rebaudiana, 144728, 144995.
satureiaefolia, 144270.
Stipa hyalina, 144052.
Stizolobium sp., 145115.
aterimum, 145113.
deeringianum, 145114.
 Strawberry. See *Fragaria* sp.
Stylosanthes guianensis, 145116.
 Sugarcane. See *Saccharum*.
 Sweetclover, white. See *Melilotus alba*.
 yellow. See *M. officinalis*.
 Sweetpotato. See *Ipomoea batatas*.
Swinglea glutinosa, 144663.
 Swordbean. See *Canavalia gladiata*.
Syncretocarpus sericeus, 144918.
Syzygium smithii, 143837.
- Tabebuia serratifolia*, 143902.
Talinum sp., 145023.
paniculatum, 144217.
triangulare, 144919-144921.
Taraxacum kok-saghyz, 143960,
 143961, 143989, 144646, 144660.
Tarchonanthus minor, 143898, 145567.
Tecoma sp., 144617.
Tephrosia spp., 144320, 144322,
 144323.
eriosmoides, 144317.
radicans, 144318.
toxicaria, 144319.
vogelii, 144321.
Terminalia sp., 143737.
Tessaria integrifolia, 144923.
Tetrapleura sp., 143969.
Themeda triandra, 145533.
 Tiaci. See *Caldcluvia paniculata*.
 Timbo. See *Enterolobium timbouva*.
 Tomato. See *Lycopersicon esculentum*.
Tovaria pendula, 144218.
 Towelgourd, Singkwa. See *Luffa*
acutangula.
 Suakwa. See *L. aegyptiaca*.
Trachycarpus excelsus, 143763.
 Tree, nettle. See *Celtis tala*.
 Treebine, striped. See *Cissus striata*.
Tribulus sp., 144924.
Trichocereus sp., 144618.
Tridens brasiliensis, 144053.
Trifolium hybridum, 145139.
pratense, 143881, 145140-145165.
repens, 145166-145196.
tumens, 145197.
Triticum spp., 143779-143784.
aestivum, 145549-145553.
Triumfetta semitriloba, 144925.
- Trixis* sp., 144272.
radialis, 144926.
 Tung tree. See *Aleurites fordii*.
Ugni molinae, 144621.
 Undetermined, 143738, 144223, 144518,
 145204-145528.
 Urd. See *Phaseolus mungo*.
Urera caracasana, 144219.
- Vaccinium* sp., 145078.
Valeriana sp., 144623.
bridgesii, 144622.
interrupta, 144927.
 Velvetbean. See *Stizolobium aterri-*
mum.
 Deering. See *S. deeringianum*.
Verbascum sp., 144624.
Verbena sp., 144273.
origenes, 144625.
sulphurea, 144626.
Verbesina sp., 144220.
auriculigera, 144928.
Veronica anagallis-aquatica, 144627,
 144628.
persica, 144629.
 Vetch. See *Vicia* spp.
Vicia spp., 144969, 144970.
apiculata, 144630.
nigricans, 144631.
Vigna luteola, 144971.
sesquipedalis, 145024.
sinensis, 143970, 145025-145027,
 145198, 145199.
Viola sp., 144632.
ovalleana, 144633, 144634.
polypoda, 144635, 144636.
pusilla, 144637, 144638.
rubella, 144639.
taltalensis, 144640.
 Violet. See *Viola* spp.
Vitis spp., 144222, 145028.
Voandzeia subterranea, 143971,
 145117.
- Wahlenbergia linarioides*, 144274.
 Walnut, black. See *Juglans nigra*.
 Persian. See *Juglans regia*.
 Watermelon. See *Citrullus vulgaris*.
Wedelia sp., 144929.
bupthalmiflora, 144275.
 Wheat. See *Triticum* spp.
 common. See *Triticum aestivum*.
Wisteria sp., 144641.
- Yam, winged. See *Dioscorea alata*.
- Zea mays*, 143697, 143805-143808,
 143810-143826, 143972, 145029.
Zephyranthes tubiflora, 143702.
Zingiber officinale, 144140, 144152.
Zinnia spp., 144276, 144277.
Ziziphus mucronata, 145534.