

# UNITED STATES DEPARTMENT OF AGRICULTURE



## INVENTORY No. 128



Washington, D. C.



Issued May 1941

### PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY, JULY 1 TO SEPTEMBER 30, 1936 (Nos. 116966 to 118410)

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#### INTRODUCTORY STATEMENT

Inventory No. 128 is a record of the plant material (Nos. 116966 to 118410) received by the Division of Plant Exploration and Introduction during the period from July 1 to September 30, 1936.

It records the first shipments of seeds and bulbs from H. L. Westover and F. L. Wellman, who left in the spring of 1936 for Turkey and Iran. The colder mountainous regions of these two countries, where agriculture has been the chief occupation for countless generations, offer a promising field for the collection of native strains of vegetables and fruits, especially in the markets and gardens of the more isolated villages and towns. Also included in these shipments were a number of grasses and forage plants from the semiarid parts of these countries.

The three agricultural explorers whose activities were discussed in the introductory statement of the preceding inventory (No. 127), Walter Koelz, W. A. Archer, and Raymond Stadelman, continued to send in material, during this period, from India, Brazil, and western South America, respectively. As before, the nature of the plant material received from them reflects the special needs of plant breeders and geneticists working with important crop plants.

The Department is again indebted to H. R. Wright, Auckland, New Zealand, who, during the past two decades, has presented material of new and little-known fruit varieties from his Avondale nursery. This shipment consists of plants of 25 different varieties of fruits (Nos. 117462 to 117486), including peaches, apples, plums, and several forms of citrus fruits, most of which have not been introduced before into this country.

Those concerned with ornamentals will be served by a rather small but unusual collection of seeds (Nos. 116983 to 116995) presented by Cheverton Buller, Stellenbosch, Union of South Africa. These represent native South African plants, mostly belonging to the Iridaceae and Proteaceae.

The botanical determinations of seeds introduced have been made and the nomenclature determined by Paul Russell, who has had general supervision of this inventory.

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*Principal Horticulturist, in Charge.*

DIVISION OF PLANT EXPLORATION AND INTRODUCTION,  
Washington, D. C., June 14, 1940.

# I N V E N T O R Y <sup>1</sup>

NOTE.—This inventory is a historical record of plant material introduced for Department and other specialists. It is not to be considered as a list of plant material for distribution.

## 116966 to 116978.

From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received July 6, 1936.

116966 and 116967. *ALTHAEA ROSEA* (L.) Cav. Malvaceae. Hollyhock.

116966. No. 205. From the Konya bazar, April 18, 1936.

116967. No. 123. From the Ankara bazar, April 15, 1936.

116968. *ANTIRRHINUM* sp. Scrophulariaceae. Snapdragon.

No. 200. From the Konya bazar, April 18, 1936.

116969. *CISTUS* sp. Cistaceae.

No. 460. Collected 25 km. northwest of Mersin, April 23, 1936.

116970. *CLEMATIS* sp. Ranunculaceae.

No. 324. From 70 km. northwest of Adana, April 24, 1936. A wild plant.

116971. *DELPHINIUM* sp. Ranunculaceae. Larkspur.

No. 206. From the Konya bazar, April 18, 1936.

116972 to 116978. *HELIANTHUS ANNUUS* L. Asteraceae. Common sunflower.

Nos. 116972 to 116974 were from the Ankara bazar, April 15, 1936.

116972. No. 119. *Katmerli*.

116973. No. 130. *Katmersiz*.

116974. No. 126.

## 116966 to 116978—Continued.

116975. No. 170. From Konya, April 18, 1936.

116976. No. 150. From Afyon, April 17, 1936.

116977. No. 237. From Tarsus, April 28, 1936.

116978. No. 458. From Kayseri, May 7, 1936.

116979. *NERINE FLEXUOSA* (Jacq.) Herb. Amaryllidaceae.

From the Union of South Africa. Seeds purchased from the Winton Nurseries, Bonnie Vale, Cape Province. Received July 31, 1936.

A South African bulbous perennial with four to six bright-green linear leaves a foot long and a scape 2 to 3 feet high, bearing an umbel of 10 to 20 pale-pink flowers an inch long.

116980. *MEDICAGO SATIVA* L. Fabaceae. Alfalfa.

From Chile. Seeds purchased from Raymond Du Belloy, Santiago. Received July 29, 1936.

Native-grown Chilean alfalfa.

116981. *DUCHESNEA INDICA* (Andrews) Focke. Rosaceae.

From Peru. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received July 14, 1936.

Collected May 21, 1936, at Huarás, Ancash, at 3,000 m. altitude.

<sup>1</sup> It should be understood that the names of varieties of fruits, vegetables, cereals, and other plants used in this inventory are those under which the material was received when introduced by the Division of Plant Exploration and Introduction, and, further, that the printing of such names here does not constitute their official publication and adoption in this country. As the different varieties are studied, their entrance into the American trade forecast, and the use of varietal names for them in American literature becomes necessary, the foreign varietal designations appearing in this inventory will be subject to change with a view to bringing the forms of the names into harmony with recognized horticultural nomenclature.

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

**116982. VACCINIUM ARCTOSTAPHYLOS L.**  
Vacciniaceae.

**Caucasian whortleberry.**

From the Union of Soviet Socialist Republics, Institute of Agriculture, Moscow, through Dr. G. L. Slate, New York Experiment Station, Geneva, N. Y. Received August 8, 1936.

A deciduous shrub up to 10 feet high, native to the Caucasus region. The oblong-ovate, finely toothed leaves are 2 to 4 inches long and turn purple red in the autumn. The small bell-shaped flowers are borne in racemes 2 inches long and are white with a purple tinge. The globose purple edible berries are nearly one-half inch in diameter.

For previous introduction see 101920.

**116983 to 116995.**

From the Union of South Africa. Seeds presented by Cheverton Buller, Stellenbosch, Cape Province. Received July 15, 1936.

A collection of plants native to southern Africa.

**116983 to 116985. GLADIOLUS spp.** Iridaceae.

**116983. GLADIOLUS ALATUS L.**

A gladiolus with flowers of a delightful fragrance not unlike that of the sweet briar. The three upper petals are bright orange scarlet and the three lower ones are yellowish tipped with orange scarlet. The bulbs are not larger than ordinary peas and cannot survive long out of the ground.

For previous introduction see 106736.

**116984. GLADIOLUS BLANDUS Ait.**

A species with sword-shaped leaves somewhat shorter than the stem, which is from 6 inches to 24 inches and bears 3 to 10 white or reddish-tinted scentless flowers, each over an inch long.

For previous introduction see 113567.

**116985. GLADIOLUS PSITTACINUS Hook.**  
Parrot gladiolus.

A gladiolus with a stout stem 3 feet or more in length and usually 4 rigid swordlike leaves up to 2 feet long. The many-flowered spike reaches a foot or more in length. The flowers are a rich yellow, grained and overlain with red, particularly about the margins of the segments.

For previous introduction see 110831.

**116986. MIMETES HIRTA (L.) Knight.** Proteaceae.

A very striking shrub 3 to 4 feet high, with leathery ovate-elliptic to oblanceolate leaves about 1 inch long and showy, bright-carmine bracts.

**116987. ORNITHOGALUM SAUNDERSIAE Baker.**  
Liliaceae. Star-of-Bethlehem.

A bulbous plant with lanceolate leaves up to a foot long and white or yellow flowers in a dense raceme on a scape a foot or more high.

For previous introduction see 115827.

**116988 to 116994. PROTEA spp.** Proteaceae.

**116983 to 116995—Continued.**

**116988. PROTEA BARBIGERA Meisb.**

An evergreen shrub up to 9 feet high with oblong-lanceolate leaves 3 to 7 inches long, sessile flower heads about 6 inches across, with conspicuously bearded involucre bracts, the whitish hairs about 2 inches long.

**116989. PROTEA COMPACTA R. Br.**

A shrub with strongly imbricated, ovate-lanceolate, coriaceous leaves 3 to 5 inches long and sessile flower heads 4 inches long and 2 inches broad. The outer bracts have a dense fringe of woolly hairs, the inner are flesh-colored to carmine, and the flowers are tawny to purplish tomentose with the stamens densely covered with long light-golden hairs.

For previous introduction see 102799.

**116990. PROTEA CYNAROIDES L.**

This is, perhaps, the finest of all the proteas and becomes 6 feet tall. The leaves vary from nearly orbicular to ovate, are 2 to 6 inches long, and have petioles from 2 to 5 inches long. The glabrous surfaces are prominently and reticulately veined on both sides. The sessile flower heads are 5 to 8 inches long and broad, and the ovate-lanceolate bracts in this form are clear pink and dove gray.

For previous introduction see 102800.

**116991. PROTEA GRANDIFLORA Thunb.**

A shrub or small tree 3 to 10 feet high, with oblong sessile shining leaves and large white flower heads which resemble a globe artichoke in appearance.

For previous introduction see 25847.

**116992 and 116993. PROTEA MELLIFERA Thunb.**  
Sugarbush.

A glabrous shrub or small tree with narrowly lanceolate and rather blunt leaves. The whitish flower head is cup-shaped, 4 inches long and 3 inches wide. The inner bracts are rather longer than the pistils and the outer ones are short and wide, all very viscid and usually rosy pink. During the time of flowering the involucre is filled with sweet watery liquor which is an allurement to bees and to a host of other insects.

For previous introduction see 26207.

**116992.** A form with white bracts.

**116993.** A form with rose-pink bracts.

**116994. PROTEA sp.**

A form with rose-pink, black-hairy bracts.

**116995. WATSONIA DENSIFLORA Baker.**  
Iridaceae. Buglelily.

Variety *alba*. A watsonia with stiff ensiform leaves up to 3 feet high and simple dense spikes about as tall with many pure-white flowers.

**116996 and 116997. ZEPHYRANTHES spp.**  
Amaryllidaceae.

From Mexico. Bulbs purchased from Dr. C. A. Purpus, Zacuapam, Huatusco, Veracruz. Received August 11, 1936.

**116996.** Collected at 900 m. altitude near Zacuapam.

## 116996 and 116997—Continued.

116997. Collected at 2,000 m. altitude, Salto de Agua.

## 116998. CHAMAELAUCIUM UNCINATUM Schauer. Myrtaceae.

From California. Plant presented by Eric Walther, Golden Gate Park, San Francisco. Received July 29, 1936.

An erect bushy heathlike shrub with opposite hook-shaped linear leaves less than an inch long and small terminal corymbs of cream-colored flowers. Native to Western Australia.

For previous introduction see 86710.

## 116999. ARISTOLOCHIA PAULISTANA Hoehne. Aristolochiaceae.

From Brazil. Seeds presented by the Biological Institute of São Paulo, through F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, Cuba. Received July 23, 1936.

A high-climbing tropical vine with triangular-cordate leaves, obtuse at the apex, 3 to 6 inches long. The flower, yellowish purple spotted with blackish purple, has an ovate lip that is narrowed into a linear limb up to 8 inches in length. Native to São Paulo, Brazil.

## 117000. SACCHARUM. Poaceae. Sugar cane.

From Trinidad, British West Indies. Cuttings presented by the Imperial College of Tropical Agriculture. Received July 3, 1936.

No. B. 2935.

## 117001 to 117004. ELAEAGNUS spp. Elaeagnaceae.

From the Union of Soviet Socialist Republics. Cuttings presented through Dr. I. M. Vavilov, Chief, Institute of Plant Industry, Leningrad. Received July 6, 1936.

117001. No. 24.

117002. No. 92. *Bepa*.

117003. No. 93. *Abahfapa*.

117004. No. 94.

## 117005 to 117012. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweet potato.

From Australia. Tubers presented by Dr. H. Wenzholz, Director of Plant Breeding, New South Wales Department of Agriculture, Sydney. Received July 9, 1936.

A collection of locally grown varieties from Hawkesbury Agricultural College.

117005. *Ashburn*.

117006. *Early Butter*.

117007. *Farmer's Special*.

117008. *H. H. C. Pink*.

117009. *Quaker*.

117010. *Rosella*.

117011. *White Maltese*.

117012. *Wannop*.

## 117013 to 117015. MEDICAGO SATIVA L. Fabaceae. Alfalfa.

From Turkey. Plants collected by H. L. Westover and F. L. Wolman, Bureau of Plant Industry. Received July 11, 1936.

117013. No. 891-A. Wild alfalfa collected in the hills near Gemlik, June 20, 1936.

117014. No. 892. Wild alfalfa collected 25 km. north of Bursa, June 20, 1936.

117015. No. 893. Wild alfalfa collected 10 km. south of Bursa on the slopes of Mount Olympus, June 19, 1936.

117016. PUCCINELLIA KENGIANA Ohwi. (*Puccinellia stricta* Keng). Poaceae. Grass.

From China. Seeds presented by Y. L. Keng, Academia Sinica, National Research Institute of Biology, Nanking. Received July 1, 1936.

From Luho Ku, Kiangsu Province, May 23, 1936. Seeds collected in wheatfields by Charles E. DeVol. A loosely tufted, erect or decumbent annual grass about 18 inches tall. Native to Kiangsu Province, China.

## 117017 and 117018. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Australia. Seeds presented by the American consulate, Melbourne, Victoria, through the Secretary of State, Washington, D. C. Received July 13, 1936.

Fair average quality Victorian wheat.

## 117019. OCHROMA BICOLORE Rowlee. Bombacaceae.

From Mexico. Seeds presented by Prof. M. Martínez, Mexico, D. F. Received July 1, 1936.

A tall tree, native to Costa Rica; one of the sources of the balsa wood of commerce.

## 117020 to 117040. NICOTIANA spp. Solanaceae. Tobacco.

From Peru. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received July 14, 1936.

Nos. 117020 to 117028 were collected in the Departamento Ancash.

## 117020 and 117021. NICOTIANA GLUTINOSA L.

117020. No. 142. May 25, 1936. From the Cañon del Pato, Rio Santa, between 1,500 and 1,800 m. altitude.

117021. No. 143. From Mayucayan at 1,400 m. altitude May 25, 1936.

## 117022 to 117039. NICOTIANA TABACUM L. Common tobacco.

Nos. 117022 and 117023 were collected at Huarás, May 21, 1936, at 3,025 m. altitude.

117022. No. 135. 117023. No. 136.

117024. No. 137. From Sacsacpampa, near Huarás, May 22, 1936, at 3,600 m. altitude.

117025. No. 138. From Huarás, May 22, 1936, at 3,025 m. altitude.

117026. No. 139. From Paria Huanca, May 24, 1936, at 2,800 m. altitude.

117020 to 117040—Continued.

117027. No. 140. From Macasca, May 23, 1936, at 3,300 m. altitude.

117028. No. 141. From Carhuaz, May 23, 1936, at 2,300 m. altitude.

Nos. 117029 to 117032 were collected in the Departamento Lambayeque, May 29 and 30, 1936.

117029. No. 144. From Motupe, at 150 m. altitude.

117030. No. 145. Syrian tobacco from Hacienda Cayalti, Saña, at 50 m. altitude.

117031. No. 146. *Monte Libano*. From the Hacienda Cayalti, Saña, at 50 m. altitude.

117032. No. 147. From Chiclayo, June 1, 1936. Seed of the 1932 Tumbes harvest.

Nos. 117033 and 117034 were collected in Bellavista, Provincia Jaen, Departamento Cajamarca, June 2, 1936, at 400 m. altitude.

117033. No. 148. 117034. No. 149.

117035. No. 150. From the Hacienda Pátapo, Chiclayo, Departamento Lambayeque, June 3, 1936, at 25 m. altitude.

Nos. 117036 to 117038 were collected in Tumbes, Departamento Piura, June 8, 1936, at 50 m. altitude.

117036. No. 151. From the Hacienda La Noria.

117037. No. 152. *Amarilla*. From the Estanco del Tabaco.

117038. No. 153. From the Sarumilla River.

117039. No. 154. From Colegio Seminario, Huarás, Departamento Ancash, May 23, 1936, at 3,025 m. altitude.

117040. *NICOTIANA UNDULATA* Ruiz and Pav.

No. 134. From Huarás, Departamento Ancash, May 21, 1936, at 3,025 m. altitude.

117041. *CRINUM* sp. Amaryllidaceae.

From Florida. Seeds presented by Wyndham Hayward, Winter Park. Received July 13, 1936.

Originally from Burma. A low growing plant; the white flowers have linear petals, very attractive and dainty; may be used as a pot plant.

117042. *ARISTEA* sp. Iridaceae.

From Florida. Seeds presented by Hamilton P. Traub, American Amaryllid Society, Orlando. Received July 8, 1936.

Originally from near St. Lucia Bay, Zululand. A variety with beautiful small blue flowers produced in wide sprays; an excellent bedding plant.

117043 to 117045.

From the Union of Soviet Socialist Republics. Seeds presented by Dr. A. Sementchenko, Director, North Caucasian Institute of Special and Technical Cultures, Krasnodar. Received July 13, 1936.

117043 and 117044. *ARACHIS HYPOGAEA* L. Fabaceae. Peanut.

117043. No. 3952. 117044. No. 3951.

117043 to 117045—Continued.

117045. *LALLEMANTIA IBERICA* (Bieb.) Fisch. and Mey. Menthaceae.

No. 3958. A blue-flowered, herbaceous perennial, native to semiarid regions in Asia Minor and Syria, whose seeds yield what is said to be a high-grade drying oil.

For previous introduction see 115193.

117046 to 117049.

From Cuba. Seeds presented by Robert M. Grey, Superintendent, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, through F. G. Walsingham. Received July 13, 1936.

117046. *ALBIZZIA SASSA* (Willd.) Macbride. Mimosaceae.

Presented by the Agricultural Research Station, Tanganyika Territory, Africa. A large handsome tree with attractive bipinnate foliage and numerous fasciated heads of white flowers with crimson-tipped stamens. Native to tropical Africa.

117047. *ALBIZZIA* sp. Mimosaceae.

Presented by the Agricultural Research Station, Tanganyika Territory, Africa.

117048. *CORDIA HOLSTII* Gurke. Boraginaceae.

Presented by A. Bircher, El Saif, Egypt. A catalpalike tree with broad leaves and very delicate lacelike white flowers. The tree is used for planting along avenues.

For previous introduction see 51551.

117049. *MARKHAMIA HILDEBRANDTII* (Baker) Sprague. Bignoniaceae.

Presented by A. Bircher, El Saif, Egypt. A shrub or small tree with pinnate leaves 6 to 10 inches long and showy yellow flowers about 1½ inches long, in terminal and axillary panicles. Native to eastern tropical Africa.

117050 to 117081.

From Japan. Seeds presented by Dr. T. Nakai, Director, Botanic Garden of the University of Tokyo. Received July 1, 1936.

117050 to 117054. *BETULA* spp. Betulaceae. Birch.

117050. *BETULA ERMANI COMMUNIS* Koidz.

A variety differing from the type by its broad ovate leaves. Native to Japan.

117051. *BETULA ERMANI GANJUENSIS* (Koidz.) Nakai.

A variety differing from the type by its longer cones. Native to Japan.

117052. *BETULA SCHMIDTII* Regel.

A Japanese tree 65 feet high, with a trunk 3 to 7 feet in diameter, and black bark which falls off in thick, rather small plates. The finely-serrate leaves are short-stemmed, and the catkins are narrow, stiff, and erect.

For previous introduction see 76052.

117053. *BETULA MANDSHURICA JAPONICA* (Miq.) Rehd.

A hardy ornamental birch native to Japan, up to 75 feet high with broadly oval leaves.

For previous introduction see 82066.

## 117050 to 117081—Continued.

117054. *BETULA ULMIFOLIA* Sieb. and Zucc.

A large handsome tree up to 50 feet high, with yellowish-brown bark, ovate, irregularly doubly serrate, long-acuminate leaves 2 to 3½ inches long. Native to Japan and Manchuria.

For previous introduction see 104908.

117055. *HOMOIOCELTIS ASPERA* (Thunb.) Blume. Ulmaceae.

An ornamental deciduous tree up to 60 feet high, with slender branches forming a dense head. The leaves are serrate ovate to ovate-oblong, broadly wedge-shaped at the base, long acuminate, and 3 to 3½ inches long. This tree is easily distinguished from *Celtis sinensis*, with which it is often confused, by the leaves with straight veins ending in the teeth. The small black drupes are inconspicuous. Native to Japan.

For previous introduction see 41391.

117056 to 117058. *HOSTA* spp. Liliaceae.

117056. *HOSTA GLAUCA* (Miq.) Stearn.  
A perennial herb, native to Japan, with very glaucous cordate leaves 10 to 15 inches long. The slender pale-lilac, drooping flowers are borne on short stalks usually shorter than the leaves.

For previous introduction see 98325.

117057. *HOSTA JAPONICA TARDIFLORA* (Leichtlin) Bailey.

A form of the narrow-leaved plantainlily with dark-green, long-pointed leaves on short, margined petioles and light-purple flowers appearing in autumn in branched racemes sometimes bearing as many as 50 flowers.

For previous introduction see 101781.

117058. *HOSTA VENTRICOSA* (Salisb.) Stearn.

A plantainlily with broad cordate-ovate leaf blades about 10 inches long and lavender-purple flowers about 2 inches long in elongated racemes on scapes up to 3 feet tall. Native to China.

117059. *CELTIS SINENSIS* Pers. Ulmaceae. Chinese hackberry.

A tree, native to China and Japan, which grows to a height of 60 feet. The broadly ovate leaves, 2 to 4 inches long, are cordate at the base and acuminate at the apex, with serrate-dentate margins. The solitary dull orange-red fruits are borne on stalks about as long as the petioles.

For previous introduction see 92047.

117060. *ILEX GENICULATA* Maxim. Aquifoliaceae. Holly.

A slender-branched ornamental Japanese shrub, with deciduous ovate leaves which turn yellow in autumn, and bright red berries on slender pendulous stalks.

For previous introduction see 71165.

117061 to 117065. *IRIS* spp. Iridaceae.117061 and 117062. *IRIS KAEMPFERI* Sieb. Japanese iris.

For previous introduction see 81669.

## 117050 to 117081—Continued.

117063. *IRIS LAEVIGATA* Fisch. Rabbit-ear iris.

For previous introduction see 114509.

117064. *IRIS SIBIRICA SANGUINEA* (Donn) Ker.

Received as *Iris nertohinskia*.

117065. *IRIS SETOSA* Pall. Arctic iris.

For previous introduction see 106559.

117066 to 117076. *RHODODENDRON* spp. Ericaceae.117066. *RHODODENDRON ALBRECHTII* Maxim.

A shrub 3 to 5 feet high with obovate to oblanceolate membranous leaves which turn yellow in autumn. The rotate-campanulate, red-purple flowers, 2 inches across, in clusters of three to five, appear with the leaves. It is somewhat like *Rhododendron schlappenbachii* and is native to Japan.

For previous introduction see 114671.

117067. *RHODODENDRON DEGRONIANUM* Carr.

A native Japanese species, differing from *Rhododendron metternichii* in having a five-lobed corolla. *R. metternichii* is an evergreen shrub up to 4 feet high with oblong leaves 3 to 6 inches long, covered with rusty tomentum beneath. The campanulate, rose-colored, usually seven-lobed flowers are 1 to 2 inches across, spotted with purple and borne in clusters of 8 to 15.

For previous introduction see 98136.

117068. *RHODODENDRON FAURIAE* Franch.

A shrub 5 to 10 feet high, native to Japan, the branchlets clothed with thin loose white floccose tomentum. The oblong-elliptic to obovate leaves are 3 to 6 inches long, and the funnel-campanulate flowers, 1 inch long, borne in racemes of 12 to 15, are white or cream with a pink flush on the median lines of the petals and spotted inside with numerous green spots.

For previous introduction see 101228.

117069. *RHODODENDRON PENTAPHYLLUM* Maxim. Fiveleaf azalea.

A deciduous shrub up to 25 feet high, with, usually, five elliptic-lanceolate leaves at the ends of the branches. The rose-pink flowers, 1 to 2 inches across, are solitary or in twos, appearing before or with the leaves, which turn orange or crimson in the autumn. Native to Japan.

For previous introduction see 101961.

117070. *RHODODENDRON PULCHRUM* Sweet.

A handsome shrub with spreading hairy branches, elliptic leaves densely hairy beneath, and two or three terminal rosy-purple flowers 2 inches or more across. A hybrid between *Rhododendron ledifolium* and *R. indicum*.

For previous introduction see 78541.

117071. *RHODODENDRON QUINQUEFOLIUM* Biss. and Moore. Cork azalea.

A deciduous shrub or small tree up to 25 feet high, with broad-elliptic to

117050 to 117081—Continued.

ovate leaves about 2 inches long and white, green-spotted campanulate flowers about 2 inches across. Native to Japan.

For previous introduction see 114674.

117072. RHODODENDRON SEMIBARBATUM Maxim.

A deciduous shrub 2 to 10 feet high, with oval to ovate lanceolate leaves up to 2 inches long and solitary red-spotted white flowers about 1 inch across. It is related to *Rhododendron albiflorum* and is native to Japan.

117073. RHODODENDRON WEYRICHII Maxim.

A deciduous shrub up to 15 feet high, native to Japan and China. The broadly ovate to rhombic leaves, 1 to 3 inches long, are in clusters of 2 or 3 at the tips of the branchlets and turn vinous purple in autumn. The rotate-funneliform red flowers, 1 to 3 inches across, appear before or with the leaves.

For previous introduction see 102741.

117074. RHODODENDRON SUBLANCEOLATUM Miq.

An azalea, allied to *Rhododendron poukhanense*, with narrow elliptic to oblanceolate leaves up to 2 inches long and funneliform, rosy-red to crimson flowers about 3 inches across. Native to Japan.

117075. RHODODENDRON TSCHONOSKII Maxim.

A forest shrub, native to Japan, with flaky bark, elliptic leaves one-third of an inch long, and heads of one to four small white flowers.

For previous introduction see 114675.

117076. RHODODENDRON RETICULATUM D. Don.

A much-branched deciduous Japanese shrub up to 25 feet high, with yellow-brown branchlets and reticulate, broadly ovate leaves 2 to 3 inches long, in clusters of two to three. The slightly two-lipped rotate campanulate flowers are rosy purple to magenta and appear before the leaves. There are two forms, the ordinary form with 10 stamens, the so-called *Rhododendron rhombicum*, and a form with 5 stamens, the so-called *R. dilatatum*.

For previous introduction see 97401.

117077. ROMULEA PARLATORII Todaro. Iridaceae.

A crocuslike plant with narrow leaves and few small bright-lilac flowers. Allied to *Romulea ramiflora*. Native to the Mediterranean region.

117078. ROSA UCHIYAMANA Makino. Rosaceae.

A densely branched shrub about 6 feet high, with four to six leaflets and short few-flowered corymbose clusters of pink flowers about 2 inches across. It is related to *Rosa multiflora*. Native to Japan.

117079. STEWARTIA PSEUDO-CAMELLIA Maxim. Theaceae. Japanese stewartia.

A handsome tree, native to Japan, 50 feet high, with erect branches and red

117050 to 117081—Continued.

bark. The thickish obovate-lanceolate leaves are bright green, and the large white flowers are borne in summer.

For previous introduction see 102262.

117080. STYRAX SHIRAIANA Makino. Sty-racaceae.

A small tree with coarsely dentate, orbicular-ovate to rhombic-orbicular leaves 2 to 3 inches long and showy white tubular flowers about two-thirds of an inch long in small crowded racemes. Native to Japan.

117081. ULMUS PARVIFOLIA Jacq. Ulma-ceae. Leatherleaf elm.

Received as *Ulmus sieboldii*, which is now referred to *U. parvifolia*.

117082 to 117084.

From Australia. Plants presented by George W. Althofer, "Nindethana," Dripstone, New South Wales. Received July 20, 1936.

117082. AMYGDALUS PERSICA L. Amygda-laceae. Peach.

Glen Ora.

117083 and 117084. MALUS SYLVESTRIS Mill. Malaceae. Apple.

117083. Statesman. 117084. Warrior.

117085 to 117094. PISTACIA VERA L. Anacardiaceae. Pistachio.

From the Union of Soviet Socialist Republics. Seeds presented by Miss Vera Gorbunova, Institute of Plant Industry, Leningrad. Received July 17, 1936.

Seeds collected in gardens of the Apsheron Peninsula, Caucasus region, by Miss Vera Gorbunova.

117085. No. 24. 117090. No. 167.

117086. No. 132. 117091. No. 171.

117087. No. 133. 117092. No. 177.

117088. No. 146. 117093. No. 186.

117089. No. 165. 117094. No. 188.

117095 to 117297.

From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received July 2, 1936.

117095 to 117097. ABELMOSCHUS ESCULENTUS (L.) Moench. Malvaceae. Okra.

117095. No. 551. *Bamyas*. From the Eskisehir bazar, April 16, 1936.

117096. No. 120. *Bamyas*. From the Ankara bazar, April 15, 1936.

117097. No. 210. From Adana, April 20, 1936.

117098 to 117108. ALLIUM spp. Liliaceae.

117098 to 117103. ALLIUM CEPA L. Onion.

117098. No. 163. *Sogans*. From Afyon, April 17, 1936.

117099. No. 274. From Gaziantep, April 30, 1936. A red onion.

117100. No. 272. From Gaziantep, April 30, 1936. A white onion.

## 117095 to 117297—Continued.

117101. No. 293. From Kayseri, May 6, 1936.
117102. No. 96. From the Ankara bazar, April 15, 1936.
117103. No. 181. From Konya, April 18, 1936.
- 117104 and 117105. *ALLIUM PORRUM* L. Leek.
117104. No. 540. *Pirasa*. From the Eskisehir bazar, April 16, 1936.
117105. No. 111. *Pirasa*. From the Ankara bazar, April 15, 1936.
- Nos. 117106 to 117108 were collected near Gaziantep, May 2, 1936.
117106. *ALLIUM* sp.  
No. 465-A.
117107. *ALLIUM* sp.  
No. 480-A.
117108. *ALLIUM* sp.  
No. 487-A.
- 117109 to 117112. *APIUM GRAVEOLENS* L. Apiaceae. Celery.
- Nos. 117109 and 117110 were from the Ankara bazar, April 15, 1936.
117109. No. 87. 117110. No. 131.
117111. No. 239. From Tarsus, April 26, 1936.
117112. No. 267. From Gaziantep, April 20, 1936.
- 117113 to 117117. *BETA VULGARIS* L. Chenopodiaceae. Common beet.
117113. No. 189. From Konya, April 18, 1936. Red beets.
117114. No. 247. From Tarsus, April 26, 1936.
117115. No. 281. From Gaziantep bazar, April 30, 1936.
- 117116 and 117117. From Kayseri bazar, May 6, 1936.
117116. No. 296. 117117. No. 299.
- 117118 to 117126. *BRASSICA* spp. Brassicaceae.
- 117118 and 117119. *BRASSICA OLERACEA* CAPITATA L. Cabbage.
117118. No. 255. From Gaziantep, April 30, 1936.
117119. No. 98. *Lahma*. From the Ankara bazar, May 15, 1936.
- 117120 to 117126. *BRASSICA RAPA* L. Turnip.
117120. No. 164. From Afyon, April 17, 1936. A red turnip.
- 117121 to 117123. From Konya, April 18, 1936.
117121. No. 166.
117122. No. 173.
117123. No. 182. A red turnip.
117124. No. 208. From the Adana bazar, April 20, 1936.

## 117095 to 117297—Continued.

117125. No. 292. From Kayseri, May 6, 1936.
117126. No. 148. From Afyon, April 17, 1936.
- 117127 to 117142. *CAPSICUM ANNUUM* L. Solanaceae. Common redpepper.
- 117127 and 117128. From the Ankara bazar, April 15, 1936.
117127. No. 97. A large pepper.
117128. No. 121. A long pepper.
- 117129 and 117130. From Afyon, April 17, 1936.
117129. No. 146. A long green pepper.
117130. No. 149. A large pepper.
- 117131 and 117132. From Konya, April 18, 1936.
117131. No. 178. A large pepper.
117132. No. 187. A long pepper.
- 117133 and 117134. From the Adana bazar, April 20, 1936.
117133. No. 211. A white pepper.
117134. No. 218. Mixed sample.
117135. No. 240. From the Tarsus bazar, April 26, 1936.
- 117136 and 117137. From Gaziantep, April 30, 1936.
117136. No. 275.
117137. No. 290. A large pepper.
- 117138 and 117139. From Kayseri, May 6, 1936.
117138. No. 294. A large red pepper.
117139. No. 310. A small pencil pepper.
117140. No. 392. From Afyon, April 17, 1936.
- 117141 and 117142. From the Eskisehir bazar, April 16, 1936.
117141. No. 526. *Tursuluk biber*.
117142. No. 536. *Dolmalik biber*.
117143. *CICER ARIETINUM* L. Fabaceae. Chickpea.
- No. 550. From the Eskisehir bazar, April 16, 1936.
- 117144 to 117156. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.
- 117144 to 117146. From the Ankara bazar, April 15, 1936.
117144. No. 102. A melon with black seeds.
117145. No. 105. A melon with white seeds.
117146. No. 135. *Kayuz*.
- 117147 to 117149. From Afyon, April 17, 1936.
117147. No. 143. A white watermelon.
117148. No. 151. A melon stored for winter use.
117149. No. 152. A melon with black seeds.



117095 to 117297—Continued.

- 117150 and 117151. From Konya, April 18, 1936.  
 117150. No. 183.  
 117151. No. 193. A melon with white seeds.  
 117152. No. 2223. From the Adana bazar, April 20, 1936.  
 117153. No. 246. From Tarsus, April 26, 1936.  
 117154. No. 271. From Gaziantep, April 30, 1936.  
 117155. No. 188. From Konya, April 18, 1936.  
 117156. No. 527. *Karpus*. From the Eskisehir bazar, April 16, 1936.  
 117157 to 117185. CUCUMIS spp. Cucurbitaceae.  
 117157 to 117168. CUCUMIS MELO L. Muskmelon.  
 117157. No. 547. From the Eskisehir bazar, May 16, 1936.  
 117158. No. 124. From Ankara bazar, May 15, 1936.  
 117159 and 117160. From Afyon, April 17, 1936.  
 117159. No. 147. *Kirkagaç* or *kaoun*.  
 117160. No. 154. *Siyah kabuklu hasan bey kaoun*.  
 117161. No. 172. *Karun*. From Konya, April 18, 1936.  
 117162. No. 209. A sweet melon from Adana, April 20, 1936.  
 117163 and 117164. From Tarsus, April 26, 1936.  
 117163. No. 243. 117164. No. 249.  
 117165 to 117167. From Gaziantep, April 30, 1936.  
 117165. No. 254. *Kilis*.  
 117166. No. 259. *Aci kaoun*.  
 117167. No. 279. *Bal kaoun*.  
 117168. No. 517. From the Eskisehir bazar, April 16, 1936.  
 117169 to 117185. CUCUMIS SATIVUS L. Cucumber.  
 117169. No. 85. From the Ankara bazar, April 15, 1936.  
 117170. No. 171. From Konya, April 18, 1936. A long cucumber.  
 117171. No. 144. *Hiyar*. From Afyon, April 17, 1936.  
 117172 and 117173. From Konya, April 18, 1936.  
 117172. No. 177. A long cucumber.  
 117173. No. 195. A short cucumber.  
 117174 to 117176. From the Adana bazar, April 20, 1936.  
 117174. No. 212.  
 117175. No. 220. A long cucumber.  
 117176. No. 224.  
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117095 to 117297—Continued.

- 117177 to 117179. From Tarsus, April 26, 1936.  
 117177. No. 230.  
 117178. No. 231. Seed imported from Arabia.  
 117179. No. 233. Seed imported from Arabia.  
 117180 to 117183. From Gaziantep, April 30, 1936.  
 117180. No. 260. A cucumber used with a meat dressing.  
 117181. No. 264. A green cucumber.  
 117182. No. 268. A white cucumber.  
 117183. No. 306. From the Kayseri bazar, May 6, 1936.  
 117184. No. 535. From the Eskisehir bazar, May 16, 1936.  
 117185. No. 280. From Gaziantep, April 30, 1936.  
 117186 to 117199. CUCURBITA spp. Cucurbitaceae.  
 117186 to 117189. CUCURBITA MAXIMA Duchesne. Squash.  
 117186. No. 107. *Bal kaleak*. From the Ankara bazar, April 15, 1936.  
 117187. No. 156. From Afyon, April 17, 1936.  
 117188. No. 229. From Tarsus, April 26, 1936.  
 117189. No. 539. *Bal kabagi*. From Eskisehir, April 16, 1936.  
 117190. CUCURBITA MOSCHATA Duchesne. Cushaw.  
 No. 261. From Gaziantep. A winter squash.  
 117191 to 117199. CUCURBITA PEPO L. Pumpkin.  
 117191. No. 125. *Dalmo kaleak*. From the Ankara bazar, April 15, 1936.  
 117192. No. 142. From Afyon, April 17, 1936. A large pumpkin.  
 117193. No. 219. From the Adana bazar, April 20, 1936.  
 117194. No. 235. From the Tarsus bazar, April 26, 1936.  
 117195 and 117196. From Gaziantep, April 30, 1936.  
 117195. No. 270.  
 117196. No. 284. *Koseseser*.  
 117197 and 117198. From Kayseri, May 6, 1936.  
 117197. No. 309. 117198. No. 311.  
 117199. No. 533. *Sakiz kabagi*. From the Eskisehir bazar, April 16, 1936.  
 117200 to 117204. DAUCUS CAROTA L. Apiaceae. Carrot.  
 117200. No. 115. From the Ankara bazar, April 15, 1936.

## 117095 to 117297—Continued.

117201. No. 300. From the Kayseri bazar, May 5, 1936.
117202. No. 180. From Konya, April 18, 1936.
117203. No. 207. From the Adana bazar, April 20, 1936.
117204. No. 538. *Havuç*. From the Eskisehir bazar, May 16, 1936.
- 117205 and 117206. FRAGARIA spp. **Rose-strawberry.**  
Obtained in a restaurant in Mersin, April 27, 1936.
117205. FRAGARIA sp.  
No. 413. A strawberry with pink flesh.
117206. FRAGARIA sp.  
No. 416. A long red strawberry.
117207. IPOMOEA sp. Convolvulaceae.  
No. 134. From the Ankara bazar, April 15, 1936.
- 117208 to 117216. LACTUCA SATIVA L. **Garden lettuce.**  
Cichoriaceae.
- 117208 to 117210. From the Ankara bazar, April 15, 1936.
117208. No. 90.
117209. No. 100.
117210. No. 112. A curly lettuce.
117211. No. 179. From Konya, April 18, 1936.
117212. No. 226. From the Adana bazar, April 20, 1936.
117213. No. 242. From Tarsus, April 26, 1936.
- 117214 and 117215. From the Eskisehir bazar, April 16, 1936.
117214. No. 521. *Salatalik marul*.
117215. No. 531. *Marul*.
117216. No. 308. From Kayseri, May 6, 1936.
- 117217 and 117218. LAGENARIA LEUCANTHA (Duchesne) Rusby. Cucurbitaceae. **Calabash gourd.**
117217. No. 278. From Gaziantep, April 30, 1936. A dry-land squash.
117218. No. 518. *Bukabagi*. From Eskisehir, April 16, 1936.
- 117219 to 117221. LENS ESCULENTA Moench. **Lentil.**  
Fabaceae.
117219. No. 266. From Gaziantep, April 30, 1936.
117220. No. 253. From Gaziantep, April 30, 1936.
117221. No. 529. *Marcimek*. From Eskisehir, April 16, 1936.
- 117222 to 117223. LYCOPERSICON ESCULENTUM Mill. **Tomato.**  
Solanaceae.
117222. No. 110. From the Ankara bazar, April 15, 1936. A red tomato.
117223. No. 128. From the Ankara bazar, April 15, 1936.
117224. No. 140. From Afyon, April 17, 1936.

## 117095 to 117297—Continued.

117225. No. 245. From Tarsus, April 26, 1936.
117226. No. 190. From Konya, April 18, 1936.
117227. No. 289. From Gaziantep, April 30, 1936.
117228. No. 295. From Kayseri, June 6, 1936.
117229. PASTINACA SATIVA L. **Apiaceae.**  
**Farsnip.**  
No. 157. *Maydarroz*. From Afyon, April 17, 1936.
- 117230 to 117258. PHASEOLUS spp. **Faba-ceae.**
- 117230 and 117231. PHASEOLUS COCCINEUS L. **Scarlet runner bean.**  
*Tezyinatla kullanilan fasulya*. From the Eskisehir bazar, April 16, 1936.
117230. No. 546. 117231. No. 546-A.
- 117232 to 117258. PHASEOLUS VULGARIS L. **Common bean.**
- 117232 to 117238. From the Eskisehir bazar, April 16, 1936.
117232. No. 522. *Yildiz fasulyasi*.
117233. No. 528. *Sari bodur fasulya*.
117234. No. 537. *Aise kadidin fasulyasi*.
117235. No. 542. *Bardunya fasulya*.
117236. No. 543. *Serit fasulyasi*.
117237. No. 544. *Sari kilciksiz uzun fasulya*.
117238. No. 552. *Beyaz fasulya*.
- 117239 to 117244. From Gaziantep, April 30, 1936.
117239. No. 251. *Ayslkadin*.
117240. No. 251-A. *Ayslkadin*.
117241. No. 251-B. French beans.
117242. No. 251-C. White beans.
117243. No. 251-D. Bush beans.
117244. No. 251-E. *Waan*.
117245. No. 291. From Kayseri, May 6, 1936.
- 117246 to 117248. From the Ankara bazar, April 15, 1936.
117246. No. 94.
117247. No. 104.
117248. No. 106. White beans.
- 117249 to 117254. From Afyon, April 17, 1936.
117249. No. 138. *Fasulya*.
117250. No. 138-A.
117251. No. 138-B.
117252. No. 138-C.
117253. No. 138-D.
117254. No. 155. *Fasulya*. Dwarf beans.
117255. No. 185. From Konya, April 18, 1936.

117095 to 117297—Continued.

117256. No. 216. From the Adana bazar, April 20, 1936.
117257. No. 217. From the Adana bazar, April 20, 1936.
117258. No. 132. From the Ankara bazar, April 15, 1936.
- 117259 to 117261. *PISUM ELATIUS* Bieb. Fabaceae. **Pea.**
117259. No. 321. From Adana, April 20, 1936.
117260. No. 385. From the Cotton Experiment Station, Adana, April 28, 1936. A form with yellow flowers.
117261. No. 394. Collected along the road from Mersin to Selefke, April 26, 1936.
- 117262 to 117268. *PISUM SATIVUM* L. Fabaceae. **Pea.**
117262. No. 320. From Adana, April 20, 1936.
117263. No. 325. From a garden 5 km. north of Adana, April 21, 1936.
117264. No. 215. From the Adana bazar, April 20, 1936.
117265. No. 174. From Konya, April 18, 1936.
117266. No. 244. From Tarsus, April 26, 1936.
117267. No. 391. *Konya* pea. From the Cotton Experiment Station, Adana, April 28, 1936.
117268. No. 459. From the market at Kayseri, May 7, 1936.
117269. *APIUM GRAVEOLENS* L. Apiaceae. **Celery.**
- No. 222. From the Adana bazar, April 20, 1936.
- 117270 to 117278. *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**
- 117270 and 117271. From the Ankara bazar, April 15, 1936.
117270. No. 101. A black radish.
117271. No. 133. A red radish.
117272. No. 141. From Afyon, April 17, 1936.
117273. No. 241. From Tarsus, April 26, 1936.
- 117274 and 117275. From Gaziantep, April 30, 1936.
117274. No. 276. 117275. No. 285.
- 117276 and 117277. From the Eskisehir bazar, April 16, 1936.
117276. No. 524. *Kirmizi turp.*
117277. No. 532. *Turp.*
117278. No. 359. Collected south of Adana, April 21, 1936. A wild radish with yellow flowers.
117279. *SISYMBRIUM IRIO* L. Brassicaceae.
- No. 393. From Tarsus, April 25, 1936. Wild mustard, a biennial, native to the Mediterranean region.

117095 to 117297—Continued.

- 117280 to 117283. *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**
- 117280 and 117281. From the Ankara bazar, April 15, 1936.
117280. No. 114. *Pathican Küçük.*
117281. No. 116. *Pathican Birjuk.* A large eggplant.
- 117282 and 117283. From Kayseri, May 6, 1936.
117282. No. 303. A short white and red eggplant.
117283. No. 307. A purple eggplant.
- 117284 to 117295. *SPINACIA OLERACEA* L. Chenopodiaceae. **Common spinach.**
- 117284 and 117285. From the Ankara bazar, April 15, 1936.
117284. No. 89. 117285. No. 127.
117286. No. 158. *Ispanak.* From Afyon, April 17, 1936.
117287. No. 186. From Konya, April 18, 1936.
117288. No. 227. From the Adana bazar, April 20, 1936.
- 117289 and 117290. From the Tarsus bazar, April 26, 1936.
117289. No. 234. 117290. No. 236.
- 117291 and 117292. From Gaziantep, April 30, 1936.
117291. No. 262. 117292. No. 283.
117293. No. 332. From Adana, April 19, 1936.
117294. No. 360. From Adana, April 28, 1936. Probably escaped from cultivation.
117295. No. 519. *Ispanak.* From the Eskisehir bazar, April 16, 1936.
117296. *VICIA FABA* L. Fabaceae. **Broadbean.**
- No. 541. *Adi bakla.* From the Eskisehir bazar, April 16, 1936.
117297. *ARRHENATHERUM ELATIUS* BULBOSUM (Willd.) Spenner. **Grass.**
- No. 467. From Gaziantep, May 2, 1936. A bulbous grass.
- For previous introduction see 22666.
- 117298 to 117318. *NICOTIANA TABACUM* L. Solanaceae. **Common tobacco.**
- From Venezuela and Peru. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received August 4, 1936.
- Unless otherwise stated, all of this material was collected in Venezuela.
- Nos. 117298 to 117301 were collected at El Hatillo, Miranda, at 1,000 m. altitude, July 14, 1936. Mixed samples.
117298. No. 155. *Cola de Gallo; pinar del Rio; pata pelona.*
117299. No. 156. *Cola de Gallo; pinar del Rio.*
117300. No. 157. *Cola de Gallo; pinar del Rio.*
117301. No. 158. *Cola de Gallo; pata pelona.*
- Nos. 117302 to 117305 were collected at Ocumare del Tuy, Miranda, at 1,000 m. altitude, July 15, 1936.

## 117298 to 117318—Continued.

117302. No. 159. Seed originally from Altagracia.
117303. No. 160.
117304. No. 161. *Cola de Gallo*.
117305. No. 162. *Enano*.
117306. No. 163. From Yare, Miranda, July 16, 1936.
117307. No. 164. *Pailón*. From Ocumare del Tuy, Miranda, July 16, 1936.
- Nos. 117308 to 117314 were collected at El Consejo, Aragua, July 17, 1936.
117308. No. 165. Mixed seeds.
117309. No. 166. Mixed seeds.
117310. No. 167. Mixed seeds.
117311. No. 168. *Aparecido*.
117312. No. 169. *Virginia*, imported seed.
117313. No. 170. *Aparecido*.
117314. No. 171. *Aparecido*.
117315. No. 172. From El Hatillo, Miranda.
117316. No. 173. From El Consejo, Aragua. Mixed seeds.
- Nos. 117317 and 117318 were collected at Eten, Peru.
117317. No. 174. *Cacerío de Songoy*.
117318. No. 175. *Cacerío de Cojal*.

## 117319 to 117438.

- From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received July 10, 1936.
117319. *ALOPECURUS MYOSUROIDES* Huds. Grass. Poaceae.
- No. 386. From the Cotton Experiment Station, Adana, April 28, 1936. A tufted perennial grass native to Europe.
117320. *ANTIRRHINUM MAJUS* L. Scrophulariaceae. Common snapdragon.
- No. 534. *Aralan agzi*. From the Eskisehir bazar, April 16, 1936.
- For previous introduction see 104949.
117321. *ARRHENATHERUM ERIANTHUM* Boiss. and Reut. Poaceae. Grass.
- No. 454. From Gaziantep, May 2, 1936.
117322. *ASTRAGALUS* sp. Fabaceae.
- No. 346. Collected 6 miles north of Adana, April 21, 1936.
117323. *ASTRAGALUS* sp. Fabaceae.
- No. 356. From Adana, April 20, 1936.
- 117324 to 117326. *BETA VULGARIS* L. Chenopodiaceae. Common beet.
117324. No. 167. From Konya, April 18, 1936. Sugar beet.
117325. No. 145. From Afyon, April 17, 1936. Sugar beet.
117326. No. 103. From the Ankara bazar, April 15, 1936. Sugar beet.
117327. *CANAVALIA GLADIATA* (Jacq.) DC. Fabaceae. Swordbean.
- No. 214. From the Adana bazar, April 20, 1936.

## 117319 to 117438—Continued.

117328. *CANNABIS SATIVA* L. Moraceae. Hemp.
- No. 95. *Keudye*. From the Ankara bazar, April 15, 1936.
117329. *CICER ARIETINUM* L. Fabaceae. Chickpea.
- No. 277. From Gaziantep, April 30, 1936.
117330. *CORONILLA* sp. Fabaceae.
- No. 341. From Adana, April 22, 1936.
117331. *CORONILLA* sp. Fabaceae.
- No. 406. Collected 35 km. west of Mersin, April 26, 1936.
117332. *CORONILLA* sp. Fabaceae.
- No. 399. Collected 40 km. west of Mersin, April 26, 1936.
117333. *CORONILLA* sp. Fabaceae.
- No. 350-A. From Adana, April 20, 1936. A mixed sample.
117334. *CROTALARIA* sp. Fabaceae.
- No. 314. From Adana, April 20, 1936.
117335. *CROTALARIA* sp. Fabaceae.
- No. 362. From Adana, April 20, 1936.
117336. *FOENICULUM VULGARE* Hill. Apiaceae. Fennel.
- No. 113. From the Ankara bazar, April 15, 1936.
117337. *HIPPOCREPIS* sp. Fabaceae.
- No. 343. From Adana, April 20, 1936.
117338. *HIPPOCREPIS* sp. Fabaceae.
- No. 426. From 40 km. east of Gaziantep, May 3, 1936.
117339. *KOELERIA PHLEOIDES* (Vill.) Pers. Poaceae.
- No. 403. From 25 km. west of Mersin, April 26, 1936.
- For previous introduction see 107065.
- 117340 to 117349. *HORDEUM* spp. Poaceae.
117340. *HORDEUM BULBOSUM* L.
- No. 323. Collected 6 miles north of Adana, April 21, 1936.
- For previous introduction see 109503.
- 117341 to 117349. *HORDEUM VULGARE* L. Barley.
- 117341 and 117342. From Gaziantep, April 30, 1936.
117341. No. 286.
117342. No. 258. Black winter barley.
- 117343 to 117345. From Konya, April 18, 1936.
117343. No. 165. Black barley.
117344. No. 194. A mixed sample.
117345. No. 184. White barley.
117346. No. 305. From the Kayseri bazar, May 6, 1936.
- 117347 and 117348. From Konya, April 18, 1936.
- No. 176. A mixed sample.
- No. 192. Black barley.
117349. No. 160. From Afyon, April 17, 1936.

117319 to 117438—Continued.

117350. *LAGURUS OVATUS* L. Poaceae.  
Rabbittail grass.  
No. 407. Collected 40 km. west of Mersin, April 26, 1936.
117351. *VICIA ERVILIA* (L.) Willd. Fabaceae.  
Vetch.  
No. 257. *Kushne*. From Gaziantep, April 30, 1936. Used as stock feed.
117352. *LATHYRUS GORGONI* Parl. Fabaceae.  
No. 287. From the Gaziantep bazar, April 30, 1936. Used as stock feed.
- 117353 and 117354. *LATHYRUS ANNUUS* Hoerj. Fabaceae. Pea.  
117353. No. 358. From Adana, April 21, 1936. A form with orange-brown flowers.  
117354. No. 414. From Mersin, April 27, 1936.
117355. *LINUM USITATISSIMUM* L. Linaceae. Flax.  
No. 161. From Afyon, April 17, 1936. Flax grown for oil.
117356. *LOTUS* sp. Fabaceae.  
No. 366. From Misis, April 22, 1936.
117357. *LOTUS* sp. Fabaceae.  
No. 425. Collected 40 km. east of Gaziantep, May 3, 1936.
117358. *LOTUS* sp. Fabaceae.  
No. 412. Collected 13 km. northwest of Mersin, April 27, 1936.
117359. *LUFFA CYLINDRICA* (L.) Roemer. Cucurbitaceae. Suakwa towelgourd.  
No. 225. From Adana, April 20, 1936.
- 117360 to 117375. *MEDICAGO* spp. Fabaceae. Medick.  
117360. *MEDICAGO ARABICA* (L.) All.  
No. 329. From Adana, April 21, 1936.
117361. *MEDICAGO HISPIDA* Gaertn.  
No. 315. Bur clover from Adana, April 20, 1936.
- 117362 to 117369. *MEDICAGO SATIVA* L. Alfalfa.  
117362. No. 256. From Gaziantep, April 30, 1936.
- 117363 to 117366. From Kayseri, May 6, 1936.  
117363. No. 297.  
117364. No. 301.  
117365. No. 304.  
117366. No. 302.
- 117367 and 117368. From Konya, April 18, 1936.  
117367. No. 192-A.  
117368. No. 169.
117369. No. 137. *Yanca*. From Afyon, April 17, 1936.
117370. *MEDICAGO SCUTELLATA* (L.) Mill. Snail medick.  
No. 384. From Adana, April 20, 1936.

For previous introduction see 90027.

117319 to 117438—Continued.

117371. *MEDICAGO* sp.  
No. 445. From 45 km. east of Gaziantep, May 3, 1936.
117372. *MEDICAGO* sp.  
No. 405. From 15 km. northwest of Mersin, April 27, 1936.
117373. *MEDICAGO* sp.  
No. 351. From Adana, April 20, 1936.
117374. *MEDICAGO* sp.  
No. 418. From 40 km. east of Gaziantep, May 3, 1936.
117375. *MEDICAGO* sp.  
No. 338. From Adana, April 20, 1936.
117376. *MELICA MINUTA* L. Poaceae. Grass.  
No. 352. Collected 6 km. north of Adana, April 21, 1936. A tufted perennial grass up to about 1 foot high. Native to the Mediterranean region.
117377. *MELICA* sp. Poaceae. Grass.  
No. 357. From 60 km. northwest of Adana, April 23, 1936.
117378. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.  
No. 273. From Gaziantep, April 30, 1936. Chewing tobacco.
117379. *ONOBRYCHIS CAPUT-GALLI* (L.) Lam. Fabaceae.  
No. 319. From Adana, April 20, 1936.
- 117380 to 117384. *ORYZOPSIS COERULESCENS* (Desf.) Hack. Poaceae.  
117380. No. 401. Collected 15 km. northwest of Mersin, April 27, 1936.
117381. No. 374. From a rocky slope near Geyhan, April 22, 1936.
117382. No. 330. Collected 60 km. northwest of Adana, April 23, 1936.
117383. No. 333. Collected 9 km. north of Adana, April 21, 1936.
117384. No. 348. Collected 7 km. north of Adana, April 21, 1936.
117385. *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae. Parsley.  
No. 523. *Maydanoz*. From the Eskişehir bazar, April 16, 1936.
117386. *PHALARIS TUBEROSA* L. Poaceae.  
No. 382. From the Cotton Experiment Station, Adana, April 28, 1936.
- 117387 to 117389. *PHASEOLUS* spp. Fabaceae. Bean.  
117387. *PHASEOLUS* sp.  
No. 389. From the Cotton Experiment Station, Adana, April 28, 1936.
117388. *PHASEOLUS COCCINEUS* L. Scarlet runner bean.  
No. 162. From Afyon, April 17, 1936.
117389. *PHASEOLUS* sp.  
No. 390. *Elasiz* bean (mung type). From the Cotton Experiment Station, Adana, April 28, 1936.

## 117319 to 117438—Continued.

117390. *PISUM SATIVUM* L. Fabaceae. **Pea.**  
No. 350. From Adana, April 28, 1936.
117391. *POA BULBOSA* L. Poaceae. **Grass.**  
No. 456. *AK* or *dag*. From near Kayseri, May 6, 1936.
117392. *POA BULBOSA* L. Poaceae. **Grass.**  
No. 337. Collected 10 km. northwest of Adana, April 23, 1936.
- 117393 to 117395. *RAPHANUS RAPHANISTRUM* L. Brassicaceae. **Radish.**  
117393. No. 397. Collected 4 km. east of Selifke, April 26, 1936. A cultivated radish.  
117394. No. 377. From Geyhan, April 22, 1936.  
117395. No. 361. Collected 15 km. south of Adana, April 28, 1936. A yellow-flowered form.
117396. *SESAMUM ORIENTALE* L. Pedaliaceae. **Sesame.**  
No. 282. From Gaziantep, April 30, 1936.
- 117397 to 117399. *SORGHUM VULGARE* Pers. Poaceae. **Sorghum.**  
117397. No. 264—A. From Gaziantep, April 30, 1936. A white-seeded variety.  
117398. No. 136. From the Ankara bazar, April 15, 1936.  
117399. No. 232. From Tarsus, April 26, 1936.
- 117400 to 117417. *TRIFOLIUM* spp. Fabaceae. **Clover.**  
117400. *TRIFOLIUM INCARNATUM* L. **Crimson clover.**  
No. 441. Collected 20 km. south of Narle, May 4, 1936. A wild red clover.
- 117401 to 117403. *TRIFOLIUM FILULARE* Boiss.  
Collected 20 km. south of Narle, May 4, 1936.  
For previous introduction see 30100.  
117401. No. 431.  
117402. No. 437.  
117403. No. 439.
- Nos. 117404 to 117407 were collected at Adana, April 20, 1936.
117404. *TRIFOLIUM* sp.  
No. 334.
117405. *TRIFOLIUM* sp.  
No. 335.
117406. *TRIFOLIUM* sp.  
No. 336.
117407. *TRIFOLIUM* sp.  
No. 355.
- Nos. 117408 to 117410 were collected between 25 km. and 40 km. west of Mersin, April 26, 1936.
117408. *TRIFOLIUM* sp.  
No. 404.
117409. *TRIFOLIUM* sp.  
No. 409.

## 117319 to 117438—Continued.

117410. *TRIFOLIUM* sp.  
No. 411.  
Nos. 117411 to 117413 were collected 20 km. south of Narle, May 4, 1936.
117411. *TRIFOLIUM* sp.  
No. 432.
117412. *TRIFOLIUM* sp.  
No. 436.
117413. *TRIFOLIUM* sp.  
No. 442.
117414. *TRIFOLIUM* sp.  
No. 462. From Adana, April 20, 1936.
117415. *TRIFOLIUM* sp.  
No. 419. From Gaziantep, May 1, 1936.
117416. *TRIFOLIUM* sp.  
No. 328. *Hop clover*. Collected 40 km. northwest of Adana, April 23, 1936.
117417. *TRIFOLIUM* sp.  
No. 443. From 20 km. south of Narle, May 4, 1936.
117418. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. **Fenugreek.**  
No. 298. *Chaman*. From Kayseri, May 6, 1936.  
For previous introduction see 114457.
- 117419 to 117423. *TRITICUM ÆSTIVUM* L. Poaceae. **Common wheat.**  
117419. No. 159. From Afyon, April 17, 1936.  
A mixed sample.  
Nos. 117420 to 117423 were collected at Gaziantep, April 30, 1936.
117420. No. 269. *White Harran wheat*.
117421. No. 263. *Summer wheat*.
117422. No. 288. *Red Urfa wheat*.
117423. No. 252. *Red Harran wheat*.
- 117424 to 117432. *VICIA* spp. Fabaceae. **Vetch.**  
117424. *VICIA ANGUSTIFOLIA* Grufberg.  
No. 318. From Adana, April 22, 1936.
- 117425 to 117430. *VICIA SATIVA* L. **Common vetch.**  
117425. No. 420. Collected 40 km. east of Gaziantep, May 3, 1936.  
Nos. 117426 to 117430 were collected at the Cotton Experiment Station, Adana, April 28, 1936.
117426. No. 383.
117427. No. 381. *Bulgarian No. 3*.
117428. No. 380. *Bulgarian No. 5*.
117429. No. 387. *Bulgarian No. 1*.
117430. No. 388. *Bulgarian No. 4*.
117431. *VICIA ERVILIA* (L.) Willd.  
No. 168. Konya, April 19, 1936.  
Used as stock feed.

## 117319 to 117438—Continued.

117432. *VICIA PEREGRINA* L.

No. 340. From Adana, April 20, 1936.

117433. *LATHYRUS GORGONI* Parl. Fabaceae.

No. 353. From Adana, April 20, 1936.

117434 to 117438. *ZEA MAYS* L. Poaceae.  
Corn.117434. No. 520. *Cin misiri*. From the Eskisehir bazar, April 16, 1936.

117435. No. 109. From the Ankara bazar, April 15, 1936.

117436. No. 153. *Misir*. From Afyon, April 17, 1936.117437. No. 530. *Misir*. From the Eskisehir bazar, April 16, 1936.

117438. No. 250. From Gaziantep, April 30, 1936.

## 117439 to 117459.

From India and Afghanistan. Seeds and bulbs collected by Walter Koelz, Bureau of Plant Industry. Received July 18, 1936.

Unless otherwise stated, this material was received as seeds from India.

117439. *BAUHINIA VARIEGATA* L. Caesalpiniaceae.

No. 927. From Oot, Mandi State, May 30, 1936 at 3,500 feet altitude. A tree which becomes 30 feet high, with leaves 3 to 4 inches wide and five-petaled flowers 4 inches across in short racemes, the lowest petal of each strongly marked with crimson. The rose-colored veins are variegated with red and yellow. The pod is 1 to 2 feet long. Native to India.

117440. *BOMBAX* sp. Bombacaceae.

No. 917. *Shirmi*. From Baijnath, Kangra Valley, Punjab, May 22, 1936. A large handsome tree which becomes 75 feet high and 2½ feet in diameter, with branches at the top. The flowers are larger and more attractive than those of *Bombax malabaricum*, and the tree will tolerate a light frost.

117441. *CENTAUREA* sp. Asteraceae.

No. 906. *Gundung ghul*. From Kabul, Afghanistan, at 600 feet altitude. May 17, 1936. A plant with very large, bright-cobalt blue flower heads; said to be wild.

117442 to 117444. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

Collected at Lahore, Punjab, May 20, 1936.

117442. No. 909. *Lucknow kharbuza*.

Said to have come from Lucknow. Fruits golden yellow, smooth, half compressed, 6 inches in diameter, no conspicuous ribs; strong musky odor, not unpleasant. Flesh 1 inch thick, white to salmon, sweet, edible to the papery skin. A splendid keeper.

117443. No. 910. Said to have come from Montgomery, Punjab. Fruit smooth, rounded, 6 by 4 inches, yellow with or without broad green rib lines; ribs more or less conspicuous; flesh 1½ inches thick, usually salmon, sweet and fragrant. A good keeper.

## 117439 to 117459—Continued.

117444. No. 911. Variety *Pathankot*. Said to have come from Montgomery, Punjab. Fruit smooth, not ribbed, 7 by 4 inches, yellow, fragrant; flesh three-fourths of an inch thick; salmon, rather acid but agreeable.

117445. *ERTHRINA* sp. Fabaceae.

No. 923. From Oot, Mandi State, May 30, 1936. A tree up to 40 feet with thorny branches. The attractive scarlet flowers appear in the spring before the leaves.

117446. *FICUS* sp. Moraceae.

No. 918. *Jangli anjir*. From Baijnath, Kangra Valley, Punjab, at 3,000 feet altitude, May 22, 1936. An ornamental tree with large soft leaves; fruit large, 2 inches long, rose purple, insipid, and borne on the trunk.

117447. *DUCHESNEA INDICA* (Andrews) Focke. Rosaceae.

No. 930. From Bandrole, Kulu, Punjab.

117448. *GREWIA ASIATICA* L. Thiaceae.

No. 928. *Kopal*. From Mandi, Mandi State, May 30, 1936. Fruit deep rose-purple, elongate, three-fourths of an inch long, pleasantly acid. Sold in the market in large quantities.

117449. *HOLARRHENA ANTIDYSENTERICA* (Roth) Wall. Apocynaceae.

No. 921. From Baijnath, Kangra Valley, Punjab, at 3,000 feet altitude May 23, 1936. A small ornamental tree whose leaves are fed to cattle. Flowers white to cream-colored, very fragrant. Native throughout India.

For previous introduction see 61607.

117450. *MORUS ALBA* L. Moraceae. **White mulberry.**

No. 904. *Tut*. From Nimle, Afghanistan. May 17, 1936. Tree 2½ feet in diameter, attractive form and foliage; fruit nearly an inch long, white, some carpels tinted pink purple, exceedingly sweet.

117451. *NARCISSUS* sp. Amaryllidaceae.

No. 932. *Bhote phul*. From Kulu, Kulu, Punjab, June 1, 1936. Bulbs of a plant with attractive heads of yellow-cupped, fragrant white flowers, borne abundantly in November in the lower limits of the range, in March in the upper range; will not stand freezing.

117452. *OUGEINIA DALBERGIOIDES* Benth. Fabaceae.

No. 925. From Oot, Mandi State, May 30, 1936. A small tree, covered in early spring with large pink flowers. The leaves are pinnately three-foiolate, with rigid, leathery rounded leaflets. Native to northern India up to 4,000 feet altitude.

117453. *PAPAVER* sp. Papaveraceae.

No. 908. From Nimle, Afghanistan. May 17, 1936. A plant 5 feet high, with pink, very double flowers 4 inches in diameter; collected in a garden.

## 117439 to 117459—Continued.

117454. PRUNUS ARMENIACA L. Amygdalaceae.  
Apricot.

No. 929. *Sharra*. From Kulu, Kulu, Punjab, at 4,000 feet altitude, May 31, 1936. Tree up to 30 feet high, vigorous and productive; fruit usually about 1 inch in diameter.

117455 to 117457. RUBUS spp. Rosaceae.

From Baijnath, Kangra Valley, Punjab, at 3,000 feet altitude. May 22 and 23, 1936.

117455. RUBUS ELLIPTICUS J. E. Smith.  
Yellow Himalayan raspberry.

No. 913. A compact scandent shrub 10 feet high, which bears large numbers of golden-yellow fruits about three-eighths of an inch in diameter; these are small-seeded, subacid, not strongly fragrant, but very pleasant. The plant tolerates light frost and is found in the Himalayas from about 3,000 to 5,000 feet altitude.

For previous introduction see 115987.

117456. RUBUS RUGOSUS J. E. Smith.

No. 915. A scandent shrub sometimes 30 feet tall, with very small, blackish fruits rather insipid in flavor. Native to the temperate Himalayas from 3,000 to 7,000 feet altitude.

For previous introduction see 32450.

117457. RUBUS sp.

No. 920. Fruits very small, black-purple, of good flavor but not freely borne.

117458. SAPINDUS EMARGINATA Vahl. Sapindaceae.  
Soapberry.

No. 931. *Ritha*. From Bandrole, Kulu, Punjab, May 31, 1936. A large attractive deciduous tree with small fruits which, when dried and pulverized, are used as a substitute for soap.

117459. SOLANUM sp. Solanaceae.

No. 916. From Baijnath, Kangra Valley, Punjab, at 3,000 feet altitude, May 22, 1936. A shrub 4 feet high with bright-orange fruits about one-fourth of an inch in diameter.

## 117460 and 117461.

From Cuba. Seeds presented by Robert M. Grey, Superintendent, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, through F. G. Walsingham. Received August 11, 1936.

117460. CEPHALOCEREUS BROOKSIANUS Britt. and Rose. Cactaceae.

A stout columnar cactus up to about 18 feet high, much branched at the base, with 8 or 9 obtuse ribs, yellow acicular spines, and small white night-blooming flowers. Native to Cuba.

117461. HARRISIA FERNOWI Britton. Cactaceae.

A night-flowering cactus with slender upright cylindrical stems to about 9 feet high and large white funnelform flowers borne singly near the ends of the branches. Native to Cuba.

## 117462 to 117486.

From New Zealand. Plants presented by H. R. Wright, Avondale, Auckland. Received August 19, 1936.

117462 to 117464. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

117462. *Early Elberta Cling*. A clingstone, color and quality very fine and nearly as large as *J. H. Hale*.

117463. *Purple Gem*. A cross between *Amygdalus persica* var. *Rubra*, an ornamental red-foliaged peach, and a yellow-fleshed commercial variety. Although not large, this fruit has a particularly fine flavor and is a very juicy freestone with cream-colored flesh. The tree is an immense cropper and ornamental, with its red foliage and bark in the spring.

117464. *Quality Queen*. A superb canning or bottling peach; color and texture excellent.

117465 to 117478. CITRUS spp. Rutaceae.

117465. CITRUS GRANDIS (L.) Osbeck. Grapefruit.

*Merthyr*. Originally from Australia.

117466. CITRUS SINENSIS (L.) Osbeck. Orange.

*Chaffey's Late*. Originally from Australia.

117467. CITRUS NOBILIS DELICIOSA (Ten.) Swingle. Mandarin orange.

*Sovereign*. Originally from Australia.

117468 and 117469. CITRUS SINENSIS (L.) Osbeck. Orange.

117468. *Wright's Navel*. A new Zealand variety.

117469. *Harvard's Late*. A new Zealand variety.

117470. CITRUS sp.

*Yuzu*. Originally from Japan.

117471. CITRUS sp.

*Daidai*. Originally from Japan.

117472. CITRUS sp.

*Yankan*. Originally from Taiwan.

117473. CITRUS sp.

*Mediterranean Blood*. Originally from India.

117474. CITRUS sp.

*Dehra Dun*. Originally from India.

117475. CITRUS sp.

*Excelsior*. Originally from India.

117476. CITRUS sp.

*Butwal*. Originally from India.

117477. CITRUS sp.

*Chinese Everbearing*. Originally from India.

117478. CITRUS sp.

*Colombia*. Originally from India.

117479 to 117484. MALUS SYLVESTRIS Mill. Malaceae. Apple.

117479. No. 1. Three-blooded *Delicious* seedling from New Zealand, first *Spy* × *Ridstone Pip*, then back on *Delicious*.



## 117462 to 117486—Continued.

117480. *Paradise* on aphid-proof stock from Australia.

117481. *Glengyle Red* on *English Paradise Malling No. 2*.

117482. *Glengyle Red* on aphid-proof stock, *Spy* × *Ridstone Pip*.

117483. *Glengyle Red* on aphid-proof stock, *Inn's Seedling*.

117484. *Irish apple*. Originally from Ireland.

117485. *PRUNUS* sp. Amygdalaceae.

*Allobokhara*. An Indian plum.

117486. *PRUNUS* sp. Amygdalaceae.

*Latest of All*. A New Zealand variety.

117487. *MANGIFERA INDICA* L. Anacardiaceae. **Mango.**

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry. Received August 14, 1936.

From Bombay.

117488. *AMYGDALUS PERSICA* L. Amygdalaceae. **Peach.**

From Canada. Budsticks presented by Howard Fisher, Dulverton Fruit Farm, Queenston, Ontario. Received August 22, 1936.

*Howard Fisher*. A sport of the *Valiant* peach.

117489 to 117506. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From Australia. Seeds grown at the Glen Innes Experiment Farm, and presented through Dr. H. Wenzholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received August 26, 1936.

A collection of wheats which have proved resistant to leaf rust at the Glen Innes Experiment Farm.

117489. *Argentine C* 8681.

117490. *Argentine C* 9556.

117491. *Argentine K* 33, C 9655.

117492. *Argentine K* 40, C 9658.

117493. *Ceres* × *Hope* × *Florence C* 10038.

117494. *Greek* 10, C 7135.

117495. *Greek* 18, C 7142.

117496. *Minor C* 9142.

117497. *Mocho C* 9693.

117498. *Portugal* 65, C 7897.

117499. *Portugal* 90, C 7921.

117500. *San Martin C* 9657.

117501. *Uruguay C* 10835.

117502. *Uruguay C* 10836.

117503. *Uruguay* 386, C 10838.

117504. *Uruguay* 392, C 10837.

117505. *Varnonne C* 6146.

117506. *Vencedor C* 9654.

117507 to 117510. *MANGIFERA INDICA* L. Anacardiaceae. **Mango.**

From Jamaica. Budsticks presented by Miss Zora Neale Hurston, Kingston. Received August 28, 1936.

117507. *Calcutta*.

117508. *Govenor*.

117509. *Paw Paw*.

117510. *St. Julian*. A very sweet, highly flavored variety which begins to bear at an early age.

117511. *RUBUS PHOENICOLASIVS* Maxim. Rosaceae. **Wineberry.**

From China. Seeds presented by H. K. Fu, Director, Botanic Garden, the Sun Yat-Sen Tomb and Memorial Park Commission. Received August 22, 1936.

A tall scandent Japanese bramble with slender branches, trifoliate leaves 5 to 7 inches long, and small pink flowers. The ovoid-oblong fruits are scarlet, three-fourths of an inch long, and edible but without much flavor.

For previous introduction see 92300.

117512 to 117529. *TRITICUM AESTIVUM* L. Poaceae. **Common wheat.**

From Australia. Seeds grown at the Glen Innes Experiment Farm and presented through Dr. H. Wenzholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received August 28, 1936.

117512. *Currawa* × *Hope* F<sub>2</sub>, G 94-58-D1-G4-0.

117513. *Federation* × *Hope* S. U. C. 9545.

117514. *Federation* × *Webster* S. U. C. 9458.

117515. *R L. 723* × *H. Federation* F<sub>2</sub>, G 4-1-1-0.

117516. *Hope* × *Currawa* F<sub>7</sub>, G 240-14-0-11.

117517. *Hope* × *Currawa* × *Dundee* F<sub>7</sub>, G 319-33-0-c2-e<sub>2</sub>0, 428E<sub>2</sub>35.

117518. *Hope* × *Currawa* × *Dundee* F<sub>6</sub>, G 319-22-2-0.

117519. *Hope* × *Currawa* × *Dundee* F<sub>6</sub>, G 319-23-2-0.

117520. *Hope* × *Currawa* × *Dundee* F<sub>7</sub>, G 319-0-c2-g0.

117521. *Hope* × *Waratah* F<sub>2</sub>, C5-G7-0-0-c1-E<sub>2</sub>0.

117522. *Hope* × *Waratah* F<sub>2</sub>, C5-G3-0-1-D1-G0.

117523. *Hope* × *Waratah* F<sub>7</sub>, G 306-0-0-c3-G0.

117524. *Hope* × *Yandilla King* F<sub>2</sub>, C2-gi-2-1-c2-D0.

117525. *Hop<sub>2</sub>* × *Yandilla King* F<sub>2</sub>, C2-gl-2-0-c2-e<sub>2</sub>0.

117526. *Kenya C* 9968.

117527. *Kenya C* 10854.

117528. *Kenya C* 10856.

117529. *Kenya C* 10863.

## 117530 to 117532.

From Burma. Seeds from the Tavoy District, presented by C. E. Parkinson, Forest Botanist, Forest Research Institute, Dehra Dun. Received August 6, 1936.

117530. *BAMBUSA LONGISPICULATA* Gamble. Poaceae. **Bamboo.**

*Tabindaing* bamboo.

117531. *CEPHALOSTACHYUM BURMANICUM* Parker and Parkinson. Poaceae. **Bamboo.**

*Kyatwa* bamboo. A clump bamboo similar to *Cephalostachyum pergracile*, but larger. The deep rich green, erect culms are more than 40 feet tall. Native to Burma.

117532. *DENDROCHLOA DISTANS* Parkinson. Poaceae. **Bamboo.**

*Tamwin*. A bamboo forming loose clumps with stems reaching a maximum height of 60 feet, very long internodes, and linear-lanceolate leaves about 2 feet long. Native to Burma.

## 117533 to 117573.

From Brazil. Seeds collected at Rio de Janeiro by W. A. Archer, Bureau of Plant Industry. Received August 17, 1936.

117533 and 117534. *ABELMOSCHUS ESCULENTUS* (L.) Moench. Malvaceae. **Okra.**

Cultivated okra collected July 23, 1936.

117533. No. 3486. *Quiabo chifre veado*.

117534. No. 3470. *Quiabo*.

117535. *ALLIUM CEPA* L. Liliaceae. **Onion.**

No. 3478. *Cebolla Rio Grande*. An onion with golden yellow skin; the only onion sold in the market; July 23, 1936.

117536 and 117537. *ALLIUM SATIVUM* L. Liliaceae. **Garlic.**

Purchased in the market, July 25, 1936.

117536. No. 3497. 117537. No. 3498.

117538. *ALLIUM SCHOENOPRASUM* L. Liliaceae. **Chives.**

No. 3479. *Cebolinho*. From the market, July 23, 1936.

117539 to 117543. *ARACHIS HYPOGAEA* L. Fabaceae. **Peanut.**

Purchased from wholesale houses at Rio de Janeiro, Brazil, July 25 and 28, 1936.

117539. No. 3499. A cultivated peanut grown in the State of Minas Geraes.

117540. No. 3500. *Tatú*. From the State of São Paulo; considered to be the best quality.

117541. No. 3501. *Tatú*. Common grade of peanut, from Santa Catharina.

117542. No. 3502. *Paraguay* type. Considered better than *Tatú*. From Rio Grande do Sul.

117543. No. 3503. A cultivated peanut said to have come from the State of São Paulo.

117544. *ASPARAGUS OFFICINALIS* L. Convolvulariaceae. **Garden asparagus.**

No. 3492. *Espargos*. From the general market at Rio de Janeiro, July 23, 1936.

## 117533 to 117573—Continued.

117545. *AVENA SATIVA* L. Poaceae. **Oats.**

No. 3477. *Aveia*. From a seed store in Rio de Janeiro, July 23, 1936, but said to have come originally from Peru.

117546 to 117549. *BRASSICA* spp. Brassicaceae.

From a seed store in Rio de Janeiro, July 23, 1936.

117546. *BRASSICA CAMPESTRIS* L. **Rutabaga.**

No. 3496. *Nabiça*. A cultivated turnip.

117547. *BRASSICA RAPA* L. **Turnip.**

No. 3495. *Couve nabica*. A cultivated turnip.

117548. *BRASSICA CAMPESTRIS* L. **Rutabaga.**

No. 3473. *Nabiça*. A cultivated turnip.

117549. *BRASSICA* sp.

No. 3493. *Couve manteiga*. Resembles kale.

117550. *FRAGARIA VESCA* L. Rosaceae. **Strawberry.**

No. 3465. A cultivated strawberry of good flavor; said to be grown in the Federal District. From a seed store in Rio de Janeiro, July 23, 1936.

117551 and 117552. *BRASSICA* spp. Brassicaceae.

Purchased in a seed store, July 23, 1936.

117551. *BRASSICA OLERACEA BOTRYTIS* L. **Broccoli.**

No. 3482. *Couve brocolo*. A cultivated broccoli.

117552. *BRASSICA PEKINENSIS* (Lour.) Rupr. **Petsai.**

No. 3483. *Couve da China Gak-Choy*. Cultivated Chinese cabbage.

117553. *CANAVALIA ENSIFORMIS* (L.) DC. Fabaceae. **Jackbean.**

No. 3475. *Feijão mucuna branco*. Used as a forage plant. From a seed store in Rio de Janeiro, July 23, 1936; originally from Peru.

117554 and 117555. *CUCUMIS VULGARIS* Schrad. Cucurbitaceae. **Watermelon.**

From a seed store in Rio de Janeiro, July 23, 1936.

117554. No. 3480. *Melancia Santa Barbara*.

117555. No. 3474. *Melancia do Rio Grande*.

117556 and 117557. *CUCUMIS ANGURIA* L. Cucurbitaceae. **West Indian gherkin.**

*Mexica*. From a seed store in Rio de Janeiro, July 23, 1936. A small fruit like a round spiny cucumber, used boiled as a vegetable.

117556. No. 3469. 117557. No. 3494.

117558 and 117559. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

From a seed store in Rio de Janeiro, July 23, 1936.

117558. No. 3468. *Melão*.

117559. No. 3487. *Melão cavillon*.

117533 to 117573—Continued.

117560 and 117561. CUCUMIS SATIVUS L. Cucurbitaceae. Cucumber.

From the general market at Rio de Janeiro, July 23, 1936.

117560. No. 3485. *Pepino para conserva*. A form used for pickling.

117561. No. 3471. *Pepinos*.

117562. CUCURBITA PEPO L. Cucurbitaceae. Pumpkin.

No. 3488. *Abobora Brasileira Assucarada*. From the market at Rio de Janeiro, July 23, 1936.

117563 to 117567. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From the general market, Rio de Janeiro, July 23, 1936.

117563. No. 3464. *São Paulo*. A common and popular red variety resembling a plum, irregularly globose and bilocular.

117564. No. 3472. *Tomate grande*.

117565. No. 3490. *Tomate Rio Grande de Fosso*.

117566. No. 3489. *Tomate garrafinha*.

117567. No. 3491. *Tomate Paulista Japonéz*.

117568 and 117569. NICOTIANA TABACUM L. Solanaceae. Tobacco.

117568. No. 3484. *Fumo*. From the general market at Rio de Janeiro, July 23, 1936. Said to be mixed varieties of cultivated tobacco grown in the Federal District.

117569. No. 3506. *São Gonçalo*. Presented by the Brazilian Department of Agriculture in Rio de Janeiro, July 29, 1936. Seed originally from the State of Bahia where the best grades of tobacco are grown.

117570 and 117571. PISUM SATIVUM L. Fabaceae. Pea.

*Ervilha*. From the general market, Rio de Janeiro, July 23, 1936. Pods flat, twice as large as ordinary green peas; when half mature the pods are cooked as a vegetable.

117570. No. 3466. 117571. No. 3467.

117572. SOLANUM MELONGENA L. Solanaceae. Eggplant.

No. 3481. *Gilo*. From the general market Rio de Janeiro, July 23, 1936.

117573. STIZOLOBIUM ATERRIMUM Piper and Tracy. Fabaceae. Velvetbean.

No. 3476. *Mucuna preta*. From the general market, Rio de Janeiro, July 23, 1936. Cultivated as a forage plant; seed originally from Peru.

117574 to 117585.

From South America. Seeds and bulbs collected by Mrs. Ynez Mexia, Bureau of Plant Industry. Received August 27, 1936.

Unless otherwise stated, the material collected was seeds.

117574 to 117585—Continued.

117574. AGROSTIS PALUSTRIS Huds. Poaceae. Creeping bent.

No. 7940-A. From Tierra del Fuego, eastern coast of Argentina. Found in open places in Nothofagus woods.

117575. ARAUCARIA sp. Pinaceae.

No. 8024-A. From Arequipa, Peru, April 29, 1936, at 2,400 m. altitude. A tree about 18 m. high found on a rocky hill in the garden of the old observatory.

117576. CYPELLA HERRERAE Diels. Iridaceae.

No. 8025-A. *Michi-Michi, Supay-Titoc*. May 1936. From the fortress Sacsahuaman, Departamento Cuzco, Peru, between 3,200 and 3,600 m. altitude. A cypella with stiff stems up to 1 m. high, long linear leaves, and violet-blue flowers. Native to Peru.

117577. CYPELLA sp. Iridaceae.

No. 8079-A. May 16, 1936. From Cerro Macchu-Picchu, Provincia Urubamba, Peru, at 3,200 m. altitude. A perennial herb 4 to 6 dm. high. Flowers not seen.

117578. DESCHAMPSIA PULCHRA Nees and Mey. Poaceae. Grass.

No. 7984-A. April 9, 1936. From the Last Hope Inlet, Terretoria Magallanes, Chile, on a marshy flat at the foot of Mount Dorothy. A tall tufted grass native to Chile.

117579. ELYMUS ANTARCTICUS Hook. f. Poaceae. Grass.

No. 7946-A. From Tierra del Fuego, eastern coast of Argentina. An erect grass about 6 dm. high with leathery leaves. Native to southern South America.

117580. HYMENOCALLIS AMANCAES (Ruiz and Pav.) Nichols. Amaryllidaceae. Spiderlily.

No. 8099. Bulbs collected June 21, 1936, in Provincia Pachacamac, Departamento Lima, Peru, in dry washes of arid coastal foot hills. Flowers large, canary yellow with green ribs.

117581. MIKANIA sp. Asteraceae.

No. 7857-A. February 15, 1936. Departamento Curico, Chile, on the road to Argentina, at 1,200 m. altitude. A scandent shrub with pink, slightly fragrant flowers.

117582. MUCUNA sp. Fabaceae.

No. 8037-A. *Aguacenua*. From Heda, on the Rio Sembray, La Selva Valley, Provinco La Convencion, Peru, at 1,500 m. altitude. A vine with huge clusters of gorgeous scarlet flowers.

117583. URCEOLINA sp. Amaryllidaceae.

No. 7871-A. February 13, 1936. Bulbs collected on the road from Curico to Argentina beyond Los Queñes, Departamento Curico, Chile, at 1,200 m. altitude. A common plant with crimson flowers fading to green at the base.

117584. (Undetermined.)

No. 7994-A. April 9, 1936. From the Last Hope Inlet, Terretoria Magallanes, Chile, at the base of Mount Dorothy. A perennial herb said to have pink, very fragrant flowers.

## 117574 to 117585—Continued.

117585. (Undetermined.)

No. 7945-A. March 18, 1936. From Viamonte, south of Cabo Penas, east coast of Tierra del Fuego, Argentina. A perennial herb with yellow flowers found in a meadow near a pond at 20 m. altitude.

## 117586. CITRUS sp. Rutaceae.

From Egypt. Budwood presented by Thomas W. Brown, Horticultural Section, Ministry of Agriculture, Giza. Received September 10, 1936.

Persian seedless lime.

## 117587. GOSSYPIUM BARBADENSE L. Malvaceae. Sea-island cotton.

From the British West Indies. Seeds presented by S. H. Evelyn, Cotton Research Officer, Cotton Experiment Station, Empire Cotton Growing Corporation, St. Vincent. Received August 24, 1936.

Strain A N. (Selfed seed.)

## 117588 and 117589.

From Argentina. Seeds presented by the Director of Agriculture, Buenos Aires, through Samuel J. Record, Yale University, New Haven Conn. Received September 5, 1936.

117588. ARAUCARIA ARAUCANA (Molina) Koch. (*A. imbricata* Pav.). Pinaceae.

117589. MAYTENUS BOARIA Molina. Celastraceae. **Mayten.**

For previous introduction see 52591.

## 117590. LALLEMANTIA IBERICA (Bieb.) Fisch. and Mey. Menthaceae.

From the Union of Soviet Socialist Republics. Seeds presented by the Director, Botanic Garden, Kiev, Ukraine. Received September 9, 1936.

For previous introduction and description see 117045.

## 117591. ARTOCARPUS COMMUNIS Forst. Moraceae. Breadfruit.

From Puerto Rico. Cuttings presented by Atherton Lee, Puerto Rico Agricultural Experiment Station, Mayaguez. Received September 16, 1936.

A tree, native to the East Indies, 30 to 40 feet high, with viscid milky juice and leathery ovate leaves 3 feet long, entire at the base but divided above into three to nine lobes. The large fruits, 4 to 6 inches in diameter, are often seedless, but when seeds are present they are much the size, shape, and flavor of chestnuts.

For previous introduction see 105735.

## 117592 to 117595.

From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received September 4, 1936.

117592. FRITILLARIA sp. Liliaceae.

No. 903-A. From Bűrűjek, July 22, 1936.

117593. GAGEA sp. Liliaceae.

No. 908-A. From 10 km. southeast of Gaziantep.

## 117592 to 117595—Continued.

117594. MUSCARI sp. Liliaceae.

No. 928-A. From 44 km. northeast of Malatya, July 17, 1936.

117595. (Undetermined.)

No. 905-A. From Bűrűjek, July 22, 1936.

## 117596. VITIS VINIFERA L. Vitaceae. European grape.

From the Union of South Africa. Cuttings presented by J. C. van Jaansveld, Government Viticultural Station, Paarl, Cape Province, through Prof. A. I. Perold, Stellenbosch University, Cape Colony. Received September 19, 1936.

*Bonnet De Retord.*

## 117597. HIPPEASTRUM PSITTAOINUM (Ker.) Herb. Amaryllidaceae.

From Brazil. Bulbs collected by W. A. Archer, Bureau of Plant Industry. Received September 19, 1936.

No. 3690. Collected August 14, 1936, at Rio de Janeiro. A hippeastrum with six to eight leaves over 1 foot long and a stout scape 2 to 3 feet long, bearing an umbel of two to four flowers with oblong undulate perianth segments 4 to 5 inches long, green with crimson stripes and edges. Native to Brazil.

## 117598. CURIMA COLOPHYLLA O. F. Cook. Phoenicaceae. Palm.

From Puerto Rico. Seeds presented by Atherton Lee, Superintendent, Puerto Rico Agricultural Experiment Station, Mayaguez. Received September 16, 1936.

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

## 117599. COMBRETUM sp. Combretaceae.

From China. Seeds presented by A. N. Steward, Department of Botany, College of Agriculture and Forestry, University of Nanking, Nanking. Received April 30, 1934. Numbered in September 1936.

F. 59. Collected at Chang An, Yung Hsien.

## 117600 to 117653. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Australia. Seeds presented by Dr. H. Wenholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received August 28, 1936.

117600. *Currawa* × *Hope* 8th. Gen. No. 7099.

117601. *Federation* × *Hope* S. U. C 9545.

117602. *Federation* × *Webster* S. U. C 9458.

117603. *Ford*.

117604. *Geeralying* × *Kenya*, 2053.

117605. *Greek* 10, C 7135.

117600 to 117653—Continued.

- 117606. *Greek* 18, C 7142.
- 117607. *Hope* × *Currawa*. 3085.
- 117608. *Hope* × *Currawa* × *Dundee*. 7506.
- 117609. *Hope* × *Currawa* × *Dundee*. 868.
- 117610. *Hope* × *Currawa* × *Dundee*. 428 E<sub>2</sub>.
- 117611. *Hope* × *Currawa* × *Dundee*. 5517.
- 117612. *Hope* × *Waratah*. 2716.
- 117613. *Hope* × *Waratah*. 437.
- 117614. *Hope* × *Waratah*. 5550.
- 117615. *Hope* × *Yandilla King*. 508d.
- 117616. *Hope* × *Yandilla King*. 433 E<sub>2</sub>.
- 117617. *Kenya* C 9906.
- 117618. *Kenya* C 9967.
- 117619. *Kenya* C 10854.
- 117620. *Kenya* C 10857 (Has Marquis parentage.)
- 117621. *Kenya* C 10859.
- 117622. *Kenya* C 10860 (Has Marquis parentage.)
- 117623. *Kenya* C 10863.
- 117624. *Kenya* × *Baringa*, 6th. Gen. 182 E<sub>2</sub>, '35.
- 117625. *Kenya* × *Baringa*, 6th. Gen. 492 E<sub>2</sub>, '35.
- 117626. *Kenya* × *Florence* × *Dundee*, 5th. Gen. No. 5130.
- 117627. *Kenya* × *Florence* × *Dundee*, 5th. Gen. No. 261, D '35.
- 117628. *Kenya* × *Florence* × *Dundee*, 5th. Gen. No. 5148. '35.
- 117629. *Kenya* × *Florence* × *Dundee*, 5th. Gen. No. 5266. '35.
- 117630. *Kenya* × *Florence* × *Dundee*, 5th. Gen. No. 4995. '35.
- 117631. *Kenya* × *Florence* × *Dundee*, 5th. Gen. No. 5144. '35.
- 117632. *Kenya* × *Florence* × *Dundee*, 5th. Gen. No. 5147. '35.
- 117633. *Kenya* × *Florence* × *Dundee*, 5th. Gen. G0-D8-Go.
- 117634. *Kenya* × *Florence* × *Dundee*, 5th. Gen. No. 5135. '35.
- 117635. *Kenya* × *Florence* × *Dundee*, 257 D.
- 117636. *Kenya* × *Florence* × *Dundee*, 264 D.
- 117637. *Kenya* × *Florence* × *Dundee*, 273 D.
- 117638. *Kenya* × *Florence* × *Dundee*, 118 E<sub>2</sub>.
- 117639. *Kenya* × *Florence* × *Dundee*, 5150.
- 117640. *Kenya* × *Gular*, 4902.
- 117641. *Kenya* × *Gular*, 4913.
- 117642. *Kenya* × *Gular*, 5939.
- 117643. *Kenya* × *Gular*, 5963.
- 117644. *Kenya* × *Merridan*, 2199.

117600 to 117653—Continued.

- 117645. *Kenya* × *Pusa*, 5297.
  - 117646. *Kenya* × *Pusa* 190, 2038.
  - 117647. *Kenya* × *Pusa* 4 × *Riverina* × *Wandilla*, 1989.
  - 117648. *Kenya* × *Pusa* 4 × *Riverina* × *Wandilla*, 1996.
  - 117649. *Kenya* × *Pusa* 4 × *Nabawa* × *Ghurka*, 2089.
  - 117650. *Kenya* × *Pusa* 4 × *Nabawa* × *Ghurka*, 2095.
  - 117651. *Marquillo* × *Bobin*, 2547.
  - 117652. *Pentad* × *Marquis* R. L. 723 × *Hard Federation*, 3222A.
  - 117653. *Three Seas*. C 5870.
- 117654 to 117677. NICOTIANA TABACUM L. Solanaceae. Common tobacco.**
- From Brazil. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received August 28, 1936.
- Nos. 117654 to 117674 were collected in the State of Minas Geraes in August 1936.
- 117654. No. 3617. From Lagoa Santa. Volunteer tobacco 8 feet tall; leaves slightly viscid; corolla margins dark red.
  - 117655. No. 3618. From Venda Nova. Volunteer tobacco 8 feet tall, leaves slightly viscid; corolla greenish below, dirty white above.
  - 117656. No. 3619. From Venda Nova. Volunteer tobacco, 8 feet high, leaves slightly viscid; corolla greenish at first and then pink-lipped.
- 117657 to 117671.** From Bello Horizonte, August 8, and 8, 1936. Cultivated tobacco presented by Abelardo de Albuquerque Sarmaneto, Chief of the Serviço de Fomento do Fumo, Secretaria de Agricultura do Estado de Minas Geraes.
- 117657. No. 3620. *Caethé*.
  - 117658. No. 3621. *Matta*.
  - 117659. No. 3622. *Pitanguy*.
  - 117660. No. 3623. *Descalvado*.
  - 117661. No. 3624. *Azul*.
  - 117662. No. 3625. *Oliveira*.
  - 117663. No. 3626. *Ouro*.
  - 117664. No. 3627. *Belém*. Originally from Bahia.
  - 117665. No. 3628. *Amaro*. Originally from Bahia.
  - 117666. No. 3629. *Cachoeira*. Originally from Bahia.
  - 117667. No. 3630. *Cruz das Atlas*. Originally from Bahia.
  - 117668. No. 3631. *São Gonçalo*. Originally from Bahia.
  - 117669. No. 3632. *Goyano*. One of the more important and well-known types.
  - 117670. No. 3633. *Mariense*. One of the more important and well-known types.
  - 117671. No. 3634. *Paraense*. One of the more important and well-known types.

## 117654 to 117677—Continued.

117672. No. 3663. *Chinez*. Introduced from China; the cured leaf is bright yellow.

117673. No. 3664. *Amarelinho*. Leaves bright yellow when cured.

117674. No. 3665. *Samsun*. Turkish tobacco. The cured leaf is bright yellow.

117675. No. 3671. *Mata garrapata*. From Cajeo do Sol, Serra de Cipó, August 5, 1936. A plant 5 feet tall with narrow lanceolate leaves; corolla whitish below, cerise above; leaves slightly viscid, young fruits and stems very viscid. This volunteer tobacco is used for smoking by the country people.

117676. No. 3672. *Mata garrapata*. From Cajeo do Sol, Serra do Cipó, August 5, 1936. A volunteer tobacco 5 to 7 feet tall with leaves broader than No. 3671 [P. I. 117675]; young fruits and stems very viscid, leaves only slightly so; corolla green above, pink below.

117677. No. 3507. Volunteer tobacco from a dooryard in Quintino Bocaiuva, a station on the interurban railway between Rio de Janeiro and Belém, July 29, 1936.

117678. × PRUNUS DASYCARPA Ehrh.  
Amygdalaceae. Plum-apricot.

From the Union of Soviet Socialist Republics. Cuttings presented by N. I. Sharapov, Department of New Cultures and Introduction, Institute of Plant Industry, Leningrad. Received February 13, 1936. Numbered in September 1936.

For previous introduction see 113534.

## 117679 to 117682.

From the Union of Soviet Socialist Republics. Scions presented by N. I. Sharapov, Department of New Cultures, Institute of Plant Industry. Received March 15, 1932. Numbered in September 1936.

117679. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

No. 01370.

117680 to 117682. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

117680. *Shirasky*, 2748.

117681. *Badeni Erik*, 2556.

117682. *Black Alexander*.

## 117683. DIOSPYROS sp. Diospyraceae.

From Japan. Scions presented by Seizo Endo, Kagawa-ken, through Prof. F. T. Bioletti, University of California, Berkeley, Calif. Received March 15, 1932. Numbered in September 1936.

*Takura*.

## 117684 to 117702.

From Morocco. Plants presented by H. Bravard, Directeur, Station Experimentale de Marrakech. Received March 9, 1936. Numbered in September 1936.

117684 to 117690. AMYGDALUS spp. Amygdalaceae.

117684 and 117685. AMYGDALUS COMMUNIS L. Almond.

117684. *Dorée No. 6*.

117685. *Tardive Bordou*.

## 117684 to 117702—Continued.

117686 to 117689. AMYGDALUS PERSICA L. Peach.

117686. *Louis Grognet*.

117687. *Directeur*.

117688. *Grosse Elrighdhe*.

117689. *Antoine Giroux*.

117690. AMYGDALUS COMMUNIS L. Almond.

*Lauzan*.

117691 to 117696. MALUS SYLVESTRIS Mill. Malaceae. Apple.

117691. *Transparente de Zurich*.

117692. *Rambour d'Allemagne*.

117693. *Comte d'Orloff*.

117694. *Belle de Mai*.

117695. *Jaune hatif*.

117696. *St. Germain*.

117697 to 117702. PRUNUS ARMENIACA L. Apricot.

117697. *Precoce espéren*.

117698. *Muscat pêche*.

117699. *Pelissier*.

117700. *Rouge du Roussillon*.

117701. *Grosse St. Jean*.

117702. *Guiditta Langtone*.

## 117703. TEPHROSIA VOGELII Hook. f. Fabaceae.

From Kenya Colony, Africa. Seeds purchased from the Mount Elgon Nurseries, Kanja Kola, Mount Elgon, Kitale. Received September 26, 1936.

A variety with purple flowers.

## 117704 to 117711.

From Egypt. Seeds presented by Thomas W. Brown, Director, Horticultural Section, Ministry of Agriculture, Giza. Received September 28, 1936.

117704. ANTIGONON LEPTOPUS Hook. and Arn. Polygonaceae. *Rosa-de-montana*.

A handsome summer-blooming climber, native to Mexico, and adapted for greenhouse culture or for growing out-of-doors in the far south. The flowers, with rose-pink sepals, are in many-flowered racemes.

For previous introduction see 111207.

117705. CARICA PAPAYA L. Papayaceae. Papaya.

117706. OLEA EUROPAEA L. Oleaceae. Olive.

117707 to 117711. SOLANUM spp. Solanaceae.

117707. SOLANUM INDICUM L.

A much-branched, prickly undershrub up to 8 feet high, with sinuate or lobed, ovate leaves 3 to 6 inches long and lateral racemes of many blue flowers with corollas about 1 inch across. Native to tropical India.

117704 to 117711—Continued.

117708. SOLANUM MACRANTHUM Dunal.  
Nightshade.

A very rapid-growing tree with large dark-green spiny leaves and a great profusion of large blue-violet flowers which change color from day to day, becoming a pale blue and later fading to white.

For previous introduction see 101294.

117709. SOLANUM PYRACANTHUM Jacq.  
Nightshade.

A prickly evergreen bush about 3 feet high, with blue flowers in racemes sometimes 6 inches long. The bright-red, round fruits are edible. Probably native to tropical Africa.

For previous introduction see 115288.

117710. SOLANUM TORVUM Swartz.  
Nightshade.

117711. SOLANUM WARSCEWICZII Lamber-  
tye.  
Nightshade.

An erect spiny shrubby nightshade about 6 feet high, with large soft green leaves and racemes of many large white flowers followed by shining pale-yellow fruits. Probably native to South America.

117712 to 117739. TRITICUM AESTIVUM L.  
Poaceae. Common wheat.

From Australia. Seeds presented by Dr. H. Wenholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received September 2, 1936.

117712. Clarendon × Hope. No. 5557.

117713. Currawa × Dundee × Marquillo.  
No. 5244.

117714. Currawa × Hope. No. 7099.

117715. Federation × Hope. C. 9545.

117716. Ford.

117717. Hope × Clarendon. No. 1629.

117718. Hope × Currawa. No. 3085.

117719. Hope × Currawa. No. 7099.

117720. Hope × Currawa. No. 3093.

117721. Hope × Currawa. No. 3081.

117722. Hope × Currawa × Dundee. No.  
865.

117723. Hope × Currawa × Dundee. No.  
868.

117724. Hope × Currawa × Dundee. No.  
428 E<sub>2</sub>.

117725. Hope × Currawa × Dundee. No.  
7506.

117726. Hope × Currawa × Dundee. No.  
5517.

117727. Hope × Waratah. No. 2716.

117728. Hope × Waratah. No. 5550.

117729. Hope × Waratah. No. 7113.

117730. Hope × Yandilla King. No. 433  
E<sub>2</sub>.

117731. Hope × Yandilla King. No. 508  
D.

117732. Kenya × Florence × Dundee.  
No. 273 D.

117712 to 117739—Continued.

117733. Kenya × Florence × Dundee.  
No. 5135.

117734. Kenya × Florence × Dundee.  
No. 5131.

117735. Kenya × Florence × Dundee.  
No. 5144.

117736. Kenya × Florence × Dundee.  
No. 5147.

117737. R. I. 595 × Florence. No. 3264b.

117738. R. I. 595 × Florence. No. 3263a.

117739. R. I. 723 × Hard Federation.  
No. 3222a.

117740 and 117741.

From Jamaica, British West Indies. Seeds presented by Miss Zora Neale Hurston, Kingston. Received September 25, 1936.

117740. PANICUM MAXIMUM Jacq. Poa-  
ceae. Guinea grass.

An erect perennial bunch grass 4 to 6 feet high, with open spreading panicles of spikelets. It is native to Africa and has been introduced into tropical America where it is cultivated for forage, furnishing pasture and green feed.

For previous introduction see 87464.

117741. SOLANUM sp. Solanaceae.  
Susumba.

117742 to 117749.

From China. Seeds presented by Y. K. Yang, Agronomy Department, National Szechwan University, Chengtu. Received September 24, 1936.

117742 to 117745. SOJA MAX (L.) Piper.  
Fabaceae. Soybean.

117742. S. A. H. 111.

117743. S. A. H. 112.

117744. S. A. H. 95.

117745. S. A. H. 101.

117746 to 117749. TRITICUM AESTIVUM L.  
Poaceae. Common wheat.

117746. S. A. B. 128.

117747. S. A. B. 77.

117748. S. A. B. 129.

117749. S. A. B. 63.

117750 to 117808. TRITICUM AESTIVUM L.  
Poaceae. Common wheat.

From Australia. Seeds presented by Dr. H. Wenholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received September 3, 1936.

A collection of wheats which are of promise from a rust-resistance standpoint.

117750. Currawa × Hope. No. 7099.

117751. Federation × Hope. C 9545.

117752. Federation × Webster. C 9458.

117753. Ford.

117754. Greek 10. C 7135.

117755. Greek 18. C 7142.

117756. Geeralying × Kenya. No. 2053.

117757. Hope × Currawa. No. 3085.

## 117750 to 117808—Continued.

117758. *Hope* × *Currawa* × *Dundee*, 428 E<sub>2</sub>.  
 117759. *Hope* × *Currawa* × *Dundee*. 868.  
 117760. *Hope* × *Currawa* × *Dundee*. No. 5517.  
 117761. *Hope* × *Currawa* × *Dundee*. No. 7506.  
 117762. *Hope* × *Waratah*. No. 2716.  
 117763. *Hope* × *Waratah*. No. 5550.  
 117764. *Hope* × *Waratah*. No. 437 E<sub>2</sub>.  
 117765. *Hope* × *Yandilla King*. No. 508 d.  
 117766. *Hope* × *Yandilla King*. 433 E<sub>2</sub>.  
 117767. *Kenya* C 9724.  
 117768. *Kenya* C 9906.  
 117769. *Kenya* C 9967.  
 117770. *Kenya* C 10854.  
 117771. *Kenya* C 10857 (Marquis parentage).  
 117772. *Kenya* C 10859.  
 117773. *Kenya* C 10860 (Marquis parentage).  
 117774. *Kenya* C 10863.  
 117775. *Kenya* C 10866.  
 117776. *Kenya* × *Baranga*. 182 E<sub>2</sub>.  
 117777. *Kenya* × *Baranga*. 494 E<sub>2</sub>.  
 117778. *Kenya* × *Florence* × *Dundee*.  
 117779. *Kenya* × *Florence* × *Dundee*.  
 117780. *Kenya* × *Florence* × *Dundee*. 257 D.  
 117781. *Kenya* × *Florence* × *Dundee*. 261 D.  
 117782. *Kenya* × *Florence* × *Dundee*. 264 D.  
 117783. *Kenya* × *Florence* × *Dundee*. 273 D.  
 117784. *Kenya* × *Florence* × *Dundee*. 4995.  
 117785. *Kenya* × *Florence* × *Dundee*. 5144.  
 117786. *Kenya* × *Florence* × *Dundee*. 5130.  
 117787. *Kenya* × *Florence* × *Dundee*. 5135.  
 117788. *Kenya* × *Florence* × *Dundee*. 5147.  
 117789. *Kenya* × *Florence* × *Dundee*. 5148.  
 117790. *Kenya* × *Florence* × *Dundee*. 5150.  
 117791. *Kenya* × *Florence* × *Dundee*. 5266.  
 117792. *Kenya* × *Gular*. 4902.  
 117793. *Kenya* × *Gular*. 4913.  
 117794. *Kenya* × *Gular*. 5935.  
 117795. *Kenya* × *Gular*. 5963.  
 117796. *Kenya* × *Merridan*. 2199.  
 117797. *Kenya* × *Merridan*. 2203.  
 117798. *Kenya* × *Pusa 190*. No. 2038.

## 117750 to 117808—Continued.

117799. *Kenya* × *Pusa 4*. 5297.  
 117800. *Kenya* × *Pusa* × *Riverina* × *Wandilla*. 1996.  
 117801. *Kenya* × *Pusa 4* × *Riverina* × *Wandilla*. 1989.  
 117802. *Kenya* × *Pusa* × *Nabawa* × *Ghurka*. 2095.  
 117803. *Kenya* × *Pusa 4* × *Nabawa* × *Ghurka*. 2089.  
 117804. *Marquillo* × *Bobin*. 2547.  
 117805. *Pentad* × *Marquis*. C 5975.  
 117806. *Pentad* × *Marquis*, R. L. 723 × *H. Federation*.  
 117807. *Portugal* C 7897.  
 117808. *Three Seas* C 5870.
- 117809 to 117837. ALLIUM spp. Liliaceae.
- From Turkey. Bulbs and seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received in July 1936.
- Unless otherwise stated, this material was received as bulbs.
117809. ALLIUM sp.  
 No. 465. From Gaziantep, May 2, 1936.  
 117810. ALLIUM sp.  
 (No field number.) From north of Adana.  
 117811. ALLIUM sp.  
 No. 478. From Aristef, 40 km. east of Gaziantep, May 3, 1936.  
 117812. ALLIUM sp.  
 No. 480. From 35 km. south of Gaziantep, May 1, 1936.  
 117813. ALLIUM sp.  
 No. 483. From 20 km. south of Gaziantep, May 1, 1936.  
 117814. ALLIUM sp.  
 No. 487. Bulbs and seeds from 25 km. northwest of Gaziantep, May 2, 1936.  
 117815. ALLIUM sp.  
 No. 506. From Ali Dag, near Talas, May 7, 1936.  
 117816. ALLIUM sp.  
 No. 508-A. From 10 km. west of Gaziantep.  
 117817. ALLIUM sp.  
 No. 553. From along the road to Urgub, May 7, 1936.  
 117818. ALLIUM sp.  
 No. 828. From dry hills, 30 km. east of Milas, May 26, 1936.  
 117819. ALLIUM sp.  
 No. 840. From 10 km. south of Denizli, May 30, 1936.  
 117820. ALLIUM PULCHELLUM Don.  
 No. 844. From 15 km. east of Milas. May 26, 1936.  
 117821. ALLIUM sp.  
 No. 845. From 35 km. north of Antatya.



117809 to 117837—Continued.

117822. ALLIUM sp.

No. 845-A. Seeds from 35 km. north of Antatya.

117823. ALLIUM PALLASII Murr.

No. 846. From 10 km. northwest of Denizli, May 31, 1936. A white onion with narrow linear leaves; cylindrical stems about a foot high and an umbel of many small flowers. It is related to *Allium macrostemon* and native to Turkistan.

117824. ALLIUM sp.

No. 848. From near Mulga, May 28, 1936.

117825. ALLIUM sp.

No. 847. From 5 km. northwest of Denizli, May 31, 1936. An allium with pink flowers.

117826. ALLIUM sp.

No. 855. From 35 km. west of Balikesir, June 16, 1936.

117827. ALLIUM sp.

No. 858. From 5 km. east of Kirpapak, June 11, 1936. A white-flowered onion whose bulbs have no odor.

117828. ALLIUM sp.

No. 859. From near Lire, May 25, 1936.

117829. ALLIUM sp.

No. 862. From rocky mountains 25 km. west of Aydin, May 25, 1936.

117830. ALLIUM sp.

No. 863. From Ephesus, May 24, 1936.

117831. ALLIUM sp.

No. 876. From near Aydin, May 26, 1936.

117832. ALLIUM sp.

No. 882. From 50 km. northwest of Izmir, June 10, 1936.

117833. ALLIUM sp.

No. 888. From 20 km. west of Yenisehir, June 19, 1936.

117834. ALLIUM sp.

No. 891. From a field 20 km. west of Bursa, June 18, 1936.

117835. ALLIUM sp.

No. 843. From mountainous country 15 km. south of Denizli, May 30, 1936.

117836. ALLIUM sp.

No. 830. From a valley near Isparta, June 2, 1936.

117837. ALLIUM sp.

No. 881. From a valley near Isparta, June 2, 1936.

117838 to 117967.

From Brazil. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received August 28, 1936.

A collection of cultivated vegetables from the seed stores at Belo Horizonte, State of Minas Geraes, August 1, 1936.

117838. ABELMOSCHUS ESCULENTUS (L.) Moench. Malvaceae. Okra.

No. 3577.

117838 to 117967—Continued.

117839 to 117843. ALLIUM CEPA L. Liliaceae. Onion.

117839. No. 3528. *Cebola branca*, a white onion.

117840. No. 3538. *Cebola amarella das Canarias*, a yellow onion.

117841. No. 3557. *Cebola róxa*, a red onion.

117842. No. 3564. *Cebola amarella*, a yellow onion.

117843. No. 3565. *Cebola branca Italiana*, an Italian white onion.

117844. APIUM GRAVEOLENS L. Apiaceae. Celery.

No. 3524. *Aipo branco*.

117845 to 117850. ARACHIS spp. Fabaceae. Peanut.

117845. ARACHIS.

No. 3660. *Amendoim paulista; gamelleira*. Said to be a cross between *Arachis nambiquarae* and *A. hypogaea* var. *Jumbo*.

117846 to 117850. ARACHIS HYPOGAEA L.

117846. No. 3582. Said to have been grown in the State of São Paulo.

117847. No. 3587. Grown in the State of Minas Geraes.

117848. No. 3588. Grown in the State of São Paulo.

117849. No. 3589. Grown in the State of Minas Geraes.

117850. No. 3590. Grown in the State of Minas Geraes.

117851. ALLIUM PORRUM L. Liliaceae. Leek.

No. 3554. *Alho porro*.

117852. ASPARAGUS OFFICINALIS L. Con-vallariaceae. Garden asparagus.

No. 3525. *Asparagos*.

117853 to 117871. BRASSICA spp. Brassica-ceae.

117853 and 117854. BRASSICA CAMPESTRIS L. Rutabaga.

117853. No. 3512. *Nabo Japonéz*. A cultivated Japanese turnip.

117854. No. 3546. *Nabiça*.

117855 to 117858. BRASSICA JUNCEA (L.) Coss. Chinese mustard.

117855. No. 3516. *Mostarda lisa*, a smooth mustard.

117856. No. 3567. *Mostarda crespa da China*. A curly Chinese mustard.

117857. No. 3563. *Mostardão Beliche*.

117858. No. 3540. *Mostarda crespa*, a curly mustard.

117859 to 117862. BRASSICA OLERACEA BOTRYTIS L.

117859. No. 3509. *Couve brocolos*. Broccoli.

117860. No. 3549. *Couve flor gigante*. Cauliflower.

117861. No. 3533. *Couve flor de Al-géria*. Cauliflower.

117862. No. 3579. *Couve flor Philomena*. Cauliflower.

## 117838 to 117967—Continued.

- 117863 to 117869. BRASSICA OLERACEA CAPITATA L. Cabbage.
117863. No. 3556. *Repolho rôxo*, a red cabbage.
117864. No. 3514. *Repolho crespo*, a curly cabbage.
117865. No. 3578. *Repolho novidade*.
117866. No. 3578—A. *Repolho alemão branco*, white German cabbage.
117867. No. 3581. *Repolho de S. Diniz*.
117868. No. 3550. *Couve todo anno*.
117869. No. 3534. *Couve tronchuda*.
117870. BRASSICA OLERACEA GONGYLODES L. Kohlrabi.
- No. 3532. *Couve rabano rôxa*.
117871. BRASSICA RAPA L. Turnip.
- No. 3513. *Nabo rôxo*, a red turnip.
117872. CAPSICUM ANNUUM L. Solanaceae. Common redpepper.
- No. 3511. *Pimentão gigante*.
- 117873 to 117876. CICHORIUM ENDIVIA L. Cichoriaceae. Endive.
117873. No. 3568. *Almeirão branco*, a white endive.
117874. No. 3535. *Almeirão branco*, a white endive.
117875. No. 3529. *Almeirão Italiana*, Italian endive.
117876. No. 3574. *Chicorea crespa*.
- 117877 and 117878. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.
117877. No. 3526. *Melancia*.
117878. No. 3571. *Melancia*.
- 117879 to 117883. CUCUMIS spp. Cucurbitaceae.
117879. CUCUMIS MELO L. Muskmelon.
- No. 3520. *Melão casca de carvalho*.
- 117880 to 117883. CUCUMIS SATIVUS L. Cucumber.
117880. No. 3547. *Pepino para conserva*. A cucumber used for pickling.
117881. No. 3555. *Pepino verde comprido*. A long green cucumber.
117882. No. 3569. *Pepino Italiano verde comprido*. A long green Italian cucumber.
117883. No. 3515. *Pepino*.
117884. CUCURBITA MOSCHATA Duchesne. Cucurbitaceae. Cushaw.
- No. 3531. *Abobora menina*.
- 117885 to 117889. CUCURBITA PEPO L. Cucurbitaceae. Pumpkin.
117885. No. 3517. *Abobora Italiana*. Italian pumpkin.
117886. No. 3518. *Abobora amarella*. A yellow pumpkin.
117887. No. 3551. *Abobora balcia*. Giant pumpkin.

## 117838 to 117967—Continued.

117888. No. 3572. *Abobora não lastra*.
117889. No. 3573. *Courge d'Italie qu Coucourzelle*.
- 117890 and 117891. DAUCUS CAROTA L. Apiaceae. Carrot.
117890. No. 3520. *Cenoura meia longa*. A medium long carrot.
117891. No. 3575. *Cenoura vermelha comprico*. A medium long carrot.
- 117892 to 117895. LACTUCA SATIVA L. Cichoriaceae. Garden lettuce.
117892. No. 3536. *Alface repolhuda*, a head lettuce.
117893. No. 3527. *Alface sem rival*.
117894. No. 3602. *Alface romana*.
117895. No. 3576. *Alface São Francisco*.
117896. LEPIDIUM SATIVUM L. Brassicaceae. Garden cress.
- No. 3523. *Agrião da terra*. Cultivated as a garnish.
- 117897 to 117900. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.
117897. No. 3543. *Tomate pera*.
117898. No. 3544. *Tomate grande liso*.
117899. No. 3552. *Tomate Rei Umberto*.
117900. No. 3580. *Tomate liso vermelho*. A smooth crimson tomato.
- 117901 to 117906. PHASEOLUS spp. Fabaceae. Bean.
117901. PHASEOLUS LUNATUS L. Lima bean.
- No. 3646. Cultivated for forage.
- 117902 to 117905. PHASEOLUS VULGARIS L. Common bean.
117902. No. 3548. *Feijão de vagem*. A green bean.
117903. No. 3539. *Feijão anão*. A dwarf bean.
117904. No. 3598. *Feijão carioca*. Grown locally.
117905. No. 3599. *Feijão enxofre*. Grown locally.
117906. PHASEOLUS sp.
- No. 3662. *Oró*. Soil-binding drought-resistant plant, cultivated for forage.
- 117907 to 117910. PISUM SATIVUM L. Fabaceae. Pea.
117907. No. 3600. *Ervilha*. Grown locally.
117908. No. 2558. *Ervilha torta de flor rôxa*. A pea with red flowers.
117909. No. 3562. *Ervilha torta*. A red-flowered pea.
117910. No. 3541. *Ervilha anã*. A dwarf pea.
117911. NASTURTIUM OFFICINALE R. Br. Brassicaceae. Watercress.
- No. 3522. *Agrião d'agua*.

117838 to 117967—Continued.

117912 to 117914. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.

117912. No. 3553. *Rabinete longo*. A long radish.

117913. No. 3566. *Rabinete Isatas*.

117914. No. 3510. *Rabinete comprido*. A long radish.

117915. *RUMEX ACETOSA* L. Polygonaceae. No. 3537. *Azedinha*. Cultivated as greens in Brazil.

For previous introduction see 55605.

117916 to 117918. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.

117916. No. 3519. *Giló branco*. A white eggplant.

117917. No. 3542. *Beringela róaa redonda*. A round red eggplant.

117918. No. 3570. *Beringela róaa comprida*. A long red eggplant.

117919 and 117920. *SPINACIA OLERACEA* L. Chenopodiaceae. Common spinach.

117919. No. 3521. *Espinafre*.

117920. No. 3545. *Espinafre perpetual*. A perennial spinach.

117921. *VICIA FABA* L. Fabaceae. Broadbean.

No. 3583. *Fabas*. Grown at Capella Nova.

117922. *VICIA ANGSTIFOLIA* Grufberg. Fabaceae. Vetch

No. 3653. Grown for forage.

117923. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

No. 3597. *Feijão miúdo*. Grown locally.

117924. *ACROCOMIA SCLEROCARPA* Mart. Phoenicaceae. Macauba palm.

No. 3669. *Coco macahuba*. A beautiful palm 40 feet high, with a very spiny trunk, particularly when young. The finely pinnate leaves are graceful and drooping, and the large bunches of fruit, green with brown scurfy hairs at the basal portion, are valued for the oil they produce.

For previous introduction see 98483.

117925. *ARAUCARIA BRASILIANA* A. Rich. Pinaceae. Brazilian araucaria.

No. 3585. *Pinhão de Barbaena*. Native to Minas Geraes. The edible nuts are sold in the markets.

For previous introduction see 43383.

117926. *CENTROSEMA PUBESCENS* Benth. Fabaceae.

No. 3640.

For previous introduction see 110898.

117927 and 117928. *PACHYRHIZUS EROSUS* (L.) Urban. Fabaceae.

117927. No. 3638. A red-seeded variety native to Brazil.

117928. No. 3639. *Jacatupé*, a black-seeded variety.

117838 to 117967—Continued.

117929. *CALOPOGONIUM BRACHYCARPUM* Benth. Fabaceae.

No. 3641. *Oró falso*. Presented by the State Experiment Station "Fazenda de Gamelleira," Bello Horizonte, State of Minas Geraes, August 8, 1936. A small often prostrate twining vine with trifoliate leaves and small violet or purple flowers. Native to tropical America.

117930. *CLITORIA TERNATEA* L. Fabaceae.

No. 3661. A cultivated forage plant.

For previous introduction see 110178.

117931. *TEPHROSIA ADUNCA* Benth. Fabaceae.

No. 3635. A prostrate perennial with compound leaves; cultivated as a cover crop.

For previous introduction see 64033.

117932. *TEPHROSIA PURPUREA* (L.) Pers. Fabaceae.

No. 3613. From Lagoa Santa, August 3, 1936. A prostrate perennial with compound leaves; cultivated as a cover crop.

For previous introduction see 103629.

117933 to 117938. *CROTALARIA* spp. Fabaceae.

117933. *CROTALARIA ANAGYROIDES* H. B. K.

No. 3655. Cultivated as forage.

117934. *CROTALARIA JUNCEA* L. Sunn-hemp.

No. 3645. Cultivated as forage and for its fiber.

For previous introduction see 98841.

117935. *CROTALARIA RETUSA* L.

No. 3653. Cultivated as forage and for its fiber.

For previous introduction see 107463.

117936. *CROTALARIA STRIATA* DC.

No. 3652. Cultivated for forage.

117937. *CROTALARIA USARAMOENSIS* Baker f.

No. 3656. Cultivated for forage.

117938. *CROTALARIA* sp.

No. 3637. Forage crop, native to Brazil.

117939. *DAHLIA*. Asteraceae.

No. 3561. A hybrid dahlia of unknown parentage, with single flower heads of various color combinations.

117940 and 117941. *DIANTHUS CARYOPHYLLUS* L. Silenaceae. Carnation.

117940. No. 3559. *Cravos extra*.

117941. No. 3560. *Cravos dobrados variados*. (Mixed colors.)

117942. *ERIOSEMA BENTHAMIANUM* Mart. Fabaceae.

No. 3610. A shrubby legume 2 to 3 feet high, native to Brazil.

117943. *EUCHLAENA MEXICANA* Schrad. Poaceae. Teosinte.

No. 3614. Cultivated as forage.

## 117838 to 117967—Continued.

117944 and 117945. *HELIANTHUS ANNUUS* L. Asteraceae. Common sunflower.

117944. No. 3651. *Girasol branco*; a selected strain cultivated for the oil of the seed.

117945. No. 3647. *Girasol preto*. Cultivated for the oil of the seed, but considered not so good as No. 3651. [P. I. 117944.]

117946. *LUPINUS MUTABILIS* Sweet. Fabaceae. South American lupine.

No. 3584. *Tremoço*. From Argentina.

117947. *MAURITIA FLEXUOSA* L. f. Phoenicaceae. Palm.

No. 3670. *Coco Burity*. A palm, native to tropical Brazil, which grows to a height of 150 feet with a trunk 30 inches in diameter. The leaves are from 9 to 16 feet long. This is one of the so-called ivory-nut palms. The fruit is spherical, about the size of a small apple, and covered with smooth reticulated scales. The spadix, loaded with fruit, is of immense weight, often more than two men can carry.

For previous introduction see 98522.

117948. *DESMODIUM BARBATUM* (L.) Benth. Fabaceae.

No. 3643. *Barbadinho*. A tropical American legume up to 2 feet high, used as forage.

117949. *ORBIGNYA MACROCARPA* Barb.-Rodr. Phoenicaceae. Palm.

No. 3668. *Cóco babassú*. One of the large forest palms of Brazil, with oil-bearing seeds which are collected and exported in large quantities to Europe and the United States. The oil is used in the same manner as coconut oil.

117950. *ORBIGNYA* sp. Phoenicaceae. Palm.

No. 3667. *Cóco tudeyá*.

117951 and 117952. *ORYZA SATIVA* L. Poaceae. Rice.

Grown in the State of Minas Geraes.

117951. No. 3592. *Triangulo*.

117952. No. 3591. *Minera*.

117953 and 117954. *PANICUM MAXIMUM* Jacq. Poaceae. Guinea grass.

Cultivated as forage.

117953. No. 3649. *Capim murumbú* or *capim colônido*. Native to the northern part of the State of Minas Geraes.

117954. No. 3642. *Capim sempre verde*.

117955. *PASPALUM MANDIOCANUM* Trin. Poaceae.

No. 3657. *Capim gengibre*. Cultivated as forage. A slender-stemmed grass about 2 feet high. Native to Brazil.

117956. *PENNISETUM SETOSUM* (Swartz) L. Rich. Poaceae. Grass.

No. 3648. *Capim elefante brasileiro*. Cultivated as forage.

117957. *PHASEOLUS CALCARATUS* Roxb. Fabaceae. Rice bean.

No. 3659. *Feijão chinês*.

## 117838 to 117967—Continued.

117958. *SESBANIA* sp. Fabaceae.

No. 3650. *Cabraia*. Cultivated as forage.

117959 and 117960. *TRIMEZA JUNCIFOLIA* (Klatt) Benth. and Hook. Iridaceae.

From Serra de Cipó, State of Minas Geraes. An iris-like plant with one to three rigid cylindrical leaves 1 to 2 feet high and a shorter leafless stem with a single cluster of bright-yellow fugitive flowers about an inch long. Native to Brazil, where it grows in sandy rocky soil.

117959. No. 3676.

117960. No. 3675. (Bulbs.)

117961 to 117967. *ZEA MAYS* L. Poaceae. Corn.

117961. No. 3593. *Milho alho*. Locally grown.

117962. No. 3594. *Milho pipoco*. Cultivated popcorn.

117963. No. 3595. *Milho pipoco*. Cultivated popcorn.

117964. No. 3596. *Milho alho*. Locally grown.

117965. No. 3601. *Milho pipoco*. Grown at Serra Mines.

117966. No. 3654. *Milho indigeno* (*Milho alho*).

117967. No. 3666. *Milho crystal*. This strain bears four full-sized ears on each stalk.

## 117968 to 117987.

From Turkey. Seeds and bulbs collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received September 4, 1936.

Nos. 117968 to 117978 were received as bulbs.

117968 to 117986. *ALLIUM* spp. Liliaceae.

117968. *ALLIUM* sp.

No. 911. From 25 km. southeast of the Elaziz Mountains, July 13, 1936.

117969. *ALLIUM* sp.

No. 912. From 25 km. southeast of the Elaziz Mountains, July 13, 1936.

117970. *ALLIUM* sp.

No. 913. From 30 km. southeast of the Elaziz Mountains, July 13, 1936.

117971. *ALLIUM* sp.

No. 914. From 52 km. southwest of Elaziz, July 14, 1936.

117972. *ALLIUM* sp.

No. 916. From 50 km. north of Malatya, July 17, 1936.

117973. *ALLIUM* sp.

No. 921. From Buruyek, July 22, 1936.

117974. *ALLIUM* sp.

No. 922. From 45 km. north of Nigde, July 26, 1936.

117975. *ALLIUM* sp.

No. 923-A. From 10 km. northwest of Buruyek, July 23, 1936.

## 117968 to 117987—Continued.

## 117976. ALLIUM sp.

No. 924-B. From 10 km. northwest of Buruyek, July 23, 1936.

## 117977. ALLIUM sp.

No. 925-C. From 10 km. northwest of Buruyek, July 23, 1936.

## 117978. ALLIUM sp.

No. 926-D. From 10 km. northwest of Buruyek, July 23, 1936.

Nos. 117979 to 117987 were received as seeds.

## 117979. ALLIUM sp.

No. 911-A. From southeast of Elaziz, July 13, 1936.

## 117980. ALLIUM sp.

No. 912-A. From 25 km. southeast of Elaziz, July 13, 1936.

## 117981. ALLIUM sp.

No. 913-A. From 30 km. southeast of Elaziz, July 13, 1936.

## 117982. ALLIUM sp.

No. 914-A. From 52 km. southwest of Elaziz, July 14, 1936.

## 117983. ALLIUM sp.

No. 916-A. From 50 km. north of Malatya, July 17, 1936.

## 117984. ALLIUM sp.

No. 921-A. From Buruyek, July 22, 1936.

## 117985. ALLIUM sp.

No. 922-A. From 45 km. north of Nigde, July 26, 1936.

## 117986. ALLIUM sp.

No. 923-A. From 10 km. northwest of Buruyek, July 23, 1936.

## 117987. AMYGDALUS sp. Amygdalaceae.

No. 910. From 5 km. east of Buruyek, July 6, 1936.

## 117988 to 118000.

From Brazil. Seeds and plants collected by W. A. Archer, Bureau of Plant Industry. Received September 9, 1936.

Unless otherwise mentioned, the material was received as seeds.

## 117988. ANANAS COMOSUS (L.) Merr. Bromeliaceae. Pineapple.

No. 3689. From the Serra do Cipó, eastern Minas Geraes, August 5, 1936. Suckers of a cultivated pineapple; the fruits are small but of extremely good flavor and the flesh is white. Apparently a local variety and long cultivated here.

## 117989. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

No. 3688. From Itãocara, State of Rio de Janeiro, August 13, 1936. Presented by the agency of Secretaria de Agricultura in Rio de Janeiro.

## 117990. BARBACENIA sp. Velloziaceae.

No. 3691. From Serra do Cipó, eastern Minas Geraes, August 5, 1936. A species with scented leaves, found in barren soil among rocks.

## 117988 to 118000—Continued.

## 117991. GALACTIA SCARLATINA (Mart.) Taub. Fabaceae.

No. 3693. From Serra do Cipó, eastern Minas Geraes, August 5, 1936. A twining suffrutescent vine with trifoliate leaves, the elliptic leaflets about 2 inches long, and numerous showy red flowers in axillary clusters. Native to Brazil.

## 117992. LAVOISIERA FRANCAVILLANA Cogn. Melastomaceae.

No. 3692. From Serra do Cipó, State of Minas Geraes, August 5, 1936. Received as "variety longiciliata," for which a place of publication has not been found. A shrub about 3 feet high, with leathery oblong-lanceolate, light-green leaves, covered with long silky hairs, appressed against the stem. The flowers are rose-colored.

## 117993 to 117996. NICOTIANA TABACUM L. Solanaceae. Tobacco.

117993. No. 3687. *Salonichi*. Cultivated tobacco from Serra do Cipó, eastern Minas Geraes, August 5, 1936. Seed apparently from Europe.

117994. No. 3586. From Bello Horizonte, Minas Geraes, August 2, 1936. Volunteer tobacco, 8 feet high, leaves slightly gummy; flowers pale green, edges of corolla tinged dull pink.

117995. No. 3616. From Lagoa Santo, State of Minas Geraes, August 3, 1936. Volunteer tobacco 3 feet high; corolla greenish white below, mottled red above; leaves slightly viscid.

117996. No. 3686. *Goumdi*. From Serra do Cipó, eastern Minas Geraes, August 5, 1936. Cultivated tobacco; seed apparently from Europe.

## 117997. PHYSOCALYX sp. Scrophulariaceae.

No. 3694. From Serra do Cipó, eastern Minas Geraes, August 5, 1936. An attractive shrub with showy flowers in terminal, leafy racemes.

## 117998. PISUM SATIVUM L. Fabaceae. Pea.

No. 3685. *Ervilha torta flor róxa*. From Serra do Cipó, Minas Geraes, August 5, 1936. A cultivated pea, said to have been imported from Europe, cooked in the pod as a vegetable.

## 117999. TRIMEZA JUNCIFOLIA (Klatt) Benth. and Hook. Iridaceae.

No. 3675. From Serra do Cipó, Minas Geraes, August 5, 1936. Found growing in sandy soil.

For previous introduction and description see 117960.

## 118000. ZEA MAYS L. Poaceae. Corn.

No. 3684. From Rio de Janeiro, August 12, 1936. Cultivated popcorn.

## 118001. STROPHANTHUS GRATIS (Wall. and Hook.) Baill. Apocynaceae.

From Cuba. Seeds presented by the Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received September 18, 1936.

Presented by the Department of Agriculture, Gold Coast, West Africa. A rank-growing woody creeper, with pinkish-white flowers in terminal clusters and enormous fruits nearly 3 feet long. Native to tropical Africa.

## 118001—Continued.

For previous introduction see 67745.

118002 to 118004. *FRAGARIA VESCA* L.  
Rosaceae. Strawberry.

From Switzerland. Seeds presented by Emil Mauser, Samenhandlung, Rathausbrocke Zürich. Received September 28, 1936.

118002. *Rügen*. An everbearing variety.

118003. *Baron Solemacher*. An everbearing variety, of large size.

118004. *Baron Solemacher Weiss*. A light-colored variety.

118005 and 118006. *ALLIUM* spp. Liliaceae.

From Turkey. Bulbs and seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received September 4, 1936.

From 10 km. northwest of Buruyek, in the Toros Mountains, July 23, 1936.

118005. *ALLIUM* sp.

No. 900. (Bulbs.)

118006. *ALLIUM* sp.

No. 926-A. (Seeds.)

## 118007 to 118098.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry. Received September 3, 1936.

118007 to 118010. *AMYGDALUS* spp. Amygdalaceae.

118007 to 118009. *AMYGDALUS PERSICA* L.  
Peach.

118007. No. 974. *Aru*. From Chamba, Chamba State, at 3,000 feet altitude, July 12, 1936. A small tree 8 inches in diameter, fruit white, freestone, 1¼ inches in diameter, of good flavor.

118008. No. 975. *Aru*. From Chamba, Chamba State. A yellow-fleshed, beaked, clingstone peach, 2¼ inches in diameter. This variety is found from 3,000 to 7,500 feet altitude.

118009. No. 1008. *Aru*. From Srinagar, Kashmir, July 20, 1936. Presented by the Government Gardens. Fruit well marked with crimson, 1½ inches in diameter; a white-fleshed freestone of good quality. Said to be one of the Saharanpur varieties and, as such, grows in extreme heat. Here it tolerates mild freezes.

118010. *AMYGDALUS* sp.

No. 939. From Kukti, Chamba State, July 4, 1936, at 9,000 feet altitude. Tall slender trees, 3 or 4 inches in diameter and 40 feet high, which resemble willows from a distance. Fruit 1 inch in diameter. Should be a fine ornamental.

118011. *ANDROSACE* sp. Primulaceae.

No. 936. *Kukti Nulla*. From Lahul, Punjab, July 1, 1936. An herb with attractive heads of pink flowers, found on dry ground.

## 118007 to 118098—Continued.

118012. *ANEMONE* sp. Ranunculaceae.

No. 937. From Reling, Chamba State, July 2, 1936, at 14,000 feet altitude. Flowers yellow, backed more or less with indigo. Attractive clumps to 2 feet.

118013. *AQUILEGIA* sp. Ranunculaceae.

No. 981. From the Kalatop Forest, Dalhousie, Punjab, July 12, 1936. A plant 2½ feet high, with glaucous foliage, found in the shade. The few flowers are deep wine colored without fragrance and appear early.

118014 and 118015. *BRASSICA RAPA* L.  
Brassicaceae. Turnip.

From Partan, Kashmir, July 22, 1936. Collected in the market.

118014. No. 1023. A greenish rutabaga, common on the market, up to 4 inches in diameter, mild and of good flavor.

118015. No. 1022. Said to be red-rooted and globular.

118016. *CAESALPINIA SEPIARIA* Roxb. Caesalpinaceae. Mysore thorn.

No. 978. From Khajjar, Chamba State, July 11, 1936. A thorny shrub sometimes 10 feet high, semiscandent, with long racemes of orange or yellow flowers.

For previous introduction see 103116.

118017 to 118023. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.

118017 to 118021. *Tarbuza*. From Lahore, Punjab, July 14, 1936, but of unknown source.

118017. No. 984. Fruit elongate, 16 inches long, pale green, lightly and finely netted. Flesh of good quality, but low in sugar.

118018. No. 985. A pale-green elongate fruit 18 inches long with longitudinal blotching. Flesh good, but not very sweet.

118019. No. 986. A dark-green globular fruit, 18 inches in diameter, with red flesh.

118020. No. 987. A dark-green globular fruit 12 inches in diameter; flesh of good texture and sweet.

118021. No. 991. A pale-green subglobose fruit 8 inches in diameter, lightly netted.

118022. No. 1005. *Tarbuza*. From Lake Dal, Kashmir, July 19, 1936. A dark-green globose fruit 12 inches in diameter which is indistinguishable externally from the regular red-seeded form.

118023. No. 1037. *Hendvend*. From Srinagar, Kashmir, at 5,200 feet altitude, July 24, 1936. A pale-green elongated fruit 18 inches long, with cloud stripes of darker green. Grown on rafts in the lake.

118024. *CORYLUS* sp. Betulaceae.

No. 969. *Tangi*. From Chamba, Chamba State, July 12, 1936. Said to have come from Pangl. A large ornamental tree that grows in the walnut-*fir* zone. The nuts have a good flavor and are not so woody as our bush hazels.

118007 to 118098—Continued.

118025 to 118031. *CUCUMIS* spp. Cucurbitaceae.

118025 to 118029. *CUCUMIS* MELO L. Muskmelon.

118025. No. 967. *Kharbuza*. From Chamba, Chamba State, July 12, 1936. A smooth, nearly globular orange fruit, 6 inches in diameter, with pronounced ribs and fragrant orange flesh.

Nos. 118026 to 118028 were from Lahore, Punjab, July 14, 1936.

118026. No. 988. *Kharbuza*. Said to have come from Neahey. A smooth globular orange fruit with prominent ribs. The fragrant orange flesh is sweet with no musky flavor.

118027. No. 989. *Kharbuza*. Said to have come from Lucknow. A smooth yellow compressed fruit 8 by 4 inches, nearly unribbed, and sometimes netted with green. Flesh white to salmon, but the white flesh is usually the best; sweet with attractive flavor.

118028. No. 992. *Lada*. Said to have come from Chaman. Fruit elongate, 18 inches long, yellow to gold, well netted. A variety of very favorable reputation.

118029. No. 999. *Kharbuza*. Said to have come from Kobat, North West Frontier Province. A pale-yellow, slightly netted cigarlike fruit, 1 foot long, with sweet and very attractive yellow flesh.

118030 and 118031. *CUCUMIS SATIVUS* L. Cucumber.

118030. No. 952. *Kakri*. From Chamba Brahmaur, Chamba State, July 7, 1936. Said to be a cucumber of ordinary size and shape.

118031. No. 1038. *Dadar*. From Srinagar, Kashmir, July 25, 1936. A water-grown cucumber; planted on floating rafts.

118032 to 118034. *CUCURBITA* spp. Cucurbitaceae.

118032. *CUCURBITA MAXIMA* Duchesne. Squash.

No. 972. From Chamba, Chamba State, July 12, 1936. Described as a squash that attains a very large size.

118033 and 118034. *CUCURBITA PEPO* L. Pumpkin.

From Chamba, Chamba State, July 12, 1936.

118033. No. 971. Said to have an elongate fruit which weighs 30 pounds. Vines very vigorous and climb over houses and trees.

118034. No. 970. Said to be a small turban-squash, cream-colored to deep orange, 6 inches in diameter.

118035. *DAUCUS CAROTA* L. Apiaceae. Carrot.

No. 961. *Gadjar*. From Chamba, Chamba State, July 10, 1936. Said to be a mixture of local races.

118007 to 118098—Continued.

118036. *DELPHINIUM* sp. Ranunculaceae. Larkspur.

No. 953. From Brahmaur, Chamba State, July 7, 1936. A perennial about 3 feet high, found usually on dry grassy slopes. The flowers are beautiful deep sky blue.

118037 to 118039. *FRAGARIA* spp. Rosaceae. Strawberry.

118037. *FRAGARIA* sp.

No. 935. *Palyur*. From Kukti Nulla, Lahul, Punjab, June 30, 1936. Small fruits, one-half inch in diameter and of poor flavor.

118038. *FRAGARIA* sp.

No. 940. From Kukti, Chamba State, July 4, 1936, at 9,600 feet altitude. Growing in pine forest; fruits in clusters of 1 to 3 and one-fourth inch in diameter; sweet and well-flavored.

118039. *FRAGARIA* sp.

No. 980. From Dalhousie, Punjab, in the Kalatop Forest, at 7,000 feet altitude, July 12, 1936. Plants up to 8 inches in height, with sweet crimson fruits one-half inch in diameter.

118040. *HAMAMELIS* sp. Hamamelidaceae.

No. 950. From Hursar, Chamba State, July 5, 1936. An enormous shrub 20 feet high, with branches 6 inches in diameter. Grows in shade or sun. Attractive form and leaves. All plants seen were laden with fruit.

118041. *HYPERICUM* sp. Hypericaceae.

No. 977. From Khajvas, Chamba State, 6,500 feet altitude, July 11, 1936. A dense ornamental shrub 3½ feet high, with abundant golden flowers. Grows in part shade or sun.

118042. *IRIS* sp. Iridaceae.

No. 1015. From Partan, Kashmir, July 22, 1936, at 5,000 feet altitude.

118043. *LONICERA* sp. Caprifoliaceae.

No. 976. From Chamba, Chamba State, July 12, 1936. Found in dense forest at 5,000 feet altitude. A scraggly shrub about 10 feet high, with very attractive scarlet berries.

118044 and 118045. *MANGIFERA INDICA* L. Anacardiaceae. Mango.

*Aru*. From Jammu State, July 16, 1936. Fruits almond-shaped, sweet, but with little flesh. All the wild northern forms are "suckling mangoes" and have much fiber, but are cold tolerant.

118044. No. 996. Fruits green, 2½ inches high.

118045. No. 997. Fruits green, yellow and scarlet, about 1½ inches high.

118046. *MORUS* sp. Moraceae.

No. 954. From Brahmaur, Chamba State, July 7, 1936, at 7,500 feet altitude. A huge tree over 30 feet in circumference with attractive foliage. The small red fruits, about 1 inch long, are said to be very good. The tree tolerates snow for 3 months and probably zero Fahrenheit, but the ground freezes only about 12 inches. The tree grows also at lower elevations and could probably be used as an ornamental.

## 118007 to 118098—Continued.

- 118047 to 118054. *ORYZA SATIVA* L. Poaceae. Rice.
118047. No. 983. *Lal chaul*. From Chamba, Chamba State, July 11, 1936. A wet rice with low heat requirements. Planted now and harvested in October.
118048. No. 1000. *Nwar*. From Verinag, Kashmir, July 16, 1936, at 6,400 feet altitude. One of the good rices of the State, and there are said to be about 200 varieties.
118049. No. 1001. *Dad Karer*. From Verinag, Kashmir, July 16, 1936, at 6,400 feet altitude. A red rice, not widely cultivated here.
118050. No. 1017. *Bosan*. From Partan, Kashmir, July 22, 1936, at 5,000 feet altitude. Said to be a white rice, but not particularly recommended. Grown in water.
118051. No. 1018. *Babri Bhol*. From Partan, Kashmir, July 22, 1936, at 5,000 feet altitude. A wet rice, described as one of the best grown in Kashmir.
118052. No. 1019. *Moghul biol*. From Partan, Kashmir, July 22, 1936, at 5,000 feet altitude. A wet rice, said to be one of the best white rices grown in Kashmir.
118053. No. 1020. *Bara*. From Partan, Kashmir, July 22, 1936, at 5,000 feet altitude. A wet rice, said to be one of the best grown in Kashmir.
118054. No. 1035. *Lulanza*. From the Srinagar bazar, Kashmir, July 23, 1936. Said to be one of the best of the Kashmir rices.
118055. *PEDICULARIS* sp. Scrophulariaceae.  
No. 946. From Kukti, Chamba State, July 5, 1936, at 10,000 feet altitude. A perennial with very attractive large yellow flowers in heads 6 inches long. Most species of *Pedicularis* here grow in wet peaty soil.
- 118056 to 118065. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.
- 118056 to 118060. *Rong*. Climbing beans with edible pods.  
Nos. 118056 and 118057 were collected at Brahmaur, Chamba State, July 7, 1936.
118056. No. 956. 118057. No. 957.
- 118058 to 118060. From Chamba, Chamba State, July 10, 1936.
118058. No. 960.
118059. No. 968.
118060. No. 982.
- 118061 to 118065. *Razma*. From Srinagar, Kashmir, July 7 to 23, 1936. Used as green beans and also as dried beans.
118061. No. 1027.
118062. No. 1028.
118063. No. 1029.
118064. No. 1030.
118065. No. 1031.

## 118007 to 118098—Continued.

118066. *PINUS GERARDIANA* Wall. Pinaceae. Pine.  
No. 964. *Neozia*. From Chamba, Chamba State, July 11, 1936, but said to be from Brahmaur at 7,500 feet altitude. An attractive tree with sycamorelike bark and edible seeds which are exported in quantities.
118067. *PISUM SATIVUM* L. Fabaceae. Pea.  
No. 1021. *Kara*. From Srinagar, Kashmir, July 23, 1936. Eaten roasted or boiled, both green and dried.
118068. *POPULUS* sp. Salicaceae.  
No. 949. From Hursar, Chamba State, July 6, 1936. A tree 60 feet high and 3 feet in diameter, found growing in river bottoms and plantations. It is a fast grower and does not seem to spread from the roots.
118069. *PRIMULA* sp. Primulaceae.  
No. 938. From Reling, Chamba State, July 2, 1936, at 1,400 feet altitude. Plants 8 to 10 inches high. The large purple flowers, one-half inch across, have white eyes.
118070. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.  
No. 955. From Brahmaur, Chamba State, July 7, 1936, at 8,000 feet altitude. Tree between 2 and 3 feet high, with fruit 1 inch in diameter.
118071. *PRUNUS ARMENIACA* L. Amygdalaceae.  
No. 990. *Chuli*. From Lahore, Punjab, July 14, 1936, but said to have come originally from Baluchistan. Fruits 1 inch in diameter, the color of a greengage plum, very sweet and pleasant.
118072. *PRUNUS CERASIFERA* Ehrh. Amygdalaceae. Myrobalan plum.  
No. 994. *Alucha*. From Jammu, Jammu State, July 16, 1936. Yellow fruits 1 inch in diameter, rather flavorless.
118073. *RAPHANUS SATIVUS* L. Brassicaceae. Radish.  
No. 965. *Mull*. From Chamba, Chamba State, July 12, 1936. A long white radish; used fresh or in curry.
- 118074 to 118080. *RUBUS* spp. Rosaceae.
118074. *RUBUS* sp.  
No. 944. From Kukti, Chamba State, July 4, 1936. A large well-formed bush 6 feet high, growing in pine forest. Fruits not ripe but probably blackish.
118075. *RUBUS* sp.  
No. 945. From Kukti, Chamba State, July 5, 1936, at 9,000 feet altitude. A small plant between 3 and 4 feet high, with scarlet to crimson fruits one-fourth inch across which are sweet and pleasant.
118076. *RUBUS* sp.  
No. 948. From Hursar, Chamba State, July 5, 1936. A bush about 5 feet high with small, few-seeded fruits.
118077. *RUBUS NIVEUS* Thunb. Rosaceae.  
No. 979. From Dalhousie, Punjab, July 12, 1936, at 7,000 feet altitude. Sweet crimson fruits from a bush 4 feet high.



118007 to 118098—Continued.

118078. *RUBUS* sp.

No. 1002. From Harwan, Kashmir, July 19, 1936, at 7,000 feet altitude. Sweet purple-black fruits, one-half inch in diameter.

118079. *RUBUS* sp.

No. 1003. From Nishat Gardens, Kashmir, July 19, 1936. Fruits sweet, crimson, but a bit watery, one-half inch across; purchased from a native.

118080. *RUBUS ULMIFOLIUS* Schott.

No. 1012. From Srinagar, Kashmir, July 22, 1936, at 5,200 feet altitude. Well rounded, dense, heavily armed shrubs up to 8 feet high, with rose-colored flowers, borne in profusion. Fruits black, one-half inch in diameter, and of good flavor.

118081 to 118083. *SALVIA* spp. *Mentha-*  
*ceae.*

118081. *SALVIA MOORCROFTIANA* Wall.

No. 958. From near Brahmaur, Chamba State, July 8, 1936, at 7,000 feet altitude. An herb about 2 feet high, with spikes of large blue-purple flowers and large woolly leaves; related to *Salvia sclarea*. It will tolerate hot sun and a dry situation.

For previous introduction see 101795.

118082. *SALVIA VERBENACA OBLONGIFOLIA*  
Benth.

No. 1010. From Sopor, Kashmir, July 22, 1936, at 5,000 feet altitude. A plant 18 inches high with spikes of attractive blue-purple flowers and thick rugose leaves. It prefers rather dry open ground.

118083. *SALVIA SCLAREA* L.

No. 1011. From Sopor, Kashmir, July 22, 1936, at 5,000 feet altitude. Plant 18 inches high with spikes of large pale-purple-blue flowers and thick rugose leaves. Prefers rather dry open ground.

118084. *SEDUM* sp. *Crassulaceae.*

No. 943. From Kukti, Chamba State, July 4, 1936. A small plant 4 inches high with leaves one-fourth inch long, and white flowers. Grows on mossy cliffs; a rock garden plant.

118085. *SOLANUM MELONGENA* L. *Solana-*  
*ceae.* **Eggplant.**

No. 966. *Bengan.* From Chamba, Chamba State, July 12, 1936. Said to be a long purple variety.

118086. *SOPHORA* sp. *Fabaceae.*

No. 959. From near Brahmaur, Chamba State, July 8, 1936, at 7,000 feet altitude. A leguminous shrub about 5 feet high, found on hot dry slopes. Leaves glaucous, pinnate, and 4 inches long. A possible ornamental for semiarid, hot situations.

118087 and 118088. *SPINACIA OLERACEA* L.  
*Chenopodiaceae.* **Common spinach.**

*Palag.* From Chamba, Chamba State, July 11, 1936. A potherb.

118087. No. 963.

118088. No. 962.

118007 to 118098—Continued.

118089. *VIBURNUM* sp. *Caprifoliaceae.*

No. 941. From Kukti, Chamba State, July 4, 1936, at 9,000 feet altitude. A shrub 7 feet high, with attractive white to pink flowers which appear as the snow begins to melt. The flowers have a pleasant scent, like that of trailing-arbutus.

118090. *VIBURNUM* sp. *Caprifoliaceae.*

No. 1009. From Pir Pinjal, Kashmir, June 16, 1936, at 9,000 feet altitude. Shrubs 5 feet high, said to have fragrant pink flowers borne early in the spring.

118091 and 118092. *VICIA FABA* L. *Faba-*  
*ceae.* **Broadbean.**

From the bazar at Srinagar, Kashmir, July 23, 1936; a form used dry, like pigeonpeas.

118091. No. 1033. 118092. No. 1034.

118093 to 118095. *VIGNA CYLINDRICA*  
(Stickm.) Skeels. *Fabaceae.* **Catjang.**

118093. No. 1026. *Wair mut.* From Srinagar, Kashmir, July 23, 1936. Used as green pods and dried beans.

118094. No. 973. From Chamba, Chamba State, July 12, 1936. Said to be a climbing bean with long edible pods.

118095. No. 1025. *Wair mut* or *loba*. From Srinagar, Kashmir, July 23, 1936. A climbing bean with edible pods 18 inches long. The beans are also used dried.

118096 to 118098. *VIOLA* spp. *Violaceae.*

118096. *VIOLA* sp.

No. 942. From Kukti, Chamba State, July 5, 1936.

118097. *VIOLA* sp.

No. 947. From Hursar, Chamba State, July 5, 1936.

118098. *VIOLA* sp.

No. 951. From Brahmaur, Chamba State, July 7, 1936.

118099 and 118100.

From Brazil. Seeds presented by J. W. T. Duvel. Commodity Exchange Administration. United States Department of Agriculture. Received September 26, 1936.

118099. *ASTROCARYUM TUCUMA* Mart.  
*Phoenicaceae.* **Palm.**

For previous introduction see 97803.

118100. *ORBIGNYA* sp. *Phoenicaceae.* **Palm.**

The orbignyas are oil-bearing palms, native to the northern part of South America.

118101 to 118104.

From India. Bulbs and seeds collected by Walter Koelz, Bureau of Plant Industry. Received September 15, 1936.

118101. *ALLIUM SATIVUM* L. *Liliaceae.*  
**Garlic.**

No. 1036. *Rohan.* Bulbs from the Srinagar bazar, Kashmir, July 23, 1936. Said to be locally grown.

118102. *NELUMBO NUCIFERA* Gaertn.  
*Nymphaeaceae.* **Hindu lotus.**

No. 1044. *Pamposh.* From Srinagar, Kashmir, July 27, 1936.

## 118101 to 118104—Continued.

118103. *NYMPHAEA ALBA* L. Nymphaeaceae. European white waterlily.

No. 1041. *Buimposh*. Seeds from Dal Lake, Kashmir, at 5,200 feet altitude. The flowers are dainty, white, and the largest are 2 inches across.

118104. *NYMPHAEA* sp. Nymphaeaceae.

No. 1042. *Buimposh*. Seeds from Dal Lake, Kashmir, at 5,200 feet altitude. This plant is considered identical with No. 1041 [P. I. 118103], but the seeds are red instead of blackish and have no gelatinous envelope.

118105 to 118181. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

From Venezuela. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received September 28, 1936.

118105 to 118106. From the Valle de la Pascua, Guárico, July 25, 1936.

118105. No. 176. 118107. No. 178.

118106. No. 177. 118108. No. 179.

118109. No. 180. From La Mal Querida, Guárico, July 26, 1936.

118110. No. 181. From Santa Maria de Ipire, Guárico, July 27, 1936.

118111. No. 182. *Guácharo*. From Paria-guan, Anzoategui, July 27, 1936.

118112. No. 183. From Canraura, Anzoategui, between 250 m. and 300 m. altitude, July 28, 1936.

118113. No. 184. *Rabo de gallo*. From El Purgatorio, Monagas, at 380 m. altitude, July 28, 1936.

118114 and 118115. From Bejucuales, near Caicara, Monagas, at 200 m. altitude, August 1, 1936.

118114. No. 185. *Puya*.

118115. No. 186. *Guácharo*.

118116. No. 187. *Tabaco negro*. From Caicara, Monagas, at 200 m. altitude, August 2, 1936.

118117 and 118118. From San Félix, Monagas, at 250 m. altitude, August 2, 1936.

118117. No. 188. *Tabaco blanco*.

118118. No. 189. *Tabaco negro*.

118119 and 118120. From Las Merellas, near San Félix, Monagas, August 2, 1936, at 250 m. altitude.

118119. No. 190. 118120. No. 191.

118121. No. 192. *Puya*. From San Félix, Monagas, at 250 m. altitude, August 2, 1936.

118122. No. 197. *Zambo*. From the Colorado River near San Antonio, Monagas, August 3, 1936, at 250 m. altitude.

118123. No. 198. *Zambo calado*. From near San Antonio, Monagas, August 3, 1936, at 250 m. altitude.

118124 and 118125. From La Fantasma, near San Antonio, Monagas, at 250 m. altitude, August 3, 1936.

118124. No. 199. *Tabaco negro*.

118125. No. 200. *Tabaco blanco*.

118126. No. 201. From La Soledad, south of San Antonio, on the way to Cumanao, at 250 m. altitude, August 3, 1936.

## 118105 to 118181—Continued.

118127 and 118128. *Tabaco negro*. From Clavellines, near Santa Cruz, Sucre, at 250 m. altitude, August 8, 1936.

118127. No. 202. 118128. No. 203.

118129. No. 204. *Tabaco negro*. From Los Cavimpos, near Santa Maria, Sucre, at 300 m. altitude, August 8, 1936.

118130. No. 205. *Tabaco negro*. From Sabana de Piedras, Sucre, at 1,000 m. altitude, August 9, 1936.

118131. No. 206. *Tabaco negro*. From Cueva del Guácharo, near Caripe, Monagas, at 950 m. altitude, August 10, 1936.

118132 and 118133. *Guácharo*. From Guácharo, Monagas, at 800 m. altitude, August 10, 1936.

118132. No. 207. 118133. No. 208.

118134 to 118137. From Amanitas, near Caripe, Monagas, at 750 m. altitude, August 11, 1936.

118134. No. 209. *Tabaco negro*.

118135. No. 210. *Zambo calado*.

118136. No. 211. *Guácharo*.

118137. No. 212. *Tabaco negro*.

118138. No. 213. *Tabaco negro*. From Boqueron, near San Agustín, Sucre, at 1,000 m. altitude, August 11, 1936.

118139 and 118140. From Santa Maria, Sucre, at 300 m. altitude, August 11, 1936.

118139. No. 214. *Guácharo*.

118140. No. 215. *Tabaco negro*.

118141. No. 216. *Urucoa*. From Santa Cruz, at 250 m. altitude, August 12, 1936.

118142 and 118143. *Tabaco negro*. From El Toro, near Santa Cruz, Sucre, at 260 m. altitude, August 12, 1936.

118142. No. 217. 118143. No. 218.

118144 and 118145. *Tabaco negro*. From Catuaro, Sucre, at 340 m. altitude, August 12, 1936.

118144. No. 219. 118145. No. 220.

118146. No. 221. *Tabaco negro*. From La Horquita, near Catuaro, Sucre, at 330 m. altitude, August 12, 1936.

118147 and 118148. From Caigüire, near Cumanao, Sucre, at 220 m. altitude, August 19, 1936.

118147. No. 220. *Tabaco negro*.

118148. No. 223. *Tabaco negro* or *Salom*.

118149 to 118151. From La Rinconada, near Cumanao, Sucre, at 230 m., August 19, 1936.

118149. No. 224.

118150. No. 225. *Tabaco blanco*.

118151. No. 226. *Tabaco negro*.

118152. No. 227. *Cota de gallo*. From Los Altos, near Barcelona, Anzoategui, at 600 m. altitude, August 11, 1936.

118153. No. 228. *Cubano*. From Pachquito, near Piritu, Anzoategui, at 120 m. altitude, August 11, 1936.

118105 to 118181—Continued.

- 118154 to 118157. From Guanape, Anzoategui, August 15 and 16, 1936, at 180 m. altitude.
118154. No. 229. *Gacho*.
118155. No. 230. *Virginia*.
118156. No. 231. *Caraqueño*.
118157. No. 232. *Uvero*.
- 118158 and 118159. *Rabo de gallo*. From El Guamo, near Guanape, Anzoategui, at 110 m. altitude, August 15, 1936.
118158. No. 233. 118159. No. 234.
118160. No. 235. *Rabo de gallo* and *Virginia*. From Campo Alegre near El Valle, Anzoategui, at 140 m. altitude, August 15, 1936.
118161. No. 236. *Capadare*. From Las Cruces, near El Valle, Anzoategui, at 280 m. altitude, August 15, 1936.
118162. No. 237. *Capadare* and *Virginia*. From Santa Rosa, near El Valle, Anzoategui, at 237 m. altitude, August 15, 1936.
- 118163 to 118166. From El Placer, near El Valle, Anzoategui, from 260 to 270 m. altitude, August 16, 1936.
118163. No. 238. *Cubano*.
118164. No. 239. *Cubano*.
118165. No. 240. *Capadare*.
118166. No. 241. *Cubano*.
- 118167 and 118168. From La Chaguarama, near El Valle, at 280 m. altitude, August 16, 1936.
118167. No. 242. *Capadare* and *Rabo de gallo*.
118168. No. 243. *Uvero*, *Caujaro*, and *Capadare*.
- 118169 to 118171. From San José de Guárico, August 16, 1936, at 260 m. altitude.
118169. No. 244. *Caujaro*, *Pailon*, *Gacho*, and *Rabo de gallo*.
118170. No. 245. *Psilon*.
118171. No. 246. *Caujaro*.
118172. No. 247. A locally grown strain. From El Guamo, near Guanape, Anzoategui, at 160 m. altitude, August 17, 1936.
118173. No. 248. From El Chaparral, near Guanta, Anzoategui, at 160 m. altitude, August 20, 1936.
118174. No. 249. A mixture of No. 227 and No. 228.
- 118175 to 118177. From Cocoyal, near San Antonio, Monagas, at 1,500 m. altitude, August 21, 1936.
118175. No. 250. *Tabaco negro*.
118176. No. 251. *Tabaco negro*.
118177. No. 252. *Guácharo*.
118178. No. 253. *Tabaco negro*. From El Hato de la Cuesta, near San Antonio, at 1,500 m. altitude, August 21, 1936.
- 118179 and 118180. From Guanaguana, Monagas, at 440 m. altitude, August 22, 1936.
118179. No. 254. *Guácharo*.
118180. No. 255. *Tabaco común*.

118105 to 118181—Continued.

118181. No. 256. A mixed sample.
118182. *SACCHARUM OFFICINARUM L.* Poaceae. **Sugarcane.**  
From Papeete, Tahiti, Society Islands. Cuttings obtained through the Division of Sugar Investigation, Bureau of Plant Industry. Received September 29, 1936.  
*Rutu.*
118183. *PHOENIX HANCEANA Naudin.* Phoenicaceae. **Date palm.**  
From Japan. Seeds presented by Prof. Tyōzaburō Tanaka, Taihoku Imperial University, Taiwan. Received September 24, 1936.  
A Chinese relative of the date palm which has short, tufted stems and pinnate foliage. For previous introduction see 101094.
118184. *AMYGDALUS PERSICA L.* Amygdalaceae. **Peach.**  
From China. Seeds presented by Miss B. C. Patterson, Tenghsien, Shantung. Received September 24, 1936.  
A wild peach which becomes a tree 35 feet high, with fruits little larger than a cherry.
- 118185 to 118356.  
From Brazil. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received September 21, 1936.  
Unless otherwise stated, these were all purchased in seed stores in São Paulo, August 28, 1936.
- 118185 to 118191. *ALLIUM CEPA L.* Liliaceae. **Onion.**
118185. No. 3818. *Cebola branca Italiana.*
118186. No. 3819. *Cebolas do Rio Grande.*
118187. No. 3820. *Cebola vermelha das Canarias.*
118188. No. 3821. *Cebola das Canarias amarella.*
118189. No. 3822. *Cebola branca rainha.* Used for pickling.
118190. No. 3834. *Cebola piriforme do Rio Grande.* Seeds grown on the island of Tenerife, Canary Islands.
118191. No. 3935. *Cebola do Rio Grande*, grown in Brazil.
118192. *ALLIUM PORRUM L.* Liliaceae. **Leek.**  
No. 3823. *Cebolinha de todo anno.*
- 118193 to 118196. *APIUM GRAVEOLENS L.* Apiaceae. **Celery.**
118193. No. 3894. *Aipo salsaõ branco cheio da America.* Seeds grown on the island of Tenerife, Canary Islands.
118194. No. 3792. *Salsaõ aipo branco cheio.*
118195. No. 3893. *Aipo salsaõ tronchudo sem rival.*
118196. No. 3791. *Aipo rabano tronchudo.*

## 118185 to 118356—Continued.

- 118197 to 118201. *ARACHIS HYPOGAEA* L.  
Fabaceae. **Peanut.**
118197. No. 3741. From a farm south of São Paulo, August 26, 1936. Pods small, integument black, seeds short, ovoid.
118198. No. 3936. *Jumbo*. From the Instituto Biologico, São Paulo, August 28, 1936.
- 118199 to 118201. *Tatu*. From São Miguel, south of São Paulo, August 26, 1936.
118199. No. 3742.
118200. No. 3743.
118201. No. 3744.
118202. *ASPARAGUS OFFICINALIS* L. Con-  
vallariaceae. **Garden asparagus.**  
No. 3881. *Espargo da Espanha*.
- 118203 and 118204. *BETA VULGARIS* L.  
Chenopodiaceae. **Common beet.**
118203. No. 3759. *Beteraba vermelha*.
118204. No. 3760. *Beteraba redondo vermelha*.
118205. *BETA VULGARIS CICLA* L. Chenopodiaceae. **Swiss chard.**  
No. 3830. *Acelga branca tronchuda*.
- 118206 to 118250. *BRASSICA* spp. Brassicaceae.
118206. *BRASSICA CAMPESTRIS* L.  
**Rutabaga.**  
No. 3788. *Nabo japonex*.
- 118207 to 118210. *BRASSICA JUNCEA* (L.)  
Coss. **Chinese mustard.**
118207. No. 3816. *Mostarda Lisa da China*.
- 118208 and 118209. Grown on the island of Tenerife, Canary Islands.
118208. No. 3817. *Mostarda crespa da China*.
118209. No. 3853. *Mostarda da China de folhas de couve*.
118210. No. 3854. *Mostarda crespa da China*.
- 118211 to 118219. *BRASSICA OLERACEA*  
*BOTRYTIS* L.
118211. No. 3777. *Couve brocoli roxo*. Broccoli.
118212. No. 3778. *Couve brocoli branco*. Broccoli.
118213. No. 3779. *Couve flor d'Algeria*. Cauliflower.
118214. No. 3780. *Couve flor gigante de Napoles*. Cauliflower.
118215. No. 3781. *Couve flor lenormand*. Cauliflower.
118216. No. 3782. *Couve flor especial S. Pasqual*. Cauliflower.
- Nos. 118217 to 118219 were grown on the island of Tenerife, Canary Islands.
118217. No. 3855. *Couve flor gigante Catalana*. Cauliflower.
118218. No. 3856. *Couve flor de inverno*, or *Couve brocoli de curto branco monstruoso*. Cauliflower.
118219. No. 3857. *Couve flor alva costal*. Cauliflower.

## 118185 to 118356—Continued.

- 118220 to 118232. *BRASSICA OLERACEA*  
*CAPITATA* L. **Cabbage.**
- Said to be imported seed.
118220. No. 3776. *Couve tronchuda Portuguesa*.
118221. No. 3797. *Repolho schwenfurt*.
118222. No. 3798. *Repolho grespo grande de milão*.
118223. No. 3799. *Repolho quarentino crespo*.
118224. No. 3800. *Repolho roxo grande*.
118225. No. 3801. *Repolho Saint-Denis*.
118226. No. 3802. *Repolho grande coração de boi*.
118227. No. 3803. *Repolho chato da Hollanda*.
118228. No. 3804. *Repolho allemão branco*.
118229. No. 3805. *Repolho chato do quinta*.
118230. No. 3842. *Repolho de 7 semanas*.
118231. No. 3874. *Repolho volumoso das Canarias*.
118232. No. 3930. *Couve tronchuda Portuguesa*.
- 118233 to 118235. *BRASSICA OLERACEA*  
*VIRIDIS* L. **Collard.**
118233. No. 3775. *Couve de todo anno*. Said to be imported; used in colder climates as forage and greens.
118234. No. 3827. *Couve gallega de folha larga*.
118235. No. 3931. *Couve manteiga*.
- 118236 and 118237. *BRASSICA PEKINENSIS*  
(Lour.) Rupr. **Petsal.**
- Seed grown on the island of Tenerife, Canary Islands.
118236. No. 3895. *Couve Chosen*.
118237. No. 3896. *Couve chakushina*.
- 118238 to 118246. *BRASSICA RAPA* L.  
**Turnip.**
- Seeds said to be imported.
118238. No. 3783. *Nabo branco meio comprido*.
118239. No. 3784. *Nabo amarelo de milão*.
118240. No. 3785. *Nabo chato branco Francez*.
118241. No. 3786. *Nabica de terra*.
118242. No. 3871. *Nabo do Japão*.
118243. No. 3902. *Nabo branco chato tennoji*.
118244. No. 3903. *Nabo branco chato shogoin*.
118245. No. 3904. *Nabo branco tokinashi*.
118246. No. 3787. *Couve nabo branco*.

118185 to 118356—Continued.

- 118247 to 118250. BRASSICA OLERACEA  
GONGYLODES L. Kohlrabi.
- Nos. 118247 and 118248 were said to be imported seed.
118247. No. 3789. *Couve rabano branco.*
118248. No. 3790. *Couve rabano rôxo.*
- Nos. 118249 and 118250 were grown on the island of Tenerife, Canary Islands.
118249. No. 3872. *Couve rabano rôxo goliath.*
118250. No. 3873. *Couve rabano branco.*
- 118251 to 118259. CAPSICUM ANNUM L. Solanaceae. Common redpepper.
118251. No. 3761. *Pimentão doce monstroso.*
118252. No. 3762. *Pimentão doce quadrado.*
118253. No. 3763. *Pimentão doce de hespanha.*
118254. No. 3764. *Pimenta cayenna forte.*
- Nos. 118255 to 118259 were grown on the island of Tenerife, Canary Islands.
118255. No. 3863. *Pimentão doce grande amarello ouro.*
118256. No. 3864. *Pimenta ou pimentão grande commum.*
118257. No. 3865. *Pimenta cereja.*
118258. No. 3866. *Pimenta malagueta do Chile.*
118259. No. 3867. *Pimenta cayenna.*
- 118260 to 118263. CICHORIUM ENDIVIA L. Cichoriaceae. Endive.
118260. No. 3773. *Chicoria lisa escarola.*
118261. No. 3907. *Almeirão de folha larga verde erecta.*
118262. No. 3908. *Almeirão pão de asucar.*
118263. No. 3769. *Chicoria crespa branca.*
- 118264 to 118267. CICHORIUM INTYBUS L. Cichoriaceae. Chicory.
118264. No. 3770. *Chicoria rôxa Italiana.*
118265. No. 3771. *Chicoria amarga de raiz.*
118266. No. 3772. *Chicoria amarga.*
118267. No. 3828. *Almeirão de folha larga (radicchio).*
118268. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.
- No. 3862. *Melancia americana de Santa Barbara.* Seeds grown in Brazil.
118269. CRAMBES MARITIMA L. Brassicaceae. Common sea-kale.
- No. 3906. *Couve maritima.* From the island of Tenerife, Canary Islands.

118185 to 118356—Continued.

- 118270 to 118283. CUCUMIS spp. Cucurbitaceae.
- 118270 to 118276. CUCUMIS MELO L. Muskmelon.
118270. No. 3749. *Melão cavailon (casca amarella).*
118271. No. 3752. *Melão (cascade carvalho).*
118272. No. 3753. *Melão cantaloup.*
118273. No. 3859. *Melão maravilha das canarias.*
118274. No. 3860. *Melão grande Prescott.*
118275. No. 3861. *Melão precoce d'Algeria.*
118276. No. 3929. *Melão casca de carvalho.*
- 118277 to 118283. CUCUMIS SATIVUS L. Cucumber.
118277. No. 3750. *Pepino pequeno para conserva.*
118278. No. 3751. *Pepino Italiano verde comprido.*
118279. No. 3868. *Pepino verde comprido.*
118280. No. 3869. *Pepino cornichon para conserva.*
118281. No. 3870. *Pepino verde grande.*
118282. No. 3927. *Pepino Japonéz.*
118283. No. 3928. *Pepino verde comprido.*
- 118284 to 118296. CUCURBITA spp. Cucurbitaceae.
- 118284 to 118289. CUCURBITA MAXIMA Duchesne. Squash.
118284. No. 3824. *Abobora morango.*
118285. No. 3826. *Giraumon (Bonet de Turco).*
118286. No. 3883. *Abobora moranga verde de Espanha.*
118287. No. 3884. *Abobora moranga amarella monstruosa.*
118288. No. 3887. *Abobora moranga vermelha girimú.*
118289. No. 3889. *Abobora moranga de Portugal.*
- 118290 to 118293. CUCURBITA MOSCHATA Duchesne. Cushman.
118290. No. 3882. *Abobora menina.*
118291. No. 3888. *Abobora mala ou cheia.*
118292. No. 3890. *Abobora Argentina.*
118293. No. 3892. *Abobora assucarada do Brazil.*
- 118294 to 118296. CUCURBITA PEPO L. Pumpkin.
118294. No. 3825. *Abobrinha Italiana verde (Não lastra).*
118295. No. 3886. *Abobora verde de Canarias (Não lastra).*
118296. No. 3891. *Abobora citronella.*

## 118185 to 118356—Continued.

- 118297 and 118298. *CYNARA CARDUNCULUS* L. Asteraceae. **Cardoon.**  
 118297. No. 3832. *Cardão da Hespanha.*  
 118298. No. 3905. *Cardo da Espanha sem espinhos.*
- 118299 to 118301. *CYNARA SCOLYMUS* L. Asteraceae. **Artichoke.**  
 118299. No. 3765. *Alcachofra verde.*  
 118300. No. 3836. *Alcachofra grande verde de Leon.*  
 118301. No. 3837. *Alcachofra róxa precocce.*
118302. *DAUCUS CAROTA* L. Apiaceae. **Carrot.**  
 No. 3755. *Cenoura vermelha meia comprida.*
118303. *ERUCA SATIVA* HILL. Brassicaceae. **Roquette.**  
 No. 3774. *Rucola (Pinchão).*
118304. *FRAGARIA* sp. Rosaceae.  
 No. 3835. *Morangos costal.*
118305. *FRAGARIA* sp.  
 No. 3754. *Morangos.*
- 118306 to 118321. *LACTUCA SATIVA* L. Cichoriaceae. **Garden lettuce.**  
 118306. No. 3809-A. *Alface repolhuda Francaza.*  
 118307. No. 3810-A. *Alface repolhuda de Berlin.*  
 118308. No. 3811-A. *Alface repolhuda crespa verano.*  
 118309. No. 3812-A. *Alface repolhuda imperial.*  
 118310. No. 3813-A. *Alface romana balão.*  
 118311. No. 3814-A. *Alface romana.*  
 118312. No. 3843-A. *Alface crespa repolhuda de Batavia.*  
 118313. No. 3845-A. *Alface rosada 4 estações.*  
 118314. No. 3846-A. *Alface crespa sempre repolhuda.*  
 118315. No. 3847-A. *Alface loura repolhuda sem rival.*  
 118316. No. 3848-A. *Alface loura repolhuda das 4 estações.*  
 118317. No. 3849-A. *Alface repolhuda grioula.*  
 118318. No. 3850-A. *Alface branca repolhuda Francaza extra.*  
 118319. No. 3851-A. *Alface branca repolhuda grande de Barcelona.*  
 118320. No. 3852-A. *Alface romana balão.*  
 118321. No. 3934. *Alface repolhuda São Caetano.*
118322. *LAGENARIA LEUCANTHA* (Duchesne) Rusby. Cucurbitaceae. **Calabash gourd.**  
 No. 3885. *Abobora cabaca grande.*
118323. *LEPIDIUM SATIVUM* L. Brassicaceae. **Garden cress.**  
 No. 3831. *Agrião secco de Jardim.*

## 118185 to 118356—Continued.

- 118324 to 118328. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**  
 118324. No. 3806-A. *Tomate Rei Humberto.*  
 118325. No. 3807-A. *Tomate pera.*  
 118326. No. 3808-A. *Tomate grande liso.*  
 118327. No. 3840. *Tomate grande vermelho liso.*  
 118328. No. 3841. *Tomate grande vermelho lobado.*
- 118329 to 118331. *PASTINACA SATIVA* L. Apiaceae. **Farsnip.**  
 118329. No. 3758. *Pastinaca comprida.*  
 118330. No. 3838. *Pastinaca temporã meio curta.*  
 118331. No. 3839. *Pastinaca comprida.*
118332. *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae. **Farsley.**  
 No. 3829-A. *Salsa commum lisa.*
- 118333 and 118334. *PISUM SATIVUM* L. Fabaceae. **Pea.**  
 118333. No. 3766. *Ervilha para debrulhar.*  
 118334. No. 3767. *Ervilha maravilha (ana).*
- 118335 to 118343. *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**  
 118335. No. 3793. *Rabanete comprido rosado.*  
 118336. No. 3794. *Rabanete redondo branco.*  
 118337. No. 3795. *Rabanete meio comprido rosado.*  
 118338. No. 3796. *Rabanete preto comprido.*  
 118339. No. 3897. *Rabanete minokokonoa.*  
 118340. No. 3898. *Rabanete sakurajima.*  
 118341. No. 3899. *Rabanete tokinashi.*  
 118342. No. 3900. *Rabanete miyashigue.*  
 118343. No. 3901. *Rabanete nerima.*
118344. *RHEUM RHAPONTICUM* L. Polygonaceae. **Common rhubarb.**  
 No. 3875. *Rhuibarbo róxo melhorado.*
118345. *SCOLYMUS HISPANICUS* L. Cichoriaceae. **Spanish oysterplant.**  
 No. 3914. *Cardiño (Escolimo da Espanha).* A biennial cultivated for its edible taproot. Native to southern Europe.
- 118346 to 118348. *SOLANUM MELONGENA* L. Solanaceae. **Eggplant.**  
 118346. No. 3876. *Beringela branca (Giló).*  
 118347. No. 3877. *Beringela vermelha (Giló).*  
 118348. No. 3878. *Beringela monstruosa das Canarias.*
- 118349 and 118350. *SPINACIA OLERACEA* L. Chenopodiaceae. **Common spinach.**  
 118349. No. 3815. *Espinafre rasteiro viroflay.*  
 118350. No. 3880. *Espinafre monstruoso de viroflay.*

## 118185 to 118356—Continued.

118351. *TETRAGONIA EXPANSA* Murray.  
Aizoaceae. New Zealand spinach.  
No. 3879. *Espinafre de Nova Zelandia.*

118352 to 118354. *TRAGOPOGON PORRIFOLIUS*  
L. Cichoriaceae. Vegetable oyster.

118352. No. 3757. *Salsifis branco.*

118353. No. 3911. *Escorcionero da Espanha.*

118354. No. 3912. *Salsifis branco.*

118355. *VALERIANELLA OLITORIA* Pollich.  
Valerianaceae.

No. 3844. *Alfaca do campo verde plena.*

118356. *VICIA FABA* L. Fabaceae.  
Broadbean.

No. 3768. *Favas de sevilha.*

## 118357 to 118362.

From the Union of Soviet Socialist Republics. Seeds presented by the Director, All-Union Research Institute of Humid Subtropics, Sukhum, Transcaucasus. Received September 23, 1936.

118357. *ACER CAPPADOCICUM* Gleditsch.  
Aceraceae. Coliseum maple.

A tree which becomes 50 feet high, native to the Caucasus region and eastward to western China. The five- to seven-lobed, cordate leaves are 3 to 6 inches wide, and the greenish yellow flowers, in upright corymbs, are followed by spreading winged fruits.

For previous introduction see 98308.

118358. *ACER VELUTINUM* Boiss. Aceraceae.  
Maple.

A large tree with deeply cordate leaves, 5 to 10 inches across, having coarsely crenate-serrate lobes. The flowers are borne in large erect panicles. It is native to the Caucasus region and northern Iran (Persia).

For previous introduction see 95564.

118359. *ALNUS GLUTINOSA BARBATA* (C. A. Mey.) Ledeb. Betulaceae.

An alder up to about 75 feet high, of narrow pyramidal habit with dark-green, ovate-oblong leaves. Native to the Caucasus region.

118360. *GLEDITSIA CASPICA* Desf. Caesalpinaceae.  
Honeylocust.

A very spiny tree, 30 to 40 feet high, the spines branched and slightly flattened, 6 inches or more long. The pinnate or bipinnate leaves are 6 to 10 inches long, and the green flowers, almost sessile, are in dense downy racemes 2 to 4 inches long. The scimitar-shaped pods are about 8 inches long and 1 inch wide. Native to northern Iran (Persia).

For previous introduction see 42777.

118361. *PABROTTA PERSICA* (DC.) Meyer.  
Hamamelidaceae.

A shrub or small tree up to 15 feet high, with spreading branches and ovate-oblong, coarsely crenate leaves, 3 to 4 inches long, which turn scarlet, yellow, and orange in the autumn and remain on the branches a long time. The flower heads, which appear in March before the leaves, are rather inconspicuous except for the pendent purple stamens; the ovoid fruits are half an inch long with two recurved lobes. Native to Iran (Persia).

For previous introduction see 81354.

## 118357 to 118362—Continued.

118362. *PTEROCARYA FRAXINIFOLIA* (Lam.)  
Spach. Juglandaceae.  
Caucasian wingnut.

A handsome spreading tree which becomes 60 feet high, with attractive dark-green pinnate leaves about 1 foot long. It is native to the Caucasus region.

For previous introduction see 74596.

118363. *HIBISCUS* sp. Malvaceae.

From Argentina. Seeds presented by Dr. Arturo Donat, Botanico del Parque Nacional de Nahuel Huapi, Bariloche, Rio Negro. Received September 28, 1936.

Seeds from a plant growing near Napalpi, Chaco, in a nearly dried swamp, and apparently very rare in that region.

## 118364 to 118402.

From Brazil. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received September 19, 1936.

Unless otherwise mentioned, all of this material was purchased in seed stores in São Paulo, August 28, 1936.

118364. *ALSTROEMERIA* sp. Amaryllidaceae.

No. 3947. Presented by Dr. F. C. Hoehne, Instituto Biológico, São Paulo, August 28, 1936. Received as *Alstroemeria insignis* Kraenzl, an invalid name.

118365. *ANTERISCUS CEREFOLIUM* (L.)  
Hoffm. Apiaceae. Chervil.

No. 3918. *Cerefolio commum.*

118366. *ARAUJIA SERICIFERA* Brot. Asclepiadaceae.

No. 3945. A twining vine with nearly glabrous, oblong-acuminate leaves 3 inches long and cymes of faintly odorless, saucer-shaped white flowers, which are pale rose in bud. Native to southern Brazil, where the fiber around the seed is used locally in the manufacture of paper.

For previous introduction see 88685.

118367. *ARISTOLOCHIA ARCUATA* Mast.  
Aristolochiaceae.

No. 3950. From the Instituto Biológico, São Paulo, August 28, 1936. A perennial twiner with membranous, deltoid-ovate leaves 2 to 4 inches long and large solitary axillary brownish flowers. Native to east-central Brazil.

118368. *ARTEMISIA ABSINTHIUM* L. Asteraceae.  
Common wormwood.

No. 3910. *Losna. (Absinthio officinal.)*  
A cultivated herb.

118369. *BOMBAX CYATHOPHORUM* (Casar.)  
K. Scum. Bombacaceae.

No. 3943. From the Instituto Biológico, São Paulo, August 28, 1936. An ornamental tree up to about 20 feet high, with digitate leaves, the oblong leaflets 4 to 6 inches long, and showy flowers about 7 inches long. A kapoklike fiber is obtained from the pods. Native to Brazil.

118370. *BORAGO OFFICINALIS* L. Boraginaceae.  
Common borage.

No. 3916. *Borragem. (Borraja da Espanha.)*

## 118364 to 118402—Continued.

118371. *BYRSONIMA LIGUSTERIFOLIA* A. Juss.  
Malpighiaceae.

No. 3956. An evergreen tree about 20 feet high, with leathery oblong or lanceolate leaves about 2 inches long and terminal racemes of small rose-colored flowers. Native to Brazil.

118372. *CARPOTRACHE BRASILIENSIS* (Raddi) Endl. Flacourtiaceae.  
Sapucainha.

No. 3941. A tropical tree 30 to 50 feet high, with oblong leaves about 4 inches long and few-flowered racemes of small white flowers. The fruits are about 4 inches in diameter. A sirup used in treating leprosy is prepared from the seeds.

For previous introduction see 103624.

118373. *CHAEROPHYLLUM BULBOSUM* L.  
Apiaceae. Turnip-chervil.

No. 3917. *Cerafolio bulboso*.

For previous introduction see 29816.

118374. *CHORISIA SPECIOSA* St. Hil. Bombacaceae.  
Floss-silk-tree.

No. 3926. *Paineiro*. A timber tree; the floss from the seed pods is used locally like kapok.

For previous introduction see 104108.

118375. *CUPRESSUS* sp. Pinaceae.

No. 3925. *Cedrinho*.

118376. *RHYNCHOSIA MINIMA* (L.) DC.  
Fabaceae.

No. 3953. From the Instituto Biologico, São Paulo, August 28, 1936.

118377. *RHYNCHOSIA PHASEOLOIDES* (Sw.) DC. Fabaceae.

No. 3954. From the Instituto Biologico, São Paulo, August 28, 1936.

118378. *RHYNCHOSIA RETICULATA* (Sw.) DC. Fabaceae.

No. 3955. From the Instituto Biologico, São Paulo, August 28, 1936.

118379. *ERYTHRINA RETICULATA* Presl.  
Fabaceae.

No. 3952. From the Instituto Biologico, São Paulo, August 28, 1936. A spiny shrub up to 6 feet high, with leathery leaves of three leaflets and showy scarlet flowers in erect racemes about 5 inches long. It is used as an ornamental hedge plant in Brazil, where it is native.

118380 to 118383. *EUCALYPTUS* spp. Myrtaceae.

118380. *EUCALYPTUS BOTRYOIDES* J. E. Smith.  
Bangalay.

No. 3924. A tall handsome tree, native to Australia, with beautiful dark-green horizontal lanceolate leaves, umbels of small sessile white flowers, and obovate fruits. Used in Australia as a windbreak and as a shade tree. The wood is hard, tough, and durable.

For previous introduction see 77609.

118381. *EUCALYPTUS LONGIFOLIA* Link.

No. 3922.

## 118364 to 118402—Continued.

118382. *EUCALYPTUS LONGIROSTRIS* F. Muell.  
Creek gum.

No. 3923. In Australia, where this tree is native, it becomes 200 feet high, with smooth dark-gray bark, narrowly lanceolate leaves 6 inches or more long, stalked umbels of small white 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 77610.

118383. *EUCALYPTUS TERETICORNIS* J. E. Smith.  
Slaty gum.

No. 3921. This evergreen tree is usually not more than 100 feet high in Australia, where it is native. It is closely related to *Eucalyptus longirostris*, differing only in minor botanical characteristics.

For previous introduction see 50347.

118384. *FOENICULUM VULGARE* Hill. Apiaceae.  
Fennel.

No. 3756. *Funcho (Herva doce)*.

118385. *HIPPEASTRUM ALLICUM ROBUSTUM* (A. Dietr.) Voss. Amaryllidaceae.

No. 3940. From the Instituto Biologico, São Paulo, August 28, 1936. A variety which is distinguished by its more vigorous growth and broader perianth segments. The large crimson flowers are produced in spring and autumn. Native to Brazil.

118386. *HUBERIA SEMISERRATA* DC. Melastomaceae.

No. 3944. From the Instituto Biologico, São Paulo, August 28, 1936. An ornamental shrub or small tree with leathery lanceolate or ovate-lanceolate leaves about 4 inches long and small white flowers. Native to Brazil.

118387. *LUPINUS* sp. Fabaceae.

No. 3932. An annual lupine.

118388. *MAYTENUS ALATERNOIDES ANGUSTIFOLIA* Reiss. Celastraceae.

No. 3946. From the Instituto Biologico, São Paulo, August 28, 1936. An evergreen shrub or small tree with narrow-lanceolate or oblong leaves 1½ to 3 inches long and small whitish flowers. Native to Brazil.

118389. *MELINIS MINUTIFLORA* Beauv.  
Poaceae. Molasses grass.

No. 3748. *Capim catiguero*.

118390. *MIMOSA BRACAATINGA* Hoehne.  
Mimosaceae.

No. 3937. From the Instituto Biologico, São Paulo, August 28, 1936.

For previous introduction see 92939.

118391. *NICOTIANA TABACUM* L. Solanaceae.  
Common tobacco.

No. 3745. Volunteer tobacco, collected in a vacant lot in São Paulo, August 28, 1936.

118392. *NICOTIANA LANGSDORFII* Schrank.  
Solanaceae. Tobacco.

No. 3746. Presented by Ricardo Azzi, Seccão de Fumo, Secretaria de Agricultura; grown in Pico de Yaragua, Serra da Mantiqueira.



## 118364 to 118402—Continued.

118393. *OCIMUM BASILICUM* L. *Mentha-*  
*ceae.* Common basil.

No. 3833. *Mangericão* (Basilico).

118394. *PIMPINELLA ANISUM* L. *Aplacae.*  
*Anise.*

No. 3915. *Aniz verde.*

118395. *PAULLINIA TRIGONIA* Vell. *Sapin-*  
*daceae.*

No. 3948. From the Instituto Biologico, São Paulo, August 28, 1936. A climbing evergreen shrub with biternate, rarely pinnate leaves and clusters of small white flowers. Native to Brazil.

118396. *PHOENIX SPINOSA* Schum. *Phoe-*  
*nicaceae.* Palm.

No. 3747. From one of the city parks, São Paulo, August 28, 1936. A bushy or a small erect arborescent palm up to 20 feet high, with less spiny leaves and much smaller fruits than those of *Phoenix dactylifera*. Native to tropical Africa.

118397. *RUMEX ACETOSA* L. *Polygonaceae.*

No. 3913. *Azeda de folha larga.*

118398. *SALVIA OFFICINALIS* L. *Mentha-*  
*ceae.* Garden sage.

No. 3909. *Salvia vivaz.*

118399. *SATUREJA HORTENSIS* L. *Mentha-*  
*ceae.* Summer savory.

No. 3858. *Segurelha das hortas.*

118400. *SERJANIA RETICULATA* Cambess.  
*Sapindaceae.*

No. 3949. From the Instituto Biologico, São Paulo, August 28, 1936. A climbing shrub with biternate, evergreen leaves and small white flowers, solitary or in compound racemes. Native to Brazil.

## 118364 to 118402—Continued.

118401. *TABEBUIA IPE* (Mart.) Standl.  
*Bignoniaceae.*

No. 3939. From the Instituto Biologico, São Paulo, August 28, 1936. A large Brazilian tree, with digitate leaves and showy red flowers in terminal clusters.

118402. *MYROXYLON PEREIRA* (Royle)  
Klotzsch. *Fabaceae.* Balsam-of-Peru.

No. 3942. From the Instituto Biologico, São Paulo, August 28, 1936. A handsome leguminous tree with glossy green pinnate leaves and racemes of white flowers. The balsam-of-Peru of commerce is obtained from the lower part of the trunk.

For previous introduction see 104163.

## 118403 to 118410.

From Venezuela. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received September 25, 1936.

118403 to 118409. *LYCOPERSICON ESCULEN-*  
*TUM* Mill. *Solanaceae.* Tomato.

118403. From Rio Colorado, Monagas,  
August 3, 1936.

118404. From Bejucal, near Monagas,  
August 1, 1936.

118405. From Muelle de Cariaco, State  
of Sucre.

118406. From Cumaná, State of Sucre,  
August 5, 1936.

118407. From Las Mercedes, Guárico,  
July 25, 1936.

118408. From Cantaura, Anzoategui,  
July 28, 1936.

118409. From Muelle de Cariaco, State  
of Sucre, August 12, 1936.

118410. *SOLANUM MELONGENA* L. *Solana-*  
*ceae.* Eggplant.

From Las Mercedes, Guárico, July 25,  
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