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Plant Inventory No. 134

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D. C. November 1949



PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY,¹ JANUARY 1 TO MARCH 31, 1938 (Nos. 126494 to 128322)

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INTRODUCTORY STATEMENT

This inventory, No. 134, is a record of the plant material (Nos. 126494 to 128322) received by the Division of Plant Exploration and Introduction during the period from January 1 to March 31, 1938.

The extended comments on the agricultural explorations of H. L. Blood in South America and Walter Koelz in Afghanistan and India, included in the introduction to Inventory No. 133, may well apply to this inventory also; for a large proportion of the plant materials received during this period is the result of the continuing activity of the two agricultural explorers mentioned, and the nature of the material received was very largely the same.

With the special object of furnishing working material for corn breeders in the semiarid Southwest, four lots of locally developed varieties were introduced from Peru and Bolivia (*Zea mays*; Nos. 127717-127724, 127762-127770, 127892-127898, and 127901-127904).

This inventory has been prepared under the supervision of Paul Russell, who has checked or identified the incoming seed materials and has verified the botanical nomenclature and descriptive notes.

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

INVENTORY

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.

126494 to 126509.

From France. Plants purchased from Pépinières de La Maladrerie, Caen. Received January 17, 1948.

126494 to 126503. MALUS SYLVESTRIS Mill.	Malaceae.	Apple.
126494. <i>Belle d'Avril</i> .	126499. <i>Passe Pomme Rouge</i> .	
126495. <i>Belle Impériale</i> .	126500. <i>Reinette de Bailleul</i> .	
126496. <i>Belle Joséphine</i> .	126501. <i>Reinette d'Espagne</i> .	
126497. <i>Cadeau du Général</i> .	126502. <i>Reinette de Granville</i> .	
126498. <i>Ma Pomme</i> .	126503. <i>Warner's King</i> .	

126504. PRUNUS AVIUM L.	Amygdalaceae.	Sweet cherry.
<i>Bigarreau Noir d'Ecully</i> .		

126505 and 126506. PRUNUS CERASUS L.	Amygdalaceae.	Sour cherry.
126505. <i>Cerise du Nord</i> .		

126506. *Cerise Magnifique de Sceaux*.

126507 to 126509. PYRUS COMMUNIS L.	Malaceae.	Common pear.
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126507. <i>André Desportes</i> .	126509. <i>Beurré de Naghin</i> .
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126508. *Beurré d'Angleterre*.

126510 to 126521.

From Germany. Seeds presented by G. Kettermann, Freising. Received January 10, 1938.

126510. AGROSTIS ALBA L.	Poaceae.	Redtop.
126511. DACTYLIS GLOMERATA L.	Poaceae.	Orchard grass.
126512. FESTUCA ELATIOR L.	Poaceae.	Meadow fescue.
126513. FESTUCA RUBRA L.	Poaceae.	Red fescue.
126514. LOLIUM PERENNE L.	Poaceae.	Perennial ryegrass.
126515. MEDICAGO SATIVA L.	Fabaceae.	Alfalfa.
126516. PHALARIS ARUNDINACEA L.	Poaceae.	Reed canary grass.
126517. PHLEUM PRATENSE L.	Poaceae.	Timothy.
126518. PHLEUM PRATENSIS L.	Poaceae.	Kentucky bluegrass.
126521. TRIFOLIUM spp.	Fabaceae.	Clover.
126522. TRIFOLIUM HYBRIDIUM L.		Alsike clover.
126523. TRIFOLIUM PRATENSE L.		Red clover.
126524. TRIFOLIUM REPENS L.		White clover.

126522. ANTIDESMA PLATYPHYLLUM H. Mann. Euphorbiaceae.

From Cuba. Seeds presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received January 13, 1938.

An evergreen tree 20 to 30 feet high, native to the Hawaiian Islands. The rather stiff, ovate to obovate leaves are 3 to 5 inches long, and the inconspicuous flowers are followed by compressed, suboblique reddish fruits about $\frac{1}{8}$ inch long.

For previous introduction see 124982.

126523 to 126534.

From Austria. Seeds purchased from Grünwald & Co., Wiener-Neustadt. January 12, 1938.

126523 to 126531. PRUNUS spp. Amygdalaceae.

126523. PRUNUS AVIUM L.

Mazzard cherry.

From Austria.

126524 to 126527. PRUNUS AVIUM L.

Sweet cherry.

Var. *Sylvestris*.

126524. From Poland.

126526. From Bulgaria.

126525. From Czechoslovakia.

126527. From Austria.

126528 and 126529. PRUNUS MAHALEB L.

Mahaleb cherry.

126528. From Dalmatia.

126529. From France.

126530 and 126531. PRUNUS DOMESTICA L.

Common plum.

126530. The common type found in Austria.

126531. Var. *Juliana*.

126532 to 126534. PYRUS spp. Malaceae.

126532 and 126533. PYRUS COMMUNIS L.

Common pear.

126532. From grafted trees.

126533. [No data.]

126534. PYRUS USSURIENSIS Maxim.

Ussurian pear.

126535. SENECIO SALIGNUS DC. Asteraceae.

From Arizona. Seeds presented by F. Gibson, Director, Boyce Thompson Southwestern Arboretum, Superior. Received January 18, 1938.

Seed from plants growing in the arboretum, but native from the southwestern United States through Mexico and Guatemala. A glabrous shrub 4 to 8 feet high; the narrowly lanceolate, sessile leaves are 1 to 5 inches long and the bright-yellow, daisylike flowers are borne in early winter in terminal cymes. An ornamental plant of value for soil-erosion control.

For previous introduction see 80699.

126536 to 126538.

From Canada. Seeds presented by Dr. William J. White, University of Saskatchewan, Saskatoon, Saskatchewan. Received January 13, 1948.

126536. AGROPYRON TRACHYCAULUM (Link) Malte. Poaceae.

Slender wheatgrass.

Grazier S-3.

126537. AGROPYRON sp. Poaceae.

Wheatgrass.

Mecca. S-1.

126538. BROMUS INERMIS Leyss. Poaceae.

Smooth brome grass.

Superior. S-9.

126539. CITRUS sp. Rutaceae.

From Mexico. Scions presented by F. W. Smith, Guasave, Sinaloa. Received January 31, 1938.

126540 to 126545.

From India. Seeds presented by G. Ghose & Co., Town-End, Darjeeling. Received January 11, 1938.

126540. IRIS KUMAONENSIS Wall. Iridaceae.

A dwarf iris of the *Pseudevansia* section, 2 to 12 inches high, native to the western Himalayas from Kashmir to Kumaon, between 9,000 and 12,000 feet altitude. The flaccid linear leaves are 12 to 14 inches long, and the solitary flowers have a perianth tube 2 to 3 inches long. The bright-lilac falls, 1 to 2 inches long, are blotched with darker lilac, and the claw has a beard of yellow-tipped hairs on a white crest. The erect standards are 1½ inches broad.

For previous introduction see 124746.

126541. IRIS sp. Iridaceae.

No. 54.

126542. LILIUM POLYPHYLLUM D. Don. Liliaceae.

Lily.

A lily with a stoloniferous white, pink-tinged bulb, a smooth green stem 4 to 5 feet high, and numerous erect, scattered linear to oblong-lanceolate leaves, 2 to 8 inches long. The fragrant nodding flowers, 2 to 12 in a lax umbel or raceme, are pale creamy yellow outside, marble-white, spotted and streaked with purple within, and are 2 to 3 inches across. Native to the western Himalayas between 6,000 and 12,000 feet altitude.

For previous introduction see 124749.

126543. LILIUM THOMSONIANUM Royle. Liliaceae.

Thomson lily.

A bulbous plant with an erect stem over a foot high and narrow grasslike leaves, mostly crowded at the base of the stem. The pale-mauve or rosy, bell-shaped, drooping flowers, with deep-purple anthers, are over an inch long and in a terminal raceme containing 8 to 10 flowers. It is native to mild-wintered regions of the Himalayas from western China to northern India.

126544. NOMOCHARIS sp. Liliaceae.**126545. PARAQUILEGIA sp. Ranunculaceae.****126546 to 126548. TEPHROSIA VOGELLI Hook. f. (*Cracca vogelii* Kuntze). Fabaceae.**

From Africa. Seeds from Northern Rhodesia, presented through the Royal Botanic Gardens, Kew, Surrey, England. Received January 10, 1938.

126546. From Luwingu. A form with purplish flowers.

126547. From Mporokoco. A form with white flowers.

126548. From Kasama. A form with pink flowers.

126549. DACTYLIS GLOMERATA L. Poaceae.

Orchard grass.

From Canada. Seed presented by J. N. Bird, Department of Agriculture, MacDonald College, Quebec. Received January 11, 1938.

Avon orchard grass.

126550. TEPHROSIA VOGELLI Hook. f. Fabaceae.

From Africa. Seeds purchased from the Mount Elgon Nurseries, Kenya Colony. Received January 4, 1938.

A purple-flowered form.

For previous introduction see 126548.

126551 to 126559. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From Maryland. Scions presented by the University of Maryland, College Park. Received August 14, 1931. Numbered in January 1938.

126551. <i>Buttercup.</i>	126556. <i>Oriole.</i>
126552. <i>Cumberland.</i>	126557. <i>Radiance.</i>
126553. <i>Delicious.</i>	126558. <i>Rosebud.</i>
126554. <i>Marigold.</i>	126559. <i>Golden Jubilee.</i>
126555. <i>Massasoit.</i>	

126560. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From New York. Budsticks presented by Richard Wellington, Agricultural Experiment Station, Geneva. Received August 28, 1933. Numbered in January 1938.

Vaughn peach.

126561 to 126567. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From Maryland. Budsticks presented by the Division of Fruit and Vegetable Crops and Diseases. Received August 28, 1933. Numbered in January 1938.

126561. <i>Veteran.</i>	126565. <i>Vedette.</i>
126562. <i>Halehaven.</i>	126566. <i>Viceroy.</i>
126563. <i>South Haven.</i>	126567. <i>Wilma.</i>
126564. <i>Valliant.</i>	

126568 and 126569. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.

From New York. Budsticks presented by H. B. Tukey, New York Fruit Testing Association, Geneva. Received August 8, 1933. Numbered in January 1938.

126568. <i>Early Rivers.</i>	126569. <i>Emperor Francis.</i>
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126570. PYRUS COMMUNIS L. Malaceae. Common pear.

From Maryland. Scions presented by the University of Maryland, College Park. Received February 12, 1932. Numbered in January 1938.

Gorham pear.

126571 to 126573. PYRUS COMMUNIS L. Malaceae. Common pear.

From Maryland. Scions presented by the University of Maryland, College Park. Received March 8, 1933. Numbered in January 1938.

126571. <i>Cayuga.</i>	126573. <i>Pultney.</i>
126572. <i>Phelps.</i>	

126574. ERYTHEA ACULEATA T. S. Brandege. Phoenicaceae.

From Mexico. Seeds collected at Los Mochis, Sinaloa, and presented by David Barry, Jr., Los Angeles, Calif. Received January 6, 1938.

A small fan palm, sometimes 20 feet high, with segmented leaves having blades about 2 feet long, slender spiny petioles over a foot long, and globular deep-brown fruits 1 inch in diameter. Native to Sinaloa, Mexico.

126575. ZEA MAYS L. Poaceae. Corn.

From Peru. Seeds presented by Alberto Martin Lynch, Chief, Lambayeque Experiment Station, Lambayeque. Received January 4, 1938.

Alazan corn. Native to Peru.

126576. LUPINUS ALBUS L. Fabaceae. White lupine.

From Germany. Seeds presented by Prof. Dr. W. Heuzer, Institut für Pflanzenbau und Pflanzenzüchtung, Landsberg (Warthe). Received January 3, 1938.

A lupine which prefers a dry climate and does not thrive on a damp or too calcareous soil.

126577 to 126595.

From Germany. Plants purchased from the Herm. P. Mauk Obstbaumschulen, Württemberg. Received January 7, 1938.

126577 and 126578. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.

126577. *Königin der Obstgarten.* 126578. *Sieger.*

126579. *CYDONIA OBLONGA* Mill. Malaceae. Quince.

Mammoth.

126580 to 126590. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

126580. *Aderslebener Cölwill.* 126586. *Potts Seedling.*

126581. *Brettscher Rambour.* 126587. *Prinz Albrecht v. Preussen.*

126582. *Geheimrat Dr. Oldenburg.* 126588. *Rhum von Kirchwarder.*

126583. *Geheimrat Wesener.* 126589. *Schöner v. Evertal.*

126584. *Josef Musch.* 126590. *Zieglerapfel.*

126585. *Mauk's Frühapfel.*

126591 and 126592. *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.

126591. *Altham (Althanns Reine Claude).*

126592. *Ruth Gerstetter.*

126593 to 126595. *PYRUS COMMUNIS* L. Malaceae. Common pear.

126593. *Birne a Tongern.* 126595. *Jos. v. Mecheln.*

126594. *Herzogin Elsa.*

126596 to 126600. NOMOCHARIS spp. Liliaceae.

From England. Seeds purchased from W. A. Constable, Southborough, Tunbridge Wells. Received January 10, 1938.

126596. *NOMOCHARIS APERTA* (Franch.) Smith and Evans.

An erect alpine plant about a foot high, with a slender rhizome and small lanceolate leaves, often ternate at the upper end of the stem. The pink flowers, purplish punctate within, are at first nodding, then erect. Native to high altitudes in Yunnan, China.

For previous introduction see 99945.

126597. *NOMOCHARIS MAIREI* Lev.

A white-flowered, lilylike plant scarcely 2 feet high, with ovate, verticillate leaves. Native to southwestern China.

For previous introduction see 99957.

126598. *NOMOCHARIS PARDANTHINA* Franch.

A beautiful plant about 3 feet high; the leaves are ternate, and the large flowers, 3 inches across, are white, pink, purple, or red with deep irregular blotches and salver-shaped corollas. Native to southwestern China between 9,000 and 11,000 feet altitude.

For previous introduction see 84020.

126599. *NOMOCHARIS PARDANTHINA FARRERI* W. E. Evans.

A plant about 2 feet high, with whorls of dark-green lanceolate leaves and from 1 to 10 rose-pink to white flowers of variable shade, color, and spottings. Native to alpine slopes among dwarf bamboos in Upper Burma. It differs from the type in having fimbriate inner perianth segments.

For previous introduction see 95558.

126600. *NOMOCHARIS SALUENENSIS* I. B. Balf.

A tall herbaceous perennial up to 3 feet high, with lanceolate leaves about 3 inches long and racemose clusters of several large pale-rose flowers having purplish-rose spots within. Native to Yunnan Province, China.

126601 to 126799. EUCHLAENA MEXICANA Schrad. Poaceae. Teosinte.

From Guatemala. Seeds collected by Raymond Stadelman, Bureau of Plant Industry, United States Department of Agriculture. Received January 10, 1938.

126601 to 126741. Collected in the vicinity of Los Chilamates.

126742 to 126747. Collected in the vicinity of Jutiapa.

126748 to 126799. Collected in the vicinity of El Progreso.

126800. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Ecuador. Tubers presented by the Director, Instituto de Fomento Agrícola, Cuenca. Received January 11, 1938.

Ohio potato.

126801 to 126810. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From India. Seeds presented by the Imperial Economic Botanist, Imperial Agricultural Research Institute, New Delhi. Received January 11, 1938.

126801. *Pusa 4.*

126806. *Pusa 111.*

126802. *Pusa 12.*

126807. *Pusa 114.*

126803. *Pusa 52.*

126808. *Pusa 120.*

126804. *Pusa 80-5.*

126809. *Pusa 125.*

126805. *Pusa 101.*

126810. *Pusa 165.*

126811 to 126818.

From Italy. Plants purchased from Arturo Ansaloni, Bologna. Received January 19, 1938.

126811 to 126815. *PRUNUS AVIUM L. Amygdalaceae.*

Sweet cherry.

126811. *Bella di Barbanti.*

126814. *Durona dell'Anella.*

126812. *Di Modena Precoce.*

126815. *Durona di Cesena.*

126813. *Di Modena Tardiva.*

126816 to 126818. *PYRUS COMMUNIS L. Malaceae.*

Common pear.

126816. *Francescina.*

126818. *Spadoncino.*

126817. *Mora.*

126819 and 126820. ARUM spp. Araceae.

From the Union of Soviet Socialist Republics. Seeds presented by Prof. A. A. Grossheim, Director, Botanic Garden, Baku. Received January 22, 1938.

126819. *ARUM ORIENTALE Bieb.*

An arum with a discoid tuber and petioles 3 or 4 times as long as the blades, which are often black-spotted, hastate-sagittate, the lobes ovate-triangular, often obtuse. The spathe has an oblong tube $\frac{1}{2}$ to $\frac{1}{3}$ as long as the intensely purple or black lamina. The spadix is half as long as the spathe, with a stalk dilated into a club-shaped purplish appendix. Native to the Caucasus region.

126820. *ARUM ELONGATUM Stev.*

An arum about a foot high, with brownish, broadly hastate-sagittate leaves. The spathe tube is oblong-ovoid, white within, with the limb intensely black purple. Native to Asia Minor.

126821. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Peru. Tubers collected by H. L. Blood, Agricultural Experiment Station, Logan, Utah, in cooperation with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received January 21, 1938.

[Received without notes.]

126822. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Australia. Seeds presented by the Experimental Farm, Cowra, New South Wales, at the request of Dr. H. Wenzholz, Department of Agriculture, Sydney. Received February 1, 1938.

Kenya Crossbred, C. 6040.

126823 and 126824. PRUNUS spp. Amygdalaceae.

From Italy. Seeds purchased from Arturo Ansaloni, Bologna. Received January 19, 1938.

126823. *PRUNUS AVIUM L.*

Mazzard cherry.

126824. *PRUNUS MAHALEB L.*

Mahaleb cherry.

126825 to 126830.

From Germany. Seeds presented by G. Katterman, Freising. Received January 15, 1938.

126825 to 126828. *SECALE CEREALE L. Poaceae.*

Rye.

126825. *Blankorn-1.*

126826. *Blankorn-2.*

126827. *Stark Behaart, 104/105/109/111.*

126828. *Weiheu, 0 1.*

126829 and 126830. *TRITICUM AESTIVUM L. Poaceae.*

Common wheat.

126829. *W.R. 26-46.*

126830. *W.R. 48.*

126831 to 126845.

From Japan. Seeds purchased from Tanaka Boekibu, Osaka. Received January 18, 1938.

126831. *CASSIOPE LYCOPODIODES (Pall.) D. Don. Ericaceae.*

A low creeping plant with slender stems, scalelike crowded leaves, and nodding white, bell-shaped flowers borne singly on erect peduncles. Native to northeastern Asia.

For previous introduction see 103868.

126832. *CLINTONIA UDENSIS* Trautv. and Mey. *Convallariaceae.*

A low-growing, liliaceous perennial native to damp places in southeastern Siberia. The erect, broadly oblong leaves, 6 inches long, are green, paler beneath. The inconspicuous greenish-yellow flowers are borne on a scape and are followed by small deep-blue berries.

For previous introduction see 81948.

126833. *PHYLLODOCE ALEUTICA (Spreng.) Heller. Ericaceae.*

A low deciduous shrub with imbricated linear serrulate leaves and terminal clusters of small, bell-shaped flowers. Native to the Aleutian Islands.

For previous introduction see 101384.

126834. *PHYLLODOCE NIPPONICA* Makino. *Ericaceae.*

A small evergreen bush up to 1 foot high, with numerous linear, obtuse, spinose-serrulate, rigid, glossy-green leaves $\frac{1}{2}$ inch long, and pink flowers up to 1 inch long, borne near the ends of the branches. Native to Japan.

For previous introduction see 102303.

126835. *PRUNELLA VULGARIS L. f. Menthaceae.*

126836 to 126838. *RHODODENDRON* spp. *Ericaceae.*

126836. *RHODODENDRON CHRYSANTHUM* Pall.

A prostrate or semiprostrate alpine shrub up to 12 feet high, with oblanceolate or obovate leaves 1 to 4 inches long and yellow flowers about 1 inch long in small clusters. Native to northeastern Asia.

126831 to 126845—Continued

126837. *RHODODENDRON HYMENANTHES* Makino.

A shrub 12 to 15 feet high, native to Japan. The oblanceolate leaves, 2 to 5 inches long, are dark green above and gray tomentose beneath; the pale to deep rose-pink campanulate flowers, 2 to 3 inches across, are borne in loose clusters.

126838. *RHODODENDRON RUFESCENS* Franch.

An evergreen shrub 1 to 2 feet high, with oblong to oblong-elliptic leaves about $\frac{3}{4}$ inch long and several white to pale-blue flowers about $\frac{3}{4}$ inch long, in terminal clusters. Native to Szechwan Province, China, at altitudes of 11,000 to 13,000 feet.

126839. *RUBUS SPECTABILIS* Pursh. Rosaceae.126840. *SHORTIA* sp. Diapensiaceae.126841 to 126845. *VIOLA* spp. Violaceae.

Violet.

126841. *VIOLA NIPPONICA* Makino.

A stemless violet with many tufted ovate leaves $\frac{1}{2}$ to 2 inches long and numerous violet-purple flowers about 1 inch across. It is probably a hybrid between *Viola japonica* and *V. phalacrocarpa*.

126842. *VIOLA SYLVESTRIS* Lam.

A violet, native to France, with stems 3 to 4 inches long, heart-shaped leaves, and inodorous violet or nearly white flowers on stalks longer than the leaves.

For previous introduction see 104604.

126843. *VIOLA VAGINATA* Maxim.

A robust, stemless violet with broad cordate leaves and large, pale-violet flowers. Native to Japan.

126844. *VIOLA VERECUNDA* A. Gray.

A Japanese violet closely related to *Viola canadensis*. The 3 or 4 kidney-shaped leaves are slender and erect, and the flowers are white with purple veins.

For previous introduction see 103899.

126845. *VIOLA YAKUSIMANA* Nakai.

A weak-stemmed perennial violet with fleshy, reniform leaves. Native to Japan.

126846 to 126853.

From England. Seeds presented by Sir Lionel de Rothschild, London. Received January 18, 1938.

126846 to 126848. *BERBERIS* spp. Berberidaceae.

Barberry.

126846. *BERBERIS HOOKERI* Lem.

No. R. F. 1030. An evergreen barberry, native to the Himalayas, where it is a dense shrub 3 to 5 feet high, usually with 3-parted spines, dark-green, leathery, spiny-margined leaves, and cylindrical, deep-purple berries often persisting on the shrub until spring.

For previous introduction see 79508.

126847. *BERBERIS* sp.

K. W. No. 6326.

126848. *BERBERIS* sp.

F. 29042.

126849. *BETULA MEDWEDIEWII* Regel. Betulaceae.

827734—49—2

126846 to 126853—Continued

126850. *HELICHRYSUM ROSMARINIFOLIUM* (Labill.) Less. Asteraceae.

A shrub up to 10 feet high, with linear, revolute-margined leaves $\frac{1}{2}$ inch or longer, in dense corymbs of many small heads of white ray flowers. Native to Victoria, Australia.

126851. *NOMOCHARIS PARDANTHINA* Franch. Liliaceae.

A beautiful liliaceous plant about 3 feet high, native to southwestern China between 9,000 and 11,000 feet altitude. The leaves are ternate, and the large flowers, 3 inches across, are white, pink, purple, or red with deep irregular blotches and salver-shaped corollas.

For previous introduction see 84020.

126852. *THAMNOGALAMUS FALCONERI* Hook. f. Poaceae.

Bamboo.

A bamboo with a cylindrical culm which, when young, has 8 to 10 branches at each node; these branches vary in length, are exceedingly slender, often purplish in color, and have 4 to 7 leaves gathered near the tips. The leaves are lanceolate, $1\frac{1}{2}$ to 4 inches long by $\frac{3}{16}$ to about $\frac{5}{8}$ inch wide. The slenderness of the branches gives this bamboo a distinctive beauty.

For previous introduction see 123428.

126853. *CAMELLIA CUSPIDATA* (Kochs) Veitch. Theaceae.

An erect evergreen shrub up to about 6 feet high, with polished, ovate-lanceolate leaves 1 to 3 inches long and solitary white flowers about $1\frac{1}{2}$ inches across. Native to western China.

126854 to 126868.

From Afghanistan. Bulbs and cuttings collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received January 28, 1938.

Unless otherwise mentioned, the material was received as cuttings.

126854. *IRIS* sp. Iridaceae.

No. 4330. Bulbs from Kabul, December 14, 1937, found growing in clumps 4 feet across; the numerous large flowers were wine purple.

126855. *SALIX* sp. Salicaceae.

Willow.

No. 4332. From Paghman, December 17, 1937, at 7,000 feet altitude. A tree with small, very fragrant flowers.

126856 to 126868. *VITIS* spp. Vitaceae.

From Saraioe Khoja, December 17, 1937, at 6,000 feet altitude.

126856. *VITIS* sp.

No. 4333.

126857. *VITIS* sp.

No. 4334. *Khailili*. One of the best.

126858. *VITIS* sp.

No. 4335. *Kandahari Sia*.

126859. *VITIS* sp.

No. 4336. *Nunaka Sia*.

126860. *VITIS* sp.

No. 4337. *Hussaini*.

126861. *VITIS* sp.

No. 4338. *Kishmish Sufed*. A seedless grape.

126862. *VITIS* sp.

No. 4339. *Kishmish Sia*. A seedless grape.

126854 to 126868—Continued

126863. *VITIS* sp.No. 4340. *Abjosh Kandahari Sufed.*126864. *VITIS* sp.No. 4341. *Munaka Sufed.*126865. *VITIS* sp.No. 4342. *Ghola Dani.*126866. *VITIS* sp.No. 4343. *Didigao.*126867. *VITIS* sp.No. 4344. *Sufed Khatta.*126868. *VITIS* sp.No. 4345. *Sahibi.* One of the best.

126869 to 126883.

From England. Plants purchased from Charles Townsend, Ltd., Fordham, Cambridgeshire. Received January 29, 1938.

126869 to 126880. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

126869. *Advance 107.*126875. *Monarch.*126870. *Chivers Seedling.*126876. *Redcoat Grieve.*126871. *D'Arcy Spice.*126877. *Red Juneating.*126872. *Dr. Harvey.*126878. *Sanspareil.*126873. *Duchess Favorite.*126879. *Scarlet Nonpareil.*126874. *Miller's Seedling.*126880. *Worcester Pearmain.*126881 to 126883. *PRUNUS DOMESTICA* L. Amygdalaceae.

Common plum.

126881. *Laston's Early.*126883. *Switchin.*126882. *Laston's Gage.*

126884 to 126893.

From England. Plants purchased from Hillier & Sons, Winchester. Received January 29, 1938.

126884 to 126889. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

126884. *Arthur Turner.*126887. *Mr. Prothero.*126885. *Golden Spire.*126888. *Peacemaker.*126886. *Hillier's Easter Orange.*126889. *Quarrenden Red.*126890 to 126893. *PRUNUS* spp. Amygdalaceae.126890. *PRUNUS AVIUM* L.

Sweet cherry.

*Bedford Prolific.*126891. *PRUNUS DOMESTICA* L.

Common plum.

*Early Laston.*126892 and 126893. *PRUNUS INSTITITA* L.

Plum.

126892. *Merryweather.*126893. *Langley.* A black plum.126894 to 126901. *HEDERA* spp. Araliaceae.

Ivy.

From England. Plants purchased from L. R. Russell, Ltd., Windlesham, Surrey. Received January 29, 1938.

126894. *HEDERA CANARIENSIS* Willd.

Introduced under the varietal name "azorica."

126894 to 126901—Continued

126895. *HEDERA NEPALENSIS* K. Koch.

A high-climbing tender ivy with triangular-ovate to triangular-oblong, pinnate-lobed leaves 2 to 5 inches long. Native to India.

For previous introduction see 115640.

126896. *HEDERA HELIX CONGLOMERATA* Nichols.

A slow-growing variety with crowded, small, entire or 3-lobed undulate leaves.

126897. *HEDERA HELIX* L.

English ivy.

126898 and 126899. *HEDERA HELIX MINIMA* Hibb.

A variety with small, close-set, 3-lobed or pedately 5-lobed, short and spreading basal-lobed leaves which turn dull purplish brown in winter.

126898. No. 53077.

126899. Var. *Russelliana*.

126900 and 126901. *HEDERA HELIX* L.

English ivy.

126900. Var. *Nigra Aurea*.

126901. Var. *Spectabilis Aurea*.

126902. *RUBUS* sp. Rosaceae.

From England. Plants purchased from G. T. Spinks, University of Bristol, Research Station, Long Ashton, Bristol. Received January 29, 1938.

Preussan Red raspberry.

126903 to 126966.

From Peru. Seeds collected by H. L. Blood, Agricultural Experiment Station, Logan, Utah, in cooperation with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received January 21, 1938.

126903. *DATURA SANGUINEA* Ruiz and Pav. Solanaceae.

Red floripondio.

No. 113-A. From Huamachuca, December 18, 1937. A large treelike shrub 4 to 12 feet high, with pubescent, ovate-acuminate leaves and brilliant brick-red, pendulous flowers 8 inches long. Native to Peru.

For previous introduction see 108294.

126904. *DUCHESNEA INDICA* (Andrews) Focke. Rosaceae. Mock-strawberry.

No. 147. From Huaraz, December 26, 1937, at 10,000 feet altitude.

126905 to 126955. *LYCOPERSICON* spp. Solanaceae.

126905 to 126923. *LYCOPERSICON ESCULENTUM* Mill.

Tomato.

126905. No. 72. From the junction of the Rio Chinchao and the Rio Hualaga at 2,300 feet altitude. Fruit the shape and size of a cherry.

126906. No. 73. South of Tingo Maria at 2,000 feet altitude, December 6, 1937. Escaped from cultivation.

126907. No. 109. From Trujillo, December 17, 1937. A small rough fruit, cultivated locally.

126908. No. 110. From Trujillo, December 17, 1937. A small flat fruit, grown locally and sold in the market.

126909. No. 104. From the market at Chimbate, December 16, 1937. Fruit flat and ribbed; small for a cultivated fruit.

126910. No. 116. From the market at San Pedro, December 19, 1937. Fruit of the large cherry type.

126911. No. 117. From the market at San Pedro, December 19, 1937. Fruit flat and rough.

126912. No. 119. From the market at Pacasmayo, December 19, 1937. A mixed sample; fruits rough and flat or the smooth long cherry type.

126913. No. 121. From the market at Pacasmayo, December 19, 1937. Fruit round and smooth, large cherry type.

126903 to 126966—Continued

126914. No. 122. From the market at Pacasmayo, December 19, 1937. Fruit very rough and flat; selection from mixed lot.

126915. No. 125. From the market at Chiclayo, December 19, 1937. Fruit cherrylike.

126916. No. 126. From the market at Chiclayo, December 19, 1937. Fruit small, rough, and flat.

126917. No. 134. From the market at Cajamarca, December 21, 1937. Fruit variable, some round and smooth, others rough and flat.

126918. No. 150. From Huaraz, December 26, 1937. Two types; collected in the hospital garden, one rough, the other cherrylike.

126919. No. 151. From the market at Huaraz, December 26, 1937. Fruit yellow.

126920. No. 153. From the market at Huaraz, December 26, 1937. Fruit very rough and variable. Grown by the natives for a long time.

126921. No. 101. From the market at Casma, December 16, 1937, but said to have been grown at Haicho. Fruit rough and flattened, about 1 inch in diameter.

126922. No. 152. From the market at Huaraz, December 26, 1937. Cherry-formed fruit.

126923. No. 118. From the market at San Pedro, December 19, 1937. Fruit small currant type, about $\frac{1}{2}$ inch in diameter.

126924 and 126925. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

For previous introduction see 126437.

126824. No. 76. From west of Vitaste and about 10 miles east of Lima, December 8, 1937. Fruit small, red, about $\frac{1}{2}$ inch in diameter.

126925. No. 82. From Pacasmayo, December 14, 1937. A climbing plant, found covering a fence, fruit less than $\frac{1}{2}$ inch in diameter.

126926. *LYCOPERSICON PERUVIANUM* (L.) Mill.

No. 83. From Pacasmayo in a field north of the town at 100 feet altitude, December 14, 1937. A procumbent plant not over 8 inches high; fruit of white type, about $\frac{1}{2}$ inch in diameter.

For previous introduction see 126431.

126927. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

No. 84. From Pacasmayo, in a field north of the town at 100 feet altitude, in sandy soil, December 14, 1937. Found in dry sandy soil, but below an irrigation ditch. Small red fruit about $\frac{1}{2}$ inch in diameter.

126928 to 126930. *LYCOPERSICON PERUVIANUM* (L.) Mill.

Nos. 126928 and 126929. From Pacasmayo, December 14, 1937, in a field north of town, at about 100 feet altitude.

126928. No. 85. Fruits about 1 inch in diameter, violet reddish at the stem end, white at the blossom end.

126929. No. 86. Fruits about $\frac{1}{2}$ inch in diameter, yellow at the stem end, whitish at the blossom end.

126930. No. 88. *Tomate de Culebra*. From Chancay, December 14, 1937, at 300 feet altitude. Fruit green over shoulder, whitish at the blossom end.

126931 to 126934. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

No. 126931 and 126932. From the Pampa de Matacabaillos La Zorra, along the roadside at 300 feet altitude, between Gramadal and Huarney, December 5, 1937.

126931. No. 93. Plants vigorous.

126932. No. 94. Fruit $\frac{1}{2}$ inch in diameter.

126903 to 126966—Continued

126933. No. 95. From Huarmey, at the edge of a cottonfield at about 200 feet altitude. Fruits about $\frac{1}{2}$ inch in diameter.

126934. No. 108. From the market at Trujillo, December 17, 1937, but grown at Mache. Fruit a little larger than the previous collections.

126935. *LYCOPERSICON ESCULENTUM* Mill. Tomato.

No. 111. From near Samne, December 17, 1937, at about 6,000 feet altitude. Fruit of white type, dark green over the shoulders, with two main stripes of darker green; about $\frac{1}{2}$ inch in diameter.

126936. *LYCOPERSICON HIRSUTUM* Humb. and Bonpl.

No. 112. From just west of where the road forks for Otusco from the road to Huamachuca, at about 3,500 feet altitude. Plant coarse and hirsute; fruit not so hirsute as that of the coarse plant collected in the Santa Valley, and a trifle larger and more deeply colored around the stem end; about 1 inch in diameter.

126937. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

No. 107. From the market at Trujillo, December 17, 1937, but grown at Mache. Plants not seen.

126938. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

No. 106. From the market at Trujillo, December 17, 1937, but grown between Trujillo and Mache.

126939 to 126941. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

126939. No. 105. From Santa, December 16, 1937. Plants growing at the border of a cottonfield. Fruit red, $\frac{1}{2}$ inch in diameter.

126940. No. 103. From Huamachuca, December 16, 1937, at about 100 feet altitude. Fruit red and about $\frac{1}{2}$ inch in diameter.

126941. No. 102. From fields north of Casma, December 16, 1937, at about 25 feet altitude. Plants growing in an abandoned cottonfield; fruit less than $\frac{1}{2}$ inch in diameter.

126942. *LYCOPERSICON ESCULENTUM* var. *CERASIFORME* (Dun.) A. Gray.

No. 70. Collected along the Rio Huallaga, just above Tingo Maria, at about 2,000 feet altitude. Fruit small, cherrylike; evidently an escape from cultivation.

126943. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

No. 97. From Culebras, on the border of an irrigated area in an abandoned field at 300 feet altitude, December 15, 1937. Fruit small, red, about $\frac{1}{2}$ inch in diameter.

126944 to 126946. *LYCOPERSICON PERUVIANUM* (L.) Mill.

From Culebras, between 200 and 300 feet altitude, December 15, 1937. Collected in abandoned fields on the border of an irrigated area.

126944. No. 98. Fruit white with red glow over shoulders.

126945. No. 99. Fruit yellowish white with prominent yellow glow over shoulders.

126946. No. 100. Fruit large, yellowish.

126947 and 126948. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

126947. No. 114. From the ruins of Chan Chan, December 18, 1937, at 200 feet altitude. Fruit small, red, about $\frac{1}{2}$ inch in diameter; currant type.

126948. No. 115. From the market at San Pedro, December 19, 1937. A wild plant with small pubescent fruits about $\frac{1}{2}$ inch in diameter.

126949. *LYCOPERSICON GLANDULOSUM* C. H. Mull.

No. 75. From a dry cliff west of San Mateo, at 9,500 feet altitude, December 5, 1937. Fruit yellowish green.

126903 to 126966—Continued

126950. *LYCOPERSICON* sp.

No. 120. From the market at Pacasmayo, December 19, 1937. Fruit of cherry type, smooth, and about $\frac{1}{2}$ inch in diameter.

126951. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

No. 123. Along the roadside near Guadalupe, December 19, 1937, at 150 feet altitude. Fruit of currant type, less than $\frac{1}{2}$ inch in diameter.

126952. *LYCOPERSICON* sp.

No. 124. From along an irrigation ditch bordering the highway between Zaña and Chiclayo, December 19, 1937, at 150 feet altitude. A small delicate plant resembling *Lycopersicon humboldtii*, but more pubescent and with much more conspicuous flowers; fruit small and pubescent.

126953 to 126955. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

126953. No. 127. From Lambayeque, in fields of the experiment station, at 25 feet altitude, December 19, 1937.

126954. No. 128. From Lambayeque, in fields of the experiment station, at 25 feet altitude. Fruit less than $\frac{1}{2}$ inch in diameter.

126955. No. 149. From Huaraz, in the garden of the hospital, December 26, 1937, at 10,000 feet altitude. Fruit plum-shaped.

126956 to 126960. *PHASEOLUS VULGARIS* L. Fabaceae.

Common bean.

126956. No. 129. From the market at Casa Grande. A buff, pea-shaped bean grown in the coastal regions of Peru.

Nos. 126957 to 126960. From the market at Cajamarca, December 21, 1937. Mixed samples of beans grown in the coastal region.

126957. No. 130.

126959. No. 132.

126958. No. 131.

126960. No. 133.

126961. *PRUNUS CAPULI* Cav. Amygdalaceae.

Capulin.

No. 145. *Capuli*. From Huaraz, at 10,000 feet altitude, December 26, 1937. Fruit small and very dark purple, mottled with a lighter shade when ripe.

126962 to 126965. *SOLANUM* spp. Solanaceae.126962. *SOLANUM PSEUDOCAPSICUM* L.

Jerusalem-cherry.

No. 148. *Manza de Amor*. From Huaraz, December 26, 1937. A plant with coarse, dark-green, herbaceous leaves, slightly undulate.

For previous introduction see 104597.

126963. *SOLANUM TRIPARTITUM* Dun.

No. 137. *Tomate Silvestre Amarillo*. From fields east of Cajamarca at 9,500 feet altitude. A yellow tomato.

126964. *SOLANUM CORYMBOSUM* Jacq.

No. 138. *Tomate Colorado*. From fields east of Cajamarca, at 9,500 feet altitude.

126965. *SOLANUM* sp.

No. 89. *Yerba Mora*. From Chancay, at 300 feet altitude. Fruit blue black, $\frac{1}{2}$ inch in diameter.

126966. *ATHENAEA* sp. Solanaceae.

No. 71. From Tingo Maria, on the Rio Huallaga, at about 2,000 feet altitude. The plant resembles *Solanum nigrum* var. *villosum*; berries about $\frac{1}{4}$ inch in diameter, yellowish red, with the husk tight to the fruit.

126967 to 126973. Gossypium spp. Malvaceae.**Cotton.**

From Peru. Seeds presented by Victor Marie, Superintendent, Estación Experimental Agrícola de La Molina, Lima. Received January 11, 1938.

126967 to 126971. Gossypium.

126967. *Semi-aspero Montaria* 326-36 Zarula.

126968. *Semi-aspero Piura* L. M. D. 57-35.

126969. *Pardo Piura* L. M. 98-35.

126970. *Pardo Piura* L. M. 9-35.

126971. *Pais Piura* L. M. III, 4-8-35.

126972. Gossypium brasiliense Macfad.

Rinon. (Kidney cotton.) L. U. Montana.

For previous introduction see 67521.

126973. Gossypium raimondii Ulbrich.

From Chilete, Peru. A shrub or small tree, native to Peru.

126974. Carica pentagona Heilborn. Papayaceae.

From Ecuador. Cuttings presented by Dr. Luis A. Gattoni, Gobierno del Ecuador, Quito. Received February 1, 1938.

Babaco. This is the most remarkable and valuable of the several interesting species of *Carica* cultivated in Ecuador, because of its large, very acid fruits, from which an excellent sauce is made, the relatively low temperatures which the plant can stand, and because of its habit of producing seedless fruits.

The plant is seen only under cultivation, where it is a small tree about 3 m. high; the leaves are glabrous, like those of *Carica chrysopetala*, but with fewer and broader lobes. The fruits are about 30 cm. long and 7 cm. to 12 cm. in diameter, truncate at the base and sharply acute at the apex. The flesh is about 1 cm. thick, white, distinctly fragrant, and very acid. It is eaten only after it is cooked. The large cavity in the center contains a quantity of white cottony substance and occasionally a few seeds. The plant is propagated by cuttings.

For previous introduction see 119268.

126975 to 126977.

From Mexico. Seeds presented by T. MacDougall, San Miguel, Chimalapa, Oaxaca. Received February 2, 1938.

126975. Chamaedorea sp. Phoenicaceae.**Palm.**

A palm with branched inflorescences.

126976. Chamaedorea sp. Phoenicaceae.**Palm.**

A palm with simple inflorescences.

126977. Zamia sp. Cycadaceae.**126978. Rhapidophyllum hystrix (Pursh) Wendl. and Drude. Phoenicaceae. Needle palm.**

From Georgia. Seeds collected by David Bisset, United States Plant Introduction Garden, Savannah. Received February 2, 1938.

An attractive dwarf fan palm, native to the lowlands of South Carolina, Georgia, and Florida, but very local in its distribution. It is now quite rare and appears to be approaching extinction as a wild plant. The 2- to 3-foot stems are erect or creeping, with palmate leaves, dark shiny green above and silvery gray beneath, which reach a height of 3 to 4 feet. Slender sharp black spines up to a foot long project from the trunk in every direction. The staminate and pistillate flowers are borne on separate plants.

For previous introduction see 94206.

126979. AGAVE SCHOTTII Engelm. Amaryllidaceae.

From Arizona. Seeds collected by T. H. Kearney and R. H. Peebles, Bureau of Plant Industry. Received February 2, 1938.

No. 13781. From near Ruby, Pima County, at 4,300 feet altitude, October 2, 1937. A caespitose agave, native to southern Arizona, with linear-triangular, white-marked leaves 12 to 15 inches long and curved yellowish flowers an inch or more in length, scented like Polianthes, on a stalk 6 to 7 feet high.

For previous introduction see 81095.

126980 to 126982. VITIS spp. Vitaceae.**Grape.**

From France. Plants purchased from the Richter Nurseries, Montpellier. Received February 3, 1938.

126980. *Colombard* \times *Berlandieri*.

126981. *1202* \times *Riparia Martineau* 196-17.

126982. *Saint Jacques*.

126983. INODES PALMETTO (Walt.) O. F. Cook. Phoenicaceae.**Cabbage palmetto.**

From Georgia. Seeds collected on Wilmington Island by J. Frank Joyner, Bureau of Plant Industry, United States Department of Agriculture. Received February 4, 1938.

For previous introduction see 7773.

126984 to 126988.

From England. Roots and plants purchased from Laxton Bros. Bedford, Ltd., Bedford. Received February 7, 1938.

126984. *RHEUM RHAPONTICUM* L. Polygonaceae.

Rhubarb.

Hawke's Champagne. Roots received.

126985 to 126988. *RUBUS*. Rosaceae.

A collection of hybrid blackberries, received as plants.

126985. *Black Diamond*.

126987. *Himalayan Giant*.

126986. *Edward Langley*.

126988. *Pollard*.

126989 to 127003.

From Germany. Plants purchased from Jacob Zavelberg, Köln. Received February 7, 1938.

126989 and 126990. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

126989. *Kernechter vom Vorgebirge*.

126990. *Schorlemer*.

126991 to 126998. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

126991. *Gelber Triererweinalpfel*.

126992. *Neue Goldparamäne*.

126993. *Nimmermühr*.

126994. *Schafsnase*.

126995. *Winterzitronenapfel*.

126996. *Winterrambour*.

126997. *Wintertreifling*.

126998. *Zigeunerinapfel*.

126999. *PRUNUS AVIUM* L. Amygdalaceae.

Sweet cherry.

Cardofer Frühe.

126989 to 127003—Continued

127000. *PRUNUS INSITITIA* L. Amygdalaceae. Plum.
Gewürzte September-Mirabelle.
127001. *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.
Zimmers Frühe.
- 127002 and 127003. *PYRUS COMMUNIS* L. Malaceae. Common pear.
 127002. *Eva Baltet.* 127003. *Gute Graue.*

127004 to 127043.

From England. Plants purchased from Laxton Bros., Bedford, Ltd., Bedford.
 Received February 8, 1938.

- 127004 to 127022. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.
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| 127004. <i>Bedford Pippin.</i> | 127014. <i>Pearmain.</i> |
| 127005. <i>Ben's Red.</i> | 127015. <i>Pioneer.</i> |
| 127006. <i>Duchess of Bedford.</i> | 127016. <i>Red Victoria.</i> |
| 127007. <i>Early Crimson.</i> | 127017. <i>Royalty.</i> |
| 127008. <i>Feltham Beauty.</i> | 127018. <i>Schoolmaster.</i> |
| 127009. <i>Fortune.</i> | 127019. <i>The Premier.</i> |
| 127010. <i>Houblon.</i> | 127020. <i>Triumph.</i> |
| 127011. <i>Imperial.</i> | 127021. <i>William Crump.</i> |
| 127012. <i>Laxton's Advance.</i> | 127022. <i>Wyken Pippin.</i> |
| 127013. <i>Leader.</i> | |
- 127023 to 127037. *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.
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| 127023. <i>Black Prince.</i> | 127031. <i>Gage.</i> |
| 127024. <i>Early Laxton.</i> | 127032. <i>Laxton's Prosperity.</i> |
| 127025. <i>Laxton's Blackbird.</i> | 127033. <i>Laxton's Supreme.</i> |
| 127026. <i>Laxton's Blue Tit.</i> | 127034. <i>Laxton's Utility.</i> |
| 127027. <i>Laxton's Bountiful.</i> | 127035. <i>Jubilee.</i> |
| 127028. <i>Laxton's Cropper.</i> | 127036. <i>Orleans Early.</i> |
| 127029. <i>Laxton's Delicious.</i> | 127037. <i>Pershire Purple.</i> |
| 127030. <i>Laxton's Goldfinch.</i> | |
- 127038 to 127043. *PYRUS COMMUNIS* L. Malaceae. Common pear.
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|---------------------------------------|---------------------------------------|
| 127038. <i>Laxton's Early Market.</i> | 127041. <i>Laxton's Satisfaction.</i> |
| 127039. <i>Laxton's Progress.</i> | 127042. <i>Laxton's Victor.</i> |
| 127040. <i>Laxton's Record.</i> | 127043. <i>Laxton's Wonderful.</i> |

127044 to 127052.

From Poland. Seeds presented by the Director, Kornik Gardens and Arboretum,
 Kornik. Received February 7, 1938.

- 127044 to 127049. *ALNUS* spp. Betulaceae. Alder.
127044. *ALNUS HIRSUTA* Turcz. Manchurian alder.
- A rather handsome, medium-sized tree, native to Japan and Manchuria,
 with rounded-elliptic, slightly lobed leaves which are hairy beneath.
- For previous introduction see 90788.
127045. *ALNUS JAPONICA* Sieb. and Zucc. Japanese alder.

A handsome pyramidal tree up to 75 feet high, with dense dark-green,
 elliptic-lanceolate, sharply serrate leaves. It is native to northeastern Asia.

For previous introduction see 90786.

127044 to 127052—Continued**127046. ALNUS MAXIMOWICZII** Callier.

An alder about 30 feet high, with abruptly short, acuminate, ovate leaves, truncate or cordate at the base. Native to Japan.

127047. ALNUS NITIDA (Spach) Endl.

A large tree becoming 100 feet high, with elliptic leaves 4 to 8 inches long. Native to the western temperate Himalayan region.

127048. ALNUS ORIENTALIS Decne.

A shrub or small tree with ovate-oblong to elliptical, wedge-shaped leaves. Native to Asia Minor.

127049. ALNUS RUGOSA (Ehrh.) Spreng.**Hazel alder.****127050. BETULA ATRATA** Domin. Betulaceae.**Birch.**

A tall birch up to about 60 feet high, with broad ovate or ovate-rotund leaves about 3 inches long. Native to the Czechomoravian highlands.

127051. SYRINGA SWEGINZOWII Koehne and Ling. Oleaceae. **Chengtzu lilac.**

A shrub up to 10 feet high, with oblong-ovate leaves 2 to 4 inches long, deep green above and paler beneath, and reddish or pale-lilac flowers in panicles 6 to 8 inches long. Native to northwestern China.

127052. SYRINGA WOLFI C. Schneid. Oleaceae.**Lilac.**

An ornamental shrub remarkable for its peculiar foliage; the elliptic oblong leaves are up to 6 inches long, cuneate, and grayish green beneath. The fragrant, dark-lilac flowers are in much-branched panicles. Native to Manchuria and Chosen.

For previous introduction see 104946.

127053 to 127055.

From Africa. Seeds purchased from the Mount Elgon Nurseries, Kitale, Kenya Colony. Received February 8, 1938.

127053. CANARINA EMINII Aschers. Campanulaceae.

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

127054. IPOMOEA sp. Convolvulaceae.

A twining herbaceous perennial with digitate leaves and large golden-yellow flowers. Native to Lower California.

127055. PENTAS COCCINEA Stapf. Rubiaceae.

A shrubby plant about 1½ feet high, with grayish-green ovate or ovate-oblong leaves and showy crimson flowers in umbellike clusters about 3 inches across. Native to xerophytic places in eastern tropical Africa.

127056. COCOS NUCIFERA L. Phoenicaceae.**Coconut.**

From the Philippine Islands. Seeds presented by Hilarion S. Silayan, Director of Plant Industry, Manila. Received February 11, 1938.

Macapuno.

127057. PYRUS COMMUNIS L. Malaceae.**Common pear.**

From Washington, D. C. Scions presented by the Soil Conservation Service, Washington. Received August 23, 1937. Numbered in February 1938.

Sugar pear.

127058. PRUNUS ARMENIACA L. Amygdalaceae.**Apricot.**

From Iowa. Budsticks presented by the Iowa State College of Agriculture, Ames. Received August 30, 1937. Numbered in February 1938.

Variety *Schick*.

127059 to 127061.

From England. Seeds presented by the Department of Botany, The University, Manchester. Received February 8, 1938.

127059. IMPATIENS AMPHORATA Edgew. *Impatientaceae*.

An erect branching annual with large elliptic leaves and interrupted racemes of many large rose-colored and yellow flowers with red veins. Native to the western temperate Himalayas.

127060. BOWIEA VOLUBILIS Hook, f. (*Ophiobolus volubilis* Skeels). *Liliaceae*.

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

For previous introduction see 114661.

127061. SALVIA CLEISTOGAMA De Bary and Paul. *Mentaceae*.**Sage.**

An erect perennial 1 to 2 feet high, covered with long hairs, with ovate oblong irregularly pinnatifid leaves, usually about 3 inches long, and blue flowers $\frac{1}{2}$ inch long in distant whorls. Native to southern Africa.

For previous introduction see 104586.

127062. RIBES SATIVUM Syme. *Grossulariaceae*. **Garden currant.**

From Germany. Cuttings presented by Dr. Ernst Münch, Forstbotanisches Institut, Munich. Received February 12, 1938.

Red Holland currant. Cuttings from plants grown at the Grafrath Experiment Station where, for 5 years, they have shown complete resistance to white-pine blister rust.

127063. HYMENOCALLIS CALATHINA (Ker) Nichols. *Amaryllidaceae*.
Lilybasket.

From Maryland. Plants growing at the United States Plant Introduction Garden, Glenn Dale. Originally presented by Roy G. Pierce, Bureau of Entomology and Plant Quarantine. Numbered February 14, 1938.

A bulbous perennial, native to Peru and Bolivia, with 6 to 8 strap-shaped leaves less than 2 feet long and a 2-edged scape about 2 feet high, bearing a sessile umbel of 2 to 5 flowers. The perianth tube, 3 to 4 inches long, is green and enlarged above; the lanceolate segments, as long as the tube, are white; and the corollalike cup is green striped, with rounded fringed lobes.

For previous introduction see 93161.

127064. RUBUS. *Rosaceae*.

From England. Plants presented by F. G. F. Glenny, Surfleet, Spalding. Received February 14, 1938.

Norfolk Giant Red raspberry.

127065. XANTHOSOMA sp. *Araceae*.

From Florida. Tubers presented by Mrs. W. D. Diddell, Jacksonville. Received February 11, 1938.

127066. PANCRACTIUM ILLYRICUM L. *Amaryllidaceae*.

From Italy. Seeds presented by Dr. Mario Ercoli, Director, La Mortola, Ventimiglia. Received February 12, 1938.

A southern European pancratium with 5 or 6 strap-shaped leaves and 6 to 12 white flowers about 1 inch long, in an umbel borne on a scape 1 foot or more long. Native to the Mediterranean region.

127067. SYZYGium SYZGIOIDES (Miq.) Merr. and Perry. Myrtaceae.

From the Canal Zone. Seeds presented by Walter R. Lindsay, Acting Director, Canal Zone Experiment Gardens, Summit. Received February 14, 1938.

A large evergreen shrub or tree with ovate leaves about 3 inches long and compact cymes of small whitish flowers, followed by deep-purple berries about the size of peas. Native to the Indo-Malayan region.

127068. RHAPIDOPHYLLUM HYSTRIX (Pursh) Wendl. and Drude. Phoenicaceae. Needle palm.

From Georgia. Plants collected by David Bisset, H. H. Hill, Ralph W. Bailey, and Thomas Higgs, Bureau of Plant Industry, Plant Introduction Garden, Savannah. Received February 14, 1938.

From the woodlands adjacent to the Ogeechee Road, north of the Plant Introduction Garden.

For previous introduction and description see 126978.

127069 to 127112.

From Afghanistan. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received February 16, 1938.

127069 to 127072. HORDEUM VULGARE L. Poaceae. Barley.

127069. No. 4208. *Jau*. From Chechaktu, November 15, 1937, at 4,000 feet altitude. Probably spring-sown.

127070. No. 3995. From Khalat, October 14, 1937, at 8,000 feet altitude. Said to be spring-sown and irrigated.

127071. No. 4135. *Jau*. From Farah, October 21, 1937. Irrigated and probably fall-sown.

127072. No. 4195. *Jau*. From Herat, October 13, 1937, at 3,000 feet altitude. Said to be spring-sown and irrigated.

127073 to 127078. ORYZA SATIVA L. Poaceae. Rice.

127073. No. 4040. From Sardeh, October 18, 1937, at 5,000 feet altitude. A wet land rice, harvested in the fall.

Nos. 127074 to 127078. From Kandahar, October 23, 1937, at 5,000 feet altitude.

127074. No. 4053. *Seré Meré*. Harvested in October.

127075. No. 4054. *Balkhi*. 127077. No. 4056. *Meragha*.

127076. No. 4055. *Spin Meré*. 127078. No. 4057.

127079 to 127107. TRITICUM AESTIVUM L. Poaceae. Common wheat.

Nos. 127079 to 127081. From Ghazni, October 7 and 8, 1937, at 8,000 feet altitude.

127079. No. 3982. *Sarda*. Probably irrigated.

127080. No. 3944. Said to be *Luchak*.

127081. No. 3945. Said to be *Garma*, irrigated.

127082. No. 3999. From Khalat, October 14, 1937, at 8,000 feet altitude. Said to be irrigated and fall-sown.

127083. No. 4139. *Mori*. From Kang, November 8, 1937, at 1,700 feet altitude. Said to be the best grown here.

127084. No. 4002. From Khalat, October 14, 1937, at 8,000 feet altitude. Grown without irrigation.

127085. No. 4045. From Sardeh, October 18, 1937, at 5,000 feet altitude. Probably fall-sown and irrigated.

127069 to 127112—Continued

127086. No. 4051. From Kandahar, October 23, 1937, at 5,000 feet altitude. Said to be an irrigated, fall-sown wheat.

Nos. 127087 to 127089. From Girishk, October 28, 1937. Said to be an irrigated, fall-grown wheat.

127087. No. 4091. *Dandan-i-shutur*.

127088. No. 4092.

127089. No. 4093.

Nos. 127090 to 127096. From Kang, November 3 to 6, 1937, at 1,700 feet altitude. Sown in the fall and irrigated.

127090. No. 4138. *Siahdas*.

127091. No. 4140. *Kalah*.

127092. No. 4141. *Surkh Khosha*.

127093. No. 4142. *Kabuli*.

127094. No. 4143. *Nishki*.

127095. No. 4154. An unnamed mixture.

127096. No. 4155. An unnamed mixture.

127097. No. 4157. From Farah, November 7, 1937. Fall-sown and irrigated.

127098. No. 4171. *Sufedak*. From Herat, November 12, 1937, at 3,000 feet altitude. Probably fall-sown; irrigated.

127099. No. 4200. *Gaudum*. From Karokh, November 13, 1937, at 3,500 feet altitude. Said to be sown in the fall and irrigated.

127100. No. 4201. From Kala Nao, November 14, 1937, at 4,500 feet altitude.

127101. No. 4202. From Bala Murghab, November 15, 1937, at 2,500 feet altitude. If fall-grown it is irrigated.

127102. No. 4207. From Chechaktu, November 15, 1937, at 4,000 feet altitude.

Nos. 127103 to 127105. From Maimana, November 19, 1937, at 2,000 feet altitude.

127103. No. 4240.

127104. No. 4241. Probably sown in the fall and irrigated.

127105. No. 4242. Probably spring-sown and not irrigated.

Nos. 127106 and 127107. From Andkhin, November 22, 1937, at 1,500 feet altitude.

127106. No. 4260. *Dandan-i-shutur* (camel's tooth).

127107. No. 4261. Probably fall-sown and irrigated.

127108 to 127112. *ZEAE* MAYS L. Poaceae.

Corn.

127108. No. 4052. From Kandahar, October 23, 1937, at 5,000 feet altitude. A random sample from a farmer's crop.

127109. No. 4282. From Balkh, November 30, 1937. Bears ears at each node, beginning at the ground, and on 1 to 3 suckers.

127110. No. 4301. From Andkhin, November 23, 1937. Turkoman corn.

Nos. 127111 and 127112. From Charikar, December 11, 1937. Typical corn. The red is not often seen; the yellow pops satisfactorily.

127111. No. 4313.

127112. No. 4313-A.

127113. *FRAGARIA* sp. Rosaceae.

Strawberry.

From England. Plants presented by C. J. Gleed, Botley Experiment Fruit Station, Hampshire, through the Horticultural Superintendent, The Castle, Winchester. Received February 18, 1938.

Early Cambridge.

127114 and 127115. PANCRACTIUM spp. Amaryllidaceae.

From England. Bulbs purchased from the Hocker Edge Gardens, Cranbrook, Kent. Received February 21, 1938.

127114. PANCRACTIUM ILLYRICUM L.

For previous introduction and description see 127066.

127115. PANCRACTIUM MARITIMUM L.

A bulbous perennial with 5 to 6 strap-shaped, evergreen leaves and 5 to 10 large fragrant white flowers on a compressed scape, blooming throughout the summer. Native to the Mediterranean region.

For previous introduction see 93488.

127116. JUGLANS NIGRA L. Juglandaceae.**Black walnut.**

From Michigan. Seeds presented by N. A. Cardinell, Michigan State College, East Lansing. Received February 21, 1938.

127117. DIGITARIA sp. Poaceae.**Grass.**

From the Union of South Africa. Seeds presented by D. Meredith, African Explosives & Industries, Ltd., Johannesburg. Received February 18, 1938.

Pongola. A strain of woolly fingergrass.

127118. SOLANUM sp. Solanaceae.

From Peru. Tubers collected by H. L. Blood, Agricultural Experiment Station, Logan, Utah, in cooperation with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received February 25, 1938.

A wild potato, collected among the ruins of Pisac, at 12,500 feet altitude.

127119 to 127310. CITRULLUS VULGARIS Schrad. Cucurbitaceae.**Watermelon.**

From Afghanistan. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received February 18, 1938.

This material was all collected in the autumn of 1937.

127119. No. 4083. From Girishk, October 28. Fruit globose, 7 inches in diameter, yellow with broad orange stripes; rind $\frac{3}{8}$ inch thick; flesh pale rose.

Nos. 127120 and 127121. From Haibak, September 24, at 2,000 feet altitude.

127120. No. 2888. Fruit globose, 10 inches in diameter, very dark green; rind $\frac{1}{2}$ inch thick; flesh rose, of good texture, sweet.

127121. No. 3889. Fruit 13 by 9 inches, pale green, vermiculations darker; rind 1 inch thick; flesh rose, of good texture and flavor.

Nos. 127122 to 127128. From Kabul, September 26 to October 6, at 7,000 feet altitude.

127122. No. 3893. Fruit 17 by 10 inches, pale green with traces of slightly darker blotched stripes; rind $\frac{3}{4}$ inch thick; flesh pink, good but rather firm.

127123. No. 3895. Fruit globose, 10 inches in diameter, pale green; rind $\frac{1}{2}$ inch thick; flesh pink, good.

127124. No. 3896. Fruit globose, 10 inches in diameter, greenish white with obsolescent stripes of darker green; rind $\frac{1}{2}$ inch thick; flesh pink, good.

127125. No. 3903. Fruit globose, 10 inches in diameter; greenish white, with traces of darker green stripes; rind $\frac{1}{2}$ inch thick; flesh pink, good.

127126. No. 3904. Fruit 15 by 7 inches, pale green with irregular stripes of grass green; rind $\frac{1}{2}$ inch thick; flesh rose, of good texture, but low in sugar content.

127119 to 127310—Continued

127127. No. 3910. Fruit globose, 8 inches in diameter, pale green, striped and vermiculated with lighter green; rind $\frac{1}{4}$ inch thick; flesh rose, good texture, medium sugar content.
127128. No. 3911. Fruit 14 by 10 inches, pea green, handsomely striped with very dark green; rind hard, $\frac{1}{2}$ inch thick; flesh rose, of good texture, but low in sugar.
127129. No. 3912. From Haibak, October 5. Fruit globose, 10 inches in diameter, very dark green, of good quality.
- Nos. 127130 and 127131. From Kabul, October 6, at 7,000 feet altitude.
127130. No. 3917. Fruit globose, 9 inches in diameter, pea green, vermiculated; rind $\frac{1}{2}$ inch in diameter; flesh pink, good.
127131. No. 3918. Fruit 12 by 9 inches, vermiculated and with narrow stripes of very dark green, rind $\frac{1}{2}$ inch thick; flesh rose, of good texture, but low in sugar.
127132. No. 3919. From Shaikhabad, October 6, at 8,000 feet altitude. Fruit globose, 6 inches in diameter, tasteless.
- Nos. 127133 to 127139. From Ghazni, October 7 and 8, at 8,000 feet altitude.
127133. No. 3921. Fruit globose, 10 inches in diameter, pale green, flecked with darker green and with narrow irregular stripes of grass green; rind $\frac{1}{2}$ inch thick, flesh pink, of good texture, firm, sweet; probably a good keeper.
127134. No. 3922. Fruit globose, 10 inches in diameter, grass green with narrow stripes of very dark green; rind $\frac{1}{2}$ inch thick; flesh rose, sweet but slightly stringy.
127135. No. 3924. Fruit globose, 8 inches in diameter, grass green with narrow stripes of very dark green; rind $\frac{1}{2}$ inch thick; flesh yellow, good texture, sweet.
127136. No. 3926. A mixture of end-of-the-season small fruits.
127137. No. 3933. Fruit globose, 10 inches in diameter, pale green with narrow stripes of grass green; rind $\frac{1}{2}$ to $\frac{3}{4}$ inch thick; flesh pink, firm, good texture, sweet, probably keeps well.
127138. No. 3934. Fruit globose, 8 inches in diameter, pale green with net-ribbing of darker green; rind $\frac{1}{2}$ inch thick; flesh yellow, of good texture, and sweet.
127139. No. 3935. Fruit 12 by 8 inches, pea green, vermiculated; rind $\frac{1}{2}$ inch thick; flesh yellow, good texture, fairly sweet.
127140. No. 3936. From Kabul, October 7, at 7,000 feet altitude. Fruit 15 by 12 inches, whitish green; rind $\frac{3}{4}$ inch thick; flesh pink, firm, sweet, with air spaces in the heart, unusual in Afghan melons.
- Nos. 127141 to 127144. From Mukkur, October 10, at 8,500 feet altitude.
127141. No. 3952. Fruit globose, 10 inches in diameter, equal stripes of light and grass green, the light green more or less flecked with darker green; rind $\frac{1}{2}$ inch thick; flesh pink, firm, of good texture, sweet, even so late in the season.
127142. No. 3950. A mixture of yellow-fleshed varieties.
127143. No. 3951. A mixed sample of pink-fleshed varieties.
127144. No. 3953. Fruit globose, 10 inches in diameter, with equal stripes of light and grass green, the light green flecked with darker green; rind $\frac{1}{2}$ inch thick; flesh yellow, melting, sweet, even so late in the season.
127145. No. 3957. From Chahjul, October 12, at 8,000 feet altitude. A mixed sample of both pink-fleshed and yellow-fleshed varieties.
- Nos. 127146 to 127177. From Khalat, October 12 to 15, at 8,000 feet altitude.
127146. No. 3961. Fruit $12\frac{1}{2}$ by $9\frac{1}{2}$ inches, pale green, with medium stripes of grass green; rind $\frac{1}{2}$ inch thick; flesh pink, of good texture, very sweet.

127119 to 127310—Continued

127147. No. 3962. Fruit globose, 10 inches in diameter, green with narrow stripes of grass green; rind $\frac{1}{2}$ inch thick; flesh pink, good texture, very sweet, first class.
127148. No. 3963. Fruit 16 by 7 inches, very dark green with narrow irregular stripes of paler green; rind $\frac{1}{2}$ inch thick; flesh pink, good texture, sweet.
127149. No. 3964. Fruit 12 by 11 inches, pea green with ribs of reticulated darker green; rind $\frac{1}{2}$ inch thick; flesh pink, some fiber, sweet.
127150. No. 3965. Fruit $11\frac{1}{2}$ by 9 inches, pea green and very dark green in nearly equal irregular stripes; rind $\frac{3}{4}$ inch thick; flesh pink, good texture, sweet.
127151. No. 3966. Fruit somewhat pear-shaped, 11 inches high and 10 inches across, pea green, with faintly indented ribs; rind $\frac{3}{4}$ inch thick; flesh deep pink, somewhat stringy, very sweet.
127152. No. 3967. Fruit 18 by $8\frac{1}{2}$ inches, grass green with broad net of very dark green; rind 1 inch thick; flesh pink, good texture, very sweet.
127153. No. 3968. Fruit grass green, 20 by 8 inches; rind $\frac{3}{4}$ inch thick; flesh pink, good texture, very sweet.
127154. No. 3969. Fruit 13 by 11 inches, very dark green; rind $\frac{3}{4}$ inch thick, flesh pink, good texture, somewhat stringy, very sweet.
127155. No. 3970. Fruit 12 by 13 inches, very dark green; rind $\frac{3}{4}$ inch thick; flesh pink, a little stringy, very sweet.
127156. No. 3971. Fruit 19 by 9 inches, deep green with heavy clouding and netting of very dark green; rind $\frac{1}{2}$ to $\frac{3}{4}$ inch thick; flesh pink, of good texture, very sweet.
127157. No. 3973. Fruit 20 by 9 inches, pea green, reticulated; rind $\frac{3}{4}$ inch thick; flesh bright pink, a little stringy, very sweet.
127158. No. 3972. Fruit 12 by 11 inches, deep grass green; rind $\frac{3}{4}$ inch thick; flesh rose, somewhat stringy, sweet.
127159. No. 3974. Fruit 12 by 10 inches, sea green; rind $\frac{3}{4}$ inch thick; flesh pink, somewhat stringy, sweet.
127160. No. 3975. Fruit 13 by 10 inches, pea green; rind $\frac{5}{8}$ inch thick; flesh pink, good texture, sweet.
127161. No. 3977. Fruit 10 by $14\frac{1}{2}$ inches, deep green with reticulations of very dark green; rind $\frac{1}{2}$ inch thick; flesh pink, of good texture, sweet.
127162. No. 3978. Fruit 14 by 11 inches, grass green; rind $\frac{3}{4}$ inch thick; flesh pink, good texture, very sweet.
127163. No. 3979. Fruit 21 by 9 inches, grass green, heavily netted and fretted with black; rind 1 inch thick; flesh pink, somewhat stringy, very sweet.
127164. No. 3982. Fruit bell-shaped, 12 inches high, pea green, faintly indented ribs; rind $\frac{3}{4}$ inch thick; flesh pink, of good texture, very sweet.
127165. No. 3980. Fruit 20 by 9 inches, grass green, heavily obscured by fretting of darker green; rind $\frac{1}{2}$ to $\frac{3}{4}$ inch thick; flesh pink, somewhat stringy, very sweet.
127166. No. 3981. Fruit 18 by 8 inches, grass green, heavily clouded and netted with very dark green; rind $\frac{1}{2}$ inch thick; flesh rose pink, somewhat stringy, sweet.
127167. No. 3983. Fruit bell-shaped, 12 inches high, grass green, heavily mottled and fretted with very dark green; rind $\frac{1}{2}$ inch thick; flesh pink, a little stringy, sweet.
127168. No. 3989. Fruit 16 by 8 inches, grass green, mottled and veined with darker green; rind $\frac{3}{4}$ inch thick; flesh pink, somewhat stringy, very sweet.
127169. No. 3984. Fruit 14 by 10 inches, pale green, faintly reticulated; rind $\frac{5}{8}$ inch thick; flesh pink, of good texture, very sweet.

127119 to 127310—Continued

127170. No. 3985. Fruit very dark green with some clouding of paler green, usually in the form of broken stripes; rind $\frac{1}{2}$ inch thick; flesh pink, of good texture and sweet.
127171. No. 3986. Fruit 15 by 9 inches, very dark green, with some clouding of lighter green; rind $\frac{5}{8}$ inch thick; flesh pink, somewhat stringy, very sweet.
127172. No. 3987. Fruit 18 by 8 inches, very dark green, with fretting and clouding in elongate patches; rind $\frac{1}{2}$ inch thick; flesh pink, good texture, sweet.
127173. No. 3988. Fruit 18 by $9\frac{1}{2}$ inches, grass green, mottled with darker green; rind $\frac{5}{8}$ inch thick; flesh pink, good texture, sweet.
127174. No. 3994. Fruit 19 by 9 inches, grass green; rind $\frac{1}{2}$ inch thick; flesh pink, of good texture, very sweet.
127175. No. 4000. Fruit 21 by 10 inches, greenish white; rind $\frac{3}{4}$ inch thick; flesh pale rose, of good texture, low in sugar.
127176. No. 4001. Fruit 20 by $8\frac{1}{2}$ inches, grass green; rind $\frac{3}{4}$ inch thick; flesh deep pink, of good texture, very sweet, few seeds.
127177. No. 4010. Fruit 12 by 8 inches, gold with lengthwise blotches of paler gold; rind $\frac{5}{8}$ inch thick; flesh pale rose, fair texture, sweet.
- Nos. 127178 to 127183. From Kandahar, October 16, at 5,000 feet altitude.
127178. No. 4018. Fruit subglobose, 11 inches in diameter, pea green with rib lines of darker green; rind 1 inch thick; flesh deep pink, of poor texture, sweet, seedy.
127179. No. 4019. Fruit globose, 10 inches in diameter, whitish green, obscurely flecked with darker green; rind $\frac{3}{4}$ inch thick.
127180. No. 4025. Fruit globose, 8 inches in diameter, equal streaks of yellow and golden brown; rind $\frac{5}{8}$ inch thick; flesh very pale rose; of good structure, but insipid.
127181. No. 4026. Fruit subglobose, 9 inches in diameter, gold and golden brown; rind $\frac{1}{4}$ inch thick; flesh rose, of good texture, fairly sweet, seedy.
127182. No. 4027. Fruit 14 by 9 inches, sea green, mottled with darker green and with narrow broken irregular ribs of black; rind $\frac{1}{2}$ inch thick; flesh pink, of good texture, sweet.
127183. No. 4028. Fruit 14 by 8 inches, grass green with elongate cloudings of paler green.
127184. No. 4041. From Sardeh, October 18, at 5,000 feet altitude. A mixture of local varieties, well grown, usually 10 by 12 inches, often sweet but generally with a queer flavor and often with a hollow heart.
- Nos. 127185 to 127188. From Yakhchal, October 26; grown in great heat.
127185. No. 4063. Fruit 18 by 9 inches, pea green; rind $\frac{3}{4}$ inch thick.
127186. No. 4064. Fruit 19 by 9 inches, very dark green; rind $1\frac{1}{4}$ inches thick; flesh pink, insipid; very little heart.
127187. No. 4065. Fruit 10 by 15 inches, pea green with narrow, irregularly spaced and irregular very dark green stripes; rind 1 inch thick; flesh pink, of good texture, sweet.
127188. No. 4066. Fruit globose, 12 inches in diameter, pea green; rind $\frac{3}{4}$ inch thick.
127189. No. 4067. From Khushkibakhud, October 26. A mixed sample; grown under great heat.
- Nos. 127190 to 127203. From Girishk, October 27 and 28.
127190. No. 4068. Fruit globose, 10 inches in diameter, pale green, reticulated with darker green; rind $\frac{1}{2}$ inch thick; flesh pink.
127191. No. 4069. Fruit globose, 10 inches in diameter; pale green and pea green in equal lengthwise blotched stripes; rind $\frac{1}{2}$ inch thick; flesh pink.

127119 to 127310—Continued

127192. No. 4070. Fruit globose, 11 inches in diameter, yellow green; rind tough, $\frac{1}{2}$ inch thick; flesh pink.
127193. No. 4071. Subglobose, 12 inches in diameter, pale green, vermiculated with line stripes of darker green.
127194. No. 4072. Fruit subglobose, 11 inches in diameter, indented ribs of grass green, the rest of the surface pea green; rind 1 inch thick.
127195. No. 4073. Fruit 18 by 10 inches, pea green with broad irregular stripes of darker green.
127196. No. 4074. Fruit 16 by 10 inches, grass green with narrow irregular stripes of very dark green; flesh apricot.
127197. No. 4076. Fruit 19 by 9 inches, pea green, vermiculated; rind $\frac{1}{2}$ inch thick; flesh pink.
127198. No. 4077. Fruit 20 by 9 inches, pea green with irregular narrow stripes of very dark green; rind 1 inch thick; flesh pink.
127199. No. 4078. Fruit 16 by 9 inches, sea green; rind $\frac{3}{4}$ inch thick; flesh pink.
127200. No. 4079. Fruit globose, 12 inches in diameter, very dark green; flesh pink.
127201. No. 4080. Fruit 12 by 6 inches, yellow, broadly striped with orange; flesh pale pink, insipid. A runt and out of season.
127202. No. 4081. Fruit 13 by 7 inches, yellow with broad orange stripes; rind $\frac{1}{2}$ inch thick; flesh pale pink, insipid. A runt.
127203. No. 4082. Fruit globose, 8 inches in diameter, yellow striped with orange; rind $\frac{1}{2}$ inch thick; flesh pale rose, insipid. A runt.
127204. No. 4298. From Mazar-i-sharif, December 5. Fruit globose, 12 inches in diameter, sea green with vermiculated ribs; rind $1\frac{1}{4}$ inches thick; flesh pink, sweet, some string. A good keeper.
- Nos. 127205 to 127209. From Girishk, October 28.
127205. No. 4087. Fruit globose, 8 inches in diameter, yellow with orange stripes; rind $\frac{3}{4}$ inch thick; flesh pale rose, insipid.
127206. No. 4085. Fruit globose, 10 inches in diameter, yellow with broad orange stripes; rind $\frac{1}{2}$ inch thick; flesh pale pink, insipid.
127207. No. 4086. Fruit globose, 7 inches in diameter, with orange stripes; rind $\frac{1}{2}$ inch thick; flesh pink.
127208. No. 4087. Fruit globose, 6 inches in diameter, yellow with orange stripes; rind $\frac{3}{8}$ inch thick; flesh pink.
127209. No. 4088. Fruit globose, 10 inches in diameter, yellow with broad orange stripes; rind $\frac{1}{2}$ inch thick; flesh pale pink, insipid.
- Nos. 127210 to 127219. From Farah, October 30.
127210. No. 4099. Fruit flattened, 9 by 10 inches, with faintly indented ribs of dark green, otherwise pea green; rind $\frac{1}{2}$ inch thick; flesh rose, of fair texture and fair sugar content. Grown in great heat.
127211. No. 4100. Fruit 12 by 9 inches, pea green with irregular stripes of darker green; rind $\frac{1}{2}$ inch thick; flesh pale rose, of fair texture, sweet.
127212. No. 4101. Fruit 8 by 14 inches, sea green; rind $\frac{1}{2}$ inch thick; flesh apricot pink, of fair texture, sweet.
127213. No. 4102. Fruit 9 by 13 inches, pea green; rind $\frac{5}{8}$ inch thick; flesh apricot pink, of good texture.
127214. No. 4103. Fruit 7 by 9 inches, flattened, grass green; rind $\frac{1}{2}$ inch thick; flesh apricot pink.
127215. No. 4104. Fruit 8 by 8 inches, pale green with indented ribs; rind $\frac{1}{2}$ inch thick; flesh apricot pink; of good texture, but insipid.

127119 to 127310—Continued

127216. No. 4105. Fruit slightly flattened, 9 by 10 inches, $\frac{1}{2}$ inch thick; flesh apricot pink, of good texture and sweet.

127217. No. 4106. Fruit 14 by 10 inches, whitish green with lengthwise cloudings of darker green; rind $\frac{1}{2}$ inch thick; flesh of good texture, apricot pink, little sugar.

127218. No. 4108. Fruit globose, 10 inches in diameter, whitish green with narrow stripes of pea green; rind $\frac{3}{8}$ inch thick; flesh rose, of good texture, low in sugar.

127219. No. 4112. Fruit globose, 11 inches in diameter, dark green with stripes of darker green; rind $\frac{3}{8}$ inch thick; flesh rich apricot pink, of good texture, sweet.

Nos. 127220 to 127228. From Kang, November 1, at 1,700 feet altitude. The melons of this district are noted for their size and sweetness. These are the remnants of the crop that was harvested a month or two earlier. Grown in great drought.

127220. No. 4113. Fruit subglobose, 11 inches in diameter, slightly flattened, grass green; rind $\frac{1}{4}$ to $\frac{3}{8}$ inch thick; flesh deep apricot pink, of good texture, but low in sugar.

127221. No. 4114. Fruit globose, 11 inches in diameter, sea green with broken vermiculations; rind $\frac{5}{8}$ inch thick; flesh deep apricot pink, of good texture and sweet.

127222. No. 4115. Fruit globose, 10 inches in diameter, deep green; rind $\frac{1}{2}$ inch thick; flesh pink, tinged apricot, of good texture, fairly sweet.

127223. No. 4116. Fruit globose, 8 inches in diameter, sea green with narrow stripes of very dark green; rind $\frac{1}{2}$ inch thick; flesh apricot pink; of good texture, but insipid.

127224. No. 4117. Fruit globose, 8 inches in diameter, pea green; rind $\frac{3}{8}$ inch thick; flesh apricot pink.

127225. No. 4118. Fruit globose, 8 inches in diameter, whitish green with rib lines of darker green; flesh pink, tinged apricot, of fair texture and sweet.

127226. No. 4119. Fruit globose, 10 inches in diameter, yellow green, rind $\frac{3}{8}$ inch thick; flesh bright pink.

127227. No. 4120. Fruit globose, 10 inches in diameter, deep green; rind $\frac{3}{8}$ inch thick; flesh apricot pink.

127228. No. 4121. Fruit globose, 11 inches in diameter, pea green; rind $\frac{1}{2}$ inch thick; flesh pink, of good texture, fairly sweet.

127229. No. 4123. From Milikirki, November 1, at 1,700 feet altitude. A mixed sample of seed grown in great heat and said to be of good quality.

Nos. 127230 to 127248. From Kang, November 2 to 4, at 1,700 feet altitude. [See note under 127220 to 127228.]

127230. No. 4124. Fruit globose, 8 inches in diameter, equally striped with grass green and sea green; rind $\frac{1}{2}$ inch thick; flesh pink, insipid.

127231. No. 4125. Fruit 14 by 7 inches, grass green; rind $\frac{1}{2}$ inch thick.

127232. No. 4126. Fruit 13 by 6 inches, grass green with peeping stripes of light green; rind $\frac{1}{2}$ inch thick.

127233. No. 4127. Fruit globose, pale green with narrow stripes of darker green; rind $\frac{1}{2}$ inch thick.

127234. No. 4128. Fruit globose, 10 inches in diameter, equal stripes of sea green and grass green; rind $\frac{3}{8}$ inch thick; flesh apricot pink.

127235. No. 4129. Fruit globose, 10 inches in diameter, deep green with noticeable stripes of darker green; rind $\frac{3}{8}$ inch thick; flesh bright pink; of good texture, but insipid.

127236. No. 4130. Fruit globose, 10 inches in diameter, grass green with darker vermiculations; rind $\frac{1}{2}$ inch thick; flesh apricot pink.

127119 to 127310—Continued

127237. No. 4131. Fruit globose, 11 inches in diameter, sea green; rind $\frac{3}{8}$ inch thick; flesh bright pink; of good texture, but insipid.
127238. No. 4132. Fruit globose, 10 inches in diameter, dark green; rind $\frac{1}{2}$ inch thick; flesh apricot pink, of good texture.
127239. No. 4133. Fruit globose, 10 inches in diameter, equal stripes of pea green and grass green; rind $\frac{1}{2}$ inch thick; flesh apricot pink.
127240. No. 4134. Fruit globose, 10 inches in diameter, pea green with more or less striping of darker green; rind $\frac{1}{4}$ inch thick; flesh bright pink, of good texture, sweet.
127241. No. 4144. Fruit 13 by 7 inches, pale green, rind $\frac{1}{2}$ inch thick; flesh pink; of good texture, but low in sugar.
127242. No. 4145. Fruit globose, 11 inches in diameter, pale green with narrow very dark green stripes; rind $\frac{3}{8}$ inch thick; flesh pink, of good texture, fairly sweet.
127243. No. 4146. Fruit globose, 10 inches in diameter, with equal stripes of grass green and lighter green; rind $\frac{1}{2}$ inch thick; flesh pink; of good texture, but low in sugar.
127244. No. 4147. Fruit 12 by 7 inches, whitish green with irregular narrow blotched stripes of pea green; rind $\frac{1}{2}$ inch thick; flesh apricot pink, of fair texture, sweet.
127245. No. 4149. Fruit globose, 12 inches in diameter, deep green with broken vermiculations; rind $\frac{3}{8}$ inch thick; flesh deep apricot pink, of good quality.
127246. No. 4150. Fruit globose, 12 inches in diameter; grass green; rind $\frac{1}{2}$ inch thick; flesh apricot pink, of good quality.
127247. No. 4151. Fruit globose, 12 inches in diameter, pale green with handsomely irregular stripes of grass green; rind $\frac{3}{8}$ inch thick; flesh rich apricot pink, of good quality.
127248. No. 4156. Fruit globose, 10 inches in diameter, grass green with stripes of darker green; rind $\frac{1}{2}$ inch thick; flesh pink, of good quality.
- Nos. 127249 to 127253. From Herat, November 12, at 3,000 feet altitude.
127249. No. 4163. Fruit 12 by 9 inches, greenish white; rind $\frac{1}{2}$ inch thick; flesh pink, of good quality; probably a good keeper.
127250. No. 4173. Fruit 14 by 9 inches, sea green; rind $\frac{3}{8}$ inch thick; flesh pink, of good texture, low in sugar; probably a good keeper.
127251. No. 4174. Fruit 12 by 10 inches, sea green; rind $\frac{3}{8}$ to $\frac{1}{2}$ inch thick; flesh deep rose, of good texture and fair sugar content; a good keeper.
127252. No. 4176. Fruit globose, 11 inches in diameter, grass green with narrow stripes of darker green; rind $\frac{1}{2}$ inch thick; flesh apricot pink, of good quality.
127253. No. 4177. Fruit globose, 10 inches in diameter, very dark green; rind $\frac{1}{4}$ inch thick; flesh pink, of good quality.
127254. No. 4196. *Tabuza* or *Henduwana*. From Karokh, November 12, at 3,500 feet altitude. Fruit globose, 10 inches in diameter, very dark green; rind $\frac{1}{2}$ inch thick; flesh of good quality.
127255. No. 4204. From Bala Murghab, at 2,000 feet altitude, November 15. Fruit 12 by 8 inches, pea green with grass-green stripes; rind $\frac{1}{2}$ inch thick; flesh yellow.
- Nos. 127256 and 127257. From Chechaktu, November 15, at 4,000 feet altitude.
127256. No. 4209. Fruit globose, 10 inches in diameter, pale green; rind $\frac{1}{2}$ inch thick; flesh bright pink, of good quality.
127257. No. 4210. Fruit pear-shaped, 12 inches high, pale green; rind $\frac{1}{4}$ inch thick; flesh bright pink, of good quality. The narrow stem end of the fruit is almost seedless, and the rest of the fruit has very few seeds.
- Nos. 127258 to 127267. From Maimana, November 15 to 19, at 2,000 feet altitude.

127119 to 127310—Continued

127258. No. 4211. Fruit 12 by 10 inches, pale green; rind $\frac{1}{2}$ inch thick; flesh pink.
127259. No. 4224. Fruit globose, 10 inches in diameter, pea green with narrow chain stripes of very dark green; rind $\frac{1}{2}$ inch thick; flesh pink, of fair texture, very sweet.
127260. No. 4225. Fruit globose, 10 inches in diameter, pale green with narrow chain stripes of grass green; rind $\frac{3}{8}$ inch thick; flesh rose, very sweet, of good texture.
127261. No. 4226. Fruit 12 by 7 inches, very dark green with paler green stripes; rind $\frac{3}{8}$ inch thick; flesh deep pink. A first-class fruit.
127262. No. 4227. Fruit globose, 10 inches in diameter, pale green with chain stripes of very dark green; rind $\frac{1}{2}$ inch thick; flesh rose-colored, of good quality.
127263. No. 4233. Fruit globose, 8 inches in diameter, pale green with irregular narrow stripes of darker green; rind $\frac{1}{2}$ inch thick; flesh pink, of fair texture, very sweet.
127264. No. 4234. Fruit 12 by 10 inches, pale green; rind $\frac{1}{2}$ inch thick; flesh pink, of fair texture, sweet.
127265. No. 4236. Fruit 12 by 10 inches, pea green, heavily clouded and mottled with darker green; rind $\frac{1}{2}$ inch thick; flesh pink, of fair texture, very sweet.
127266. No. 4237. Fruit globose, 10 inches in diameter, dark green; rind $\frac{1}{2}$ inch thick; flesh bright pink, of good quality.
127267. No. 4244. Fruit pear-shaped, 12 inches long, greenish white; rind $\frac{1}{2}$ inch thick; flesh pink, sweet, not inclined to be seedless.
127263. No. 4245. From Daulatabad, November 19, at 1,500 feet altitude. Fruit sea green, globose, 10 inches in diameter, ribs distinctly indented; rind $\frac{1}{2}$ inch thick, flesh pink, of good texture, very sweet.
- Nos. 127269 to 127282. From Andkhin, November 20 to 23, at 1,500 feet altitude.
127269. No. 4246. Fruit subglobose, 12 inches in diameter, sea green with traces of vermiculations; rind $\frac{1}{2}$ inch thick.
127270. No. 4247. Fruit 18 by 10 inches, grass green with stripes of lighter green; rind $\frac{3}{4}$ inch thick; flesh pink, of good texture and very sweet.
127271. No. 4248. Fruit 18 by 10 inches, irregularly elongate, grass green with cloudy stripes of lighter green; rind $\frac{3}{4}$ inch thick; flesh pink, very sweet.
127272. No. 4249. Fruit 15 by 10 inches, sea green with traces of vermiculation; rind $\frac{5}{8}$ inch thick; flesh bright pink, very sweet.
127273. No. 4250. Fruit 12 by 10 inches, pea green, vermiculated with darker green; rind $\frac{1}{2}$ inch thick; flesh bright pink, of fair texture and fair sugar content.
127274. No. 4251. Fruit 15 by 10 inches, very dark green; rind $\frac{3}{4}$ inch thick; flesh apricot pink, of fair texture and sweet.
127275. No. 4252. Fruit 15 by 10 inches; very dark green; rind $\frac{3}{4}$ inch thick.
127276. No. 4253. Fruit 14 by 12 inches, grass green and very dark green in equal cloud stripes; rind $\frac{3}{4}$ inch thick; flesh apricot pink.
127277. No. 4254. Fruit 13 by 10 inches, very dark green with cloudings of lighter green; rind 1 inch thick, ribbed.
127278. No. 4255. Fruit 15 by 12 inches, grass green with cloudings of very dark green; rind $\frac{3}{4}$ inch thick; flesh bright pink, of good texture and sweet.
127279. No. 4257. Fruit 14 by 10 inches, very dark green with cloudings of slightly lighter green; rind $\frac{3}{4}$ inch thick; flesh rose, of fair texture, sweet.
127280. No. 4258. Fruit flattened, 14 by 10 inches, with conspicuously indented ribs, very dark green; rind 1 inch thick; flesh rose, of fair texture, sweet.

127119 to 127310—Continued

127281. No. 4259. Fruit 18 by 10 inches, irregularly elongate, mottled grass green; rind $\frac{3}{4}$ inch thick; flesh bright rose, of good quality.
127282. No. 4265. Fruit 15 by 10 inches, ribbed, reticulated, pea green; rind $\frac{5}{8}$ inch thick; flesh apricot pink, of good quality.
- Nos. 127283 to 127299. From Balkh, November 28 to December 3.
127283. No. 4275. Fruit 18 by 10 inches, pea green, vermiculated with darker green; rind $\frac{1}{2}$ inch thick; flesh pink, of good quality.
127284. No. 4276. Fruit 12 by 10 inches, very dark green; rind $\frac{3}{8}$ inch thick; flesh deep rose, of good quality.
127285. No. 4277. Fruit globose, 12 inches in diameter, ribbed, sea green and vermiculated with darker green; rind $\frac{3}{4}$ inch thick; flesh pink; sweet, but slightly stringy.
127286. No. 4278. Fruit flattened, 12 by 10 inches, grass green, vermiculated with darker green; rind $\frac{1}{2}$ inch thick; flesh pink, very sweet, of fair texture.
127287. No. 4279. Fruit 13 by 8 inches, very dark green with faint elongate blotches; rind $\frac{1}{2}$ inch thick; flesh pink, of good quality.
127288. No. 4280. Fruit 10 by 8 inches, very dark green; rind $\frac{1}{2}$ inch thick; flesh pink, of good quality.
127289. No. 4281. Fruit 15 by 10 inches, very dark green; rind $\frac{3}{4}$ inch thick; flesh pink, very sweet, of good texture.
127290. No. 4283. Fruit globose, 14 inches in diameter, sea green with a vermiculated chain rib; rind $\frac{1}{2}$ inch thick; flesh pink, of excellent quality.
127291. No. 4284. Fruit 16 by 10 inches, dark green; rind $\frac{1}{2}$ inch thick; flesh rose, of excellent quality.
127292. No. 4285. Fruit 15 by 10 inches, with equal blotch stripes of very dark green and paler green; rind $\frac{5}{8}$ inch thick; flesh pink, of good quality.
127293. No. 4287. Fruit globose, 12 inches in diameter, very dark green; rind $\frac{3}{4}$ inch thick; flesh deep rose, of good quality.
127294. No. 4289. Fruit 12 by 10 inches, with equal stripes of pea green and grass green, ribbed; rind $\frac{3}{4}$ inch thick; flesh pink, of good quality.
127295. No. 4292. Fruit globose, 12 inches in diameter, very dark green, clouded with paler green; rind $\frac{5}{8}$ inch thick; flesh of good texture and fair sugar; apricot colored next to the rind, shading to peach pink toward the heart.
127296. No. 4294. Fruit pear-shaped, 12 inches long, pea green, vermiculated; rind $\frac{1}{2}$ to $\frac{5}{8}$ inch thick; flesh bright peach pink, of excellent quality. This form tends to have few seeds.
127297. No. 4295. Fruit globose, 11 inches in diameter, very dark green, deeply ribbed; rind $\frac{3}{4}$ inch thick; flesh pink, sweet, rather stringy.
127298. No. 4296. Fruit globose, 12 inches in diameter, very dark green with paler stripes; rind $\frac{3}{4}$ inch thick; flesh pink, of good quality.
127299. No. 4297. Fruit globose, 12 inches in diameter, grass green, ribbed; rind $\frac{3}{4}$ inch thick; flesh rose, sweet, rather stringy.
127300. No. 4299. From Mazar-i-Sharif, December 5. Fruit globose, 11 inches in diameter, pea green, vermiculated with darker green; rind $\frac{1}{4}$ inch thick; flesh pink, sweet, somewhat stringy.
- Nos. 127301 to 127305. From Pul-i-Kumri, December 8.
127301. No. 4303. Fruit globose, 13 inches in diameter, grass green with narrow dark green stripes; rind $\frac{3}{4}$ inch thick; flesh pink, sweet but slightly stringy.
127302. No. 4304. Fruit globose, 11 inches in diameter, with equal stripes of grass green and pea green; rind $\frac{5}{8}$ inch thick; flesh pink, of good quality.
127303. No. 4305. Fruit globose, 10 inches in diameter, very dark green; rind $\frac{1}{2}$ inch thick; flesh pink, of good quality.

127119 to 127310—Continued

127304. No. 4306. Fruit 16 by 9 inches, sea green with coarse vermiculations; rind $\frac{1}{2}$ inch thick; flesh pink, of good quality.

127305. No. 4307. Fruit 15 by 10 inches, grass green; flesh pink, of good quality; rind $\frac{5}{8}$ inch thick.

Nos. 127306 to 127308. From Doshi, December 9.

127306. No. 4308. Fruit globose, 10 inches in diameter, grass green; rind $\frac{1}{2}$ inch thick; flesh pink, of good quality.

127307. No. 4309. Fruit globose, 10 inches in diameter, pea green with broken vermiculations; rind $\frac{1}{2}$ inch thick; flesh pink, of good texture and quality.

127308. No. 4310. Fruit globose, 8 inches in diameter; rind $\frac{1}{2}$ inch thick; flesh pale rose, of fair quality.

Nos. 127309 and 127310. From Doao, December 12.

127309. No. 4311. Fruit globose, 10 inches in diameter, sea green, fretted with darker green and with narrow grass green stripes; rind $\frac{1}{2}$ inch thick; flesh yellow, of good quality.

127310. No. 4312. Fruit globose, 8 inches in diameter, pea green with broken vermiculations; rind $\frac{1}{2}$ inch thick; flesh yellow, of good quality, but seedy.

127311 to 127318.

From France. Plants purchased from Pepinières LePage et Cie., Angers, Maine-et-Loire. Received February 21, 1938.

127311 to 127316. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

127311. *Amère de Berthe court.*

127314. *Fertile de Falaise.*

127312. *Belle du Désert.*

127315. *Médaille d'Or.*

127313. *Eliza Radtke.*

127316. *Reinette de Champagne.*

127317 and 127318. *PYRUS COMMUNIS* L. Malaceae.

Common pear.

127317. *Président Loubet.*

127318. *Suprême de Quimper.*

127319. *PELAGODOXA HENRYANA* Beccari. Phoenicaceae.

Palm.

From the Society Islands. Seeds presented by Harrison W. Smith, Tahiti. Received February 23, 1938.

An unarmed palm with a trunk 18 to 24 feet high and 5 to 7 inches in diameter which grows on stilt roots like a pandanus; the blades are 6 to 9 feet long and petioles about 3 feet long. The large spherical fruits are in racemes of 12 to 16. The palm requires shade and is of very striking appearance. Native to the Marquesas Islands.

127320 to 127349.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received February 9, 1938.

Unless otherwise noted, this material was all obtained through Chamba Tsering, of Kampur, Nubra, Kashmir State, December 31, 1937.

127320. *ALLIUM CEPA* L. Liliaceae.

Onion.

No. 4353. *Tsong.* Grown in Yarkand.

127321. *AMARANTHUS GANGETICUS* L. Amaranthaceae.

Ganges amaranth.

No. 4249. A potherb; from Yarkand.

127322. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

No. 4365. From Yarkand.

127323. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

No. 4378. Received January 4, 1938, from I. M. Shah, of the North West Frontier Province, Department of Agriculture, at Serai Naurang, Bannu District. A yellow-fleshed, local variety.

127320 to 127349—Continued

127324 to 127328. *CAPSICUM FRUTESCENS* L. Solanaceae. **Common redpepper.**

127324. No. 4369. *Merch.* From Mathura, Chamba State, December 29, 1937; originally from somewhere in the Himalayan foothills. Fruit orange, 2 by $\frac{3}{8}$ inches; hot.

Nos. 127325 to 127328 were received January 4, 1938, from the Superintendent, Botanical Substation, Pusa, Bihar.

127325. No. 4374. *Pusa Type No. 41.*

127326. No. 4375. *Pusa Type No. 51.*

127327. No. 4376. *Pusa Type No. 4.*

127328. No. 4377. *Pusa Hybrid 2-54-1 T 29 × T 14.*

127329. *CHENOPODIUM* sp. Chenopodiaceae.

No. 4359. *Paltara.*

127330. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae.

Watermelon.

No. 4364. Said to have come from Yarkand.

127331. *CRATAEGUS* sp. Malaceae.

No. 4379. *Lakot.* Received January 4, 1938, from Skardo, Baltistan. An attractive tree which is used as a stock for quinces.

127332. *CUCUMIS MELO* L. Cucurbitaceae.

Muskmelon.

No. 4367. From Yarkand.

127333. *CUCURBITA MAXIMA* Duchesne. Cucurbitaceae.

Squash.

No. 4366. From Yarkand.

127334. *GNETUM SCADENS* Roxb. Gnetaceae.

No. 4381. January 4, 1938. Presented by the District Forest Officer, Mangalore. A stout woody climber with a compressed trunk 4 or 5 feet in girth and smooth, shining oblong or ovate leaves about 6 inches long. Native to eastern India and the Malayan region.

127335. *LACTUCA SATIVA* L. Cichoriaceae.

Garden lettuce.

No. 4360. *Dum.* From Yarkand.

127336. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

No. 4348. *Oal.* From Yarkand.

127337. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

No. 4362. *Reshka* or *Oal.* From Yarkand.

127338. *POPULUS* sp. Salicaceae.

No. 4350. A locally grown tree.

127339. *PUNICA GRANATUM* L. Punicaceae.

Pomegranate.

No. 4363.

127340. *PUNICA GRANATUM* L. Punicaceae.

Pomegranate.

No. 4368. *Bedana.* Collected at Mathura, India, December 29, 1937, but the fruit probably came from Afghanistan. Fruit 4 inches in diameter; shell dry, pinkish; juice pink, sweet; pericarp not acrid, soft.

127341. *ROSA* sp. Rosaceae.

Rose.

No. 4357.

127342. *ROSA* sp. Rosaceae.

Rose.

No. 4361.

127343 to 127346. *SALIX* spp. Salicaceae.

Willow.

There are several different handsome willows at Kampuk; some resemble *Buxus* and some *Tamarix*.

127320 to 127349—Continued

127343. *SALIX* sp.

No. 4352.

127344. *SALIX* sp.

No. 4354.

127345. *SALIX* sp.

No. 4356.

127346. *SALIX* sp.

No. 4358.

127347 and 127348. *TRITICUM AESTIVUM* L. Poaceae.

Common wheat.

From Sanchi Bhopal, January 3, 1938.

127347. No. 3470. *Pici*. One of the best of Indian wheats, now 3 to 4 inches high; it grows in winter in a region of less than 30 inches of rain and is very drought-resistant.127348. No. 4371. *Gao*. Like No. 3470 [P. I. 127347], but a poorer quality.127349. *ZEA MAYS* L. Poaceae.

Corn.

No. 4347. December 21, 1937. Received from the Secretariat of the Chamba State; said to have come from Tarlognath, Chamba, at about 9,000 feet altitude.

127350 to 127385.

From France. Plants bought from Pépinières Baltet Frères, Troyes (Aube). Received February 21, 1938.

127350 to 127353. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

127350. *Gaillard-Girerd II*.127352. *Madame Grande Clement*.127351. *Madame Girerd*.127353. *Veloutée de Champagne*.127354 to 127370. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

127354. *Belle-fleur*.127363. *Impériale*.127355. *Calville Duquesne*.127364. *Ménagère*.127356. *Calville Rouge d'Oullins*.127365. *Nez de Chat*.127357. *D'Averolles*.127366. *Tambour d'Himbsel*.127358. *De Flandres*.127367. *Reinette du Vigan*.127359. *Double Rose*.127368. *Reinette Grise Parmentier*.127360. *Faro*.127369. *Reinette Jules Labitte*.127361. *Géante d'Exposition*.127370. *Teint Frais*.127362. *Gros Locard*.127371 to 127380. *PRUNUS AVIUM* L. Amygdalaceae.

Sweet cherry.

127371. *Espéren*.127376. *Guigne Pourpré Hâtive*.127372. *Gros Noir*.127377. *Guigne Précoce de Tarascon*.127373. *Grosse Transparente*.127378. *Hâtif Burlat*.127374. *Guigne Choque*.127379. *Luizet*.127375. *Guigne d'Annonay*.127380. *Marmotte*.127381 to 127385. *PYRUS COMMUNIS* L. Malaceae.

Common pear.

127381. *Beurré Baltet Père*.127382. *Beurré Gris d'Amboise*.127383. *Calebasse Madame Charles Furst*.127384. *Fondante de Croncels*.127385. *Virginie Baltet*.

127386 to 127388.

From California. Seeds presented by Mrs. Edith V. A. Murphey, Potter Valley, Mendocino County. Received February 23, 1938.

127386. AMYGDALUS PERSICA L. Amygdalaceae.

Peach.

A peach grown by the Indians of this area.

127387. PHASEOLUS COCCINEUS L. Fabaceae.

Scarlet runner bean.

Aztec beans, hardy, drought-resistant; will bear the second year from the old root.

127388. PHASEOLUS VULGARIS L. Fabaceae.

Common bean.

Pinto beans, from Schmidtlein's ranch.

127389 to 127392. FRAGARIA spp. Rosaceae.

Strawberry.

From Scotland. Plants presented by the Department of Agriculture for Scotland, Edinburgh. Received February 6, 1938.

Strawberry seedlings grown at the West Scotland Experiment Station, Auchincruive, Ayr.

127389. Selection C. C. 18.

127391. Selection B. K. 48.

127390. Selection B. K. 46.

127392. Selection B. K. 52.

127393 to 127395. PRUNUS spp. Amygdalaceae.

From Hungary. Scions presented by Dr. A. P. Bunzlau, Experiment Station, Kecskemet. Received February 28, 1938.

127393. PRUNUS ARMENIACA L.

Apricot.

Rozsabarack. A very large late variety.

127394. PRUNUS sp.

A cherry [received without notes].

127395. PRUNUS sp.

A cherry [received without notes].

127396 to 127398.

From Mexico. Seeds collected by Mrs. Ynes Mexia, Bureau of Plant Industry, United States Department of Agriculture. Received February 24, 1938.

127396. BOMAREA OLIGANTHA Baker. Amaryllidaceae.

No. 9085-A. January 5, 1938. From Petlacala, Minas Sierra Madre del Sur, Guerrero, at about 4,000 feet altitude, in mountain forest. A bomarea with slender elongate sarmentose stems, thin, lax, oblong leaves 3 to 4 inches long, and 6 to 8 flowers in simple umbels. The perianth segments are about 1 inch long, the outer, oblanceolate dull red outside, the inner, cuneate-clawed, bright yellow with brown spots. Native to the Peruvian Andes.

127397. DIOSCOREA sp. Dioscoreaceae.

No. 8716-A. *Bejuco Costillude Huaco.* November 1, 1938. From Barranca de la Julia, Adama Temisco, north of Río Balsas, Guerrero. A vine with thickened roots, found climbing over small trees near streams.

127398. CLITORIA TERNATEA L. Fabaceae.

No. 8717-A. November 1, 1937. *Manga de Niño.* From Temisco, Adama, Guerrero, in the gardens of the mining building at about 1,000 feet altitude. A vine up to 7 feet long with deep-blue flowers.

For previous introduction see 117390.

127399 to 127415.

From Germany. Plants purchased from the Wile, Teickner Baumschulen, Gernrode-Harz. Received March 1, 1938.

127399 to 127415—Continued

127399 to 127415. *PRUNUS* spp. Amygdalaceae.127399 to 127401. *PRUNUS AVIUM* L.

Sweet cherry.

127399. *Ampfurter Schiv. Knorpelkirsche.*127400. *Badeborner Dunkelbraun Knorpelkirsche.*127401. *Braunaur.*127402 and 127403. *PRUNUS CERASUS* L.

Sour cherry.

127402. *Diemitzer Amarelle.*127403. *Excellenz von Hindenburg.*127404 to 127409. *PRUNUS AVIUM* L.

Sweet cherry.

127404. *Fromms Herzkirsche.*127405. *Frühe Französische.*127406. *Frühe Werdersche.*127407. *Grosse Prinzessenkirsche.*127408. *Grosse Schwarze Knorpelkirsche.*127409. *Kunzes Kirsche.*127410. *PRUNUS CERASUS* L.

Sour cherry.

*Leitzkauer Pressauerkirsche.*127411 to 127413. *PRUNUS AVIUM* L.

Sweet cherry.

127411. *Schneiders Späte Knorpelkirsche.*127412. *Teickners Schwarze Knorpelkirsche.*127413. *Harzer Gebirgsvögelkirsche.*127414 and 127415. *PRUNUS DOMESTICA* L.

Common plum.

127414. *Bühler Frühzevetsche.*127415. *Wagenheims Frühsweitsche.*127415. *PYRUS COMMUNIS* L. Malaceae.

Common pear.

Gernroder Winterbirne.

127416 to 127486.

From India and Afghanistan. Seeds and bulbs collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received February 15, 1938.

Unless otherwise mentioned, the material was collected in Afghanistan and received as seeds.

127417. *ABELMOSCHUS ESCULENTUS* (L.) Moench. Malvaceae.

Okra.

No. 4110. From Farah, October 31, 1937. Fruit 4 to 5 inches long.

127418 to 127422. *ALLIUM CEPA* L. Liliaceae.

Onion.

127418. No. 3004. *Piyaz.* From Gardez, June 16, 1937, at 8,000 feet altitude. A red globe onion.127419. No. 3939. *Piyaz.* From the market at Ghazni, October 8, 1937, at 8,000 feet altitude. A flat, purple-red and white onion, 4 inches in diameter.127420. No. 3997. *Piyaz.* From the market at Khalat, October 14, 1937, at 8,000 feet altitude. A white or purple-red onion, much flattened and up to 4 inches across.127421. No. 4166. *Piyaz.* From the market at Herat, November 12, 1937, at 3,000 feet altitude. A flat onion, about 3 inches across, purple-red, rarely white; the white ones are rather mild.

127422. No. 4269. From the market at Andkhin, November 25, 1937. A flat onion, usually about 5 inches across, white or red; of good quality, grown in a hot climate.

127416 to 127486—Continued

127423 and 127424. *ALLIUM SATIVUM* L. Liliaceae.

Garlic.

127423. No. 4272. *Sio*. Bulblets from Andkhin, November 25, 1937. Climate very hot in summer.

127424. No. 4328. Bulb from Charikar, December 25, 1937.

127425. *SPINACIA OLERACEA* L. Chenopodiaceae.

Common spinach.

No. 4192. *Palak*. From Herat, October 13, 1937, at 3,000 feet altitude.

Nos. 127426 to 127428. From Londa, Bombay Presidency, India, January 23, 1938, at 2,000 feet altitude.

127426. *GENTIANA* sp. Gentianaceae.

A plant with nymphaealike leaves about 6 inches across and an abundance of fragrant white flowers about 1 inch across with yellow centers. The petals are delicately dissected; one of the handsomest of aquatics.

127427. *NYMPHAEA* sp. Nymphaeaceae.No. 4385. The large white flowers, $4\frac{1}{2}$ inches across, rather coarse, but extremely fragrant, are borne 6 inches above the surface in ponds 4 feet deep. They bloom in the daytime in the cold season.127428. *NYMPHAEA* sp.

No. 4386. The very fragrant, pale-pink flowers, 3 inches across, are borne about 5 inches above the surface in shallow ponds. A day bloomer.

127429 to 127433. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

Nos. 127429 to 127432. *Shaftalu*. From Kabul, October 6, at 7,000 feet altitude.

127429. No. 3913. Fruit globose, 3 inches in diameter, mostly crimson; flesh cream; a clingstone of good flavor.

127430. No. 3914. Fruit globose, $1\frac{3}{4}$ inches in diameter, yellow; flesh yellow; a freestone of good flavor.127431. No. 3915. Fruit subglobose, $1\frac{3}{4}$ inches in diameter, nearly two-thirds crimson; flesh yellow, a clingstone of good flavor.127432. No. 3916. Fruit globose, $1\frac{3}{4}$ to $2\frac{1}{4}$ inches in diameter, green yellow with red cheek; flesh white, stained red at the pit; a freestone.

127433. No. 3942. From Ghazni, October 8, 1937, at 8,000 feet altitude. A clingstone 2 inches high, yellow with a crimson cheek; flesh cream of good flavor.

127434. *AMYGDALUS* sp. Amygdalaceae.

No. 4318. From Kabul, December 12, 1937. Said to have come from the Hindu Kush Range nearby; fruit edible; plant possibly ornamental.

127435 to 127437. *BETA VULGARIS* L. Chenopodiaceae.

Common beet.

127435. No. 3940. *Lablabu* or *Chakundur*. From the market at Ghazni, October 8, 1937, at 8,000 feet altitude. A red beet, in form like a mangel-wurzel.1279436. No. 4181. *Chakundur*. From Herat, October 13, 1937, at 3,000 feet altitude. A long red beet.127437. No. 4221. *Chakundur*. From Maimana, October 16, 1937, at 2,000 feet altitude. A mixed sample of red and white beets.127438 to 127441. *BRASSICA* spp. Brassicaceae.127438. *BRASSICA OLERACEA CAPITATA* L.

Cabbage.

No. 4188. *Karm*. From Herat at 3,000 feet altitude, November 13, 1937. Heads small, round, of good quality; probably adapted to heat.127439. *BRASSICA OLERACEA GONGYLODES* L.

Kohlrabi.

No. 4189. From Herat, at 3,000 feet altitude, November 13, 1937.

127416 to 127486—Continued

127440 and 127441. *BRASSICA RAPA* L.**Turnip.**

127440. No. 4006. *Shelgam*. From Khalat, October 14, 1937. A purple-red globe turnip. Those in the fields are sweet and tender.

127441. No. 4170. *Shelgam*. From Herat, at 3,000 feet altitude, November 12, 1937. A top-shaped yellowish turnip of good quality.

127442 to 127445. *CAPSICUM FRUTESCENS* L. Solanaceae. **Common redpepper.**

127442. No. 3925. From Ghazni, October 7, 1937, at 8,000 feet altitude. Cherrylike peppers, hot.

127443. No. 4047. From Kandahar, October 18, 1937, at 5,000 feet altitude. Fruit scarlet crimson, bullnose, 3 by 2 inches, hot.

127444. No. 4109. From Farah, October 31, 1937, at 2,000 feet altitude. Fruit pointed, $3\frac{1}{2}$ inches long by $1\frac{1}{2}$ inches at the base, crimson and mildly hot.

127445. No. 4232. From Maimana, November 18, 1937, at 2,000 feet altitude. Fruit bullnosed, 4 by 2 inches, scarlet to crimson and hot.

127446 to 127454. *DAUCUS CAROTA* L. Apiaceae.**Carrot.**

127446. No. 3937. *Zardak*. From Ghazni, October 8, 1937, at 8,000 feet altitude. A long yellow carrot with no fiber and little sugar.

127447. No. 4148. *Zardak*. From the market at Kang, November 3, 1937, at 1,700 feet altitude.

127448. No. 3976. From Khalat, October 12, 1937, at 8,000 feet altitude. A long reddish carrot.

127449. No. 4049. *Zardak*. From the market at Kandahar, October 19, 1937. A deep reddish-purple carrot.

127450. No. 4090. From Girishk, October 28, 1937. A long pale-yellow, fairly sweet carrot of good texture. Sown for fall and winter use.

127451. No. 4169. *Zardak*. From Herat, November 12, 1937.

127452. No. 4186. *Zardak*. From Herat, November 13, 1937, at 3,000 feet altitude. Probably a mixed sample of pale yellow and long red carrots.

127453. No. 4222. *Zardak*. From Maimana. A mixture of smooth, long yellow and purple-red carrots. Some have fiber and others none; good.

127454. No. 4270. *Zardak*. From the market at Andkhin, October 25, 1937. A long smooth, yellow carrot.

127455 to 127457. *FICUS* spp. Moraceae.**Fig.**127455. *FICUS* sp.

No. 3826. From Balkh, September 19, 1937, at 1,200 feet altitude. A shrub with an unbranched or little divided stem for 6 to 10 feet, growing in clumps. Fruit $1\frac{1}{2}$ inches in diameter, reddish purple, good. The shrub tolerated 3 months of snow and ground freezing a few inches.

127456. *FICUS* sp.

No. 3898. From Kabul, September 27, 1937, at 7,000 feet altitude. Fruit $1\frac{1}{2}$ inches in diameter, red-purple, insipid. The shrub grows here in sub-zero temperatures.

127457. *FICUS* sp.

No. 4095. From Girishk, October 28, 1937. Said to be local. Shrub 15 feet high, with trunks 3 inches through, growing in clumps. Will tolerate below-freezing temperatures.

127458 to 127461. *JUGLANS REGIA* L. Juglandaceae.**Persian walnut.**

Charmaghz. Trees tolerate sub-zero temperatures.

127458. No. 3929. From Ghazni, October 7, 1937, at 8,000 feet altitude.

127459. No. 4322. From Paghman, December 13, 1937.

127416 to 127486—Continued

127460. No. 4323. From Paghman, December 13, 1937.
127461. No. 4324. From Paghman, December 13, 1937. These nuts have thinner shells than Nos. 4322 and 4323 [P. I. 127459 and 127460].
- 127462 and 127463. LAGENARIA LEUCANTHA (Duchesne) Rusby. Cucurbitaceae. Calabash gourd.**
127462. No. 3956. From Mukkur, October 10, 1937, at 8,500 feet altitude. An ornamental fruit 1 foot long.
127463. No. 4185. *Chobkadu*. From Herat, November 13, 1937, at 3,000 feet altitude.
- 127464 to 127466. LUFFA ACUTANGULA (L.) Roxb. Cucurbitaceae. Singkwa towelgourd.**
127464. No. 4021. *Tori*. From Kandahar, October 16, 1937, at 5,000 feet altitude. Fruit 1 foot by 5 inches.
127465. No. 4193. *Tori*. From Herat, November 13, 1937.
127466. No. 4274. From Andkhin, November 25, 1937. The fresh young fruits are esteemed as a vegetable.
- 127467 to 127469. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.**
127467. No. 4107. From Girishk, October 29, 1937. Fruits red, elongate to globose, 2 by 3 inches. Grown under high temperatures.
127468. No. 4111. From Farah, October 31, 1937. Fruits red globose, 1½ inches in diameter. The plants are extraordinarily vigorous and productive, tolerate great heat, and all are healthy.
127469. No. 4182. *Benjanerunie*. From Herat, November 13, 1937, at 3,000 feet altitude.
- 127470. PHASEOLUS VULGARIS L. Fabaceae. Common bean.**
- No. 4329. From Kabul, December 14, 1937. Possibly an introduced variety.
- 127471 to 127477. PRUNUS spp. Amygdalaceae. Apricot.**
- 127471 to 127475. PRUNUS ARMENIACA L.**
- Nos. 127471 to 127474. From Kandahar, October 17, 1937, at 5,000 feet altitude.
127471. No. 4031. Dried fruit of good quality, 1 by 1¼ inches, apparently pale yellow when fresh, very sweet, seed edible.
127472. No. 4032. Dried fruit, apparently yellow when fresh, 1¼ by 1½ inches, very sweet and fleshy; seed edible.
127473. No. 4033. A mixed sample.
127474. No. 4034. Dried fruit, apparently yellow when fresh; 1½ by 1¼ inches, very sweet and fleshy; seed edible.
127475. No. 4036. From Sardeh, October 18, 1937, at 5,000 feet altitude. A mixed sample.
- 127476 and 127477. PRUNUS DOMESTICA L. Common plum.**
127476. No. 3920. From Ghazni, October 7, 1937, at 8,000 feet altitude. Fruit ellipsoid, 1¼ inches long, blue; flesh yellow, tender, good, a free-stone.
127477. No. 4030. From Kandahar, October 7, 1937, at 5,000 feet altitude. Dried fruit, like medium dried prunes in size and color; sour.
- 127478 to 127480. RAPHANUS SATIVUS L. Brassicaceae. Radish.**
127478. No. 4183. *Muli*. From Herat, November 13, 1937, at 3,000 feet altitude. A long radish; probably white or red.
127479. No. 4190. *Muli*. From Herat, November 13, 1937, at 3,000 feet altitude. A white, top-shaped radish.
127480. No. 4271. *Muli*. From Andkhin, November 25, 1937. A large winter type of radish.

127416 to 127486—Continued**127481. RUBUS sp. Rosaceae.**

No. 4044. From Sardeh, October 18, 1937, at 5,000 feet altitude. A blackberry bush 6 feet high or, becoming scandent, it may reach 10 feet; leaves deeply notched, $2\frac{1}{2}$ by $2\frac{1}{2}$ inches; fruits in a long loose raceme over 6 inches long, rather abundant; raspberry shaped, $\frac{1}{4}$ inch across, black, no bloom, pleasantly acid, retaining placenta in blackberry fashion.

127482 to 127485. SOLANUM MELONGENA L. Solanaceae. Eggplant.

127482. No. 3938. *Banjan*. From Ghazni, September 8, 1937, at 8,000 feet altitude. A long purple variety.

127483. No. 4020. *Banjan*. From Kandahar, October 16, 1937, at 5,000 feet altitude. Fruit elongate, 8 by 4 inches, tapered; greenish to purple.

127484. No. 4191. *Banjan*. From Herat, November 13, 1937, at 3,000 feet altitude. A long purple variety.

127485. No. 4264. *Banjan*. From Andkhin, November 23, 1937.

127486. VITIS VINIFERA L. Vitaceae. European grape.

No. 3943. *Lal*. From Ghazni, October 8, 1937, at 8,000 feet altitude. Introduced probably from Kabul or Kandahar; fruit apricot-cheeked, pink, cranberry texture, sweet and well-flavored.

127487 to 127511. ZEA MAYS L. Poaceae. Corn.

From Czechoslovakia. Seeds presented by the Ministry of Agriculture, Prague. Received March 3, 1938.

127512. AGROPYRON TRACHYCAULUM (Link) Malte. Poaceae. Slender wheatgrass.

From Canada. Seeds presented by the Division of Forage Plants, Central Experimental Farm, Ottawa, Ontario, at the request of Dr. M. O. Malte, University of Alberta, Edmonton, Alberta. Received March 1, 1938.

*Fyra S.2.***127513. CRINUM PODOPHYLLUM Hook. Amaryllidaceae.**

From Surinam. Bulbs collected by W. A. Archer, Bureau of Plant Industry, United States Department of Agriculture. Received January 15, 1935. Numbered in March 1938.

No. 2945-A. A crinum with a rosette of 5 or 6 spreading, undulate, lanceolate leaves about a foot long and a scape about as long, with several large milk-white flowers. The perianth limb, about 3 inches long, is tinted with green outside. Native to western tropical Africa.

127514 to 127517. MELLILLOTUS ALBA Desr. Fabaceae. White sweetclover.

From Canada. Seeds presented by the Dominion Forage Crops Laboratory, University of Saskatchewan, Saskatoon, Saskatchewan. Received March 1, 1938.

127514. S-30-58-82. Mottled seed; plant ordinary sweetclover type.

127515. S-30-58-97. Mottled seed; plant dwarf branching type.

127516. S-268 (selfed); a late-flowering type.

127517. S-26-11-2-4. White sepals; plant dwarf branching type.

127518. VIGNA SINENSIS (Torner) Savi. Fabaceae. Cowpea.

From Australia. Seeds presented by Robert Veitch, Chief, Bureau of Plant Research, Department of Agriculture, Brisbane, Queensland. Received March 1, 1938.

A black-seeded, drought-resistant variety.

127519 to 127621.

From India and Afghanistan. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received February 18, 1938.

Unless otherwise mentioned, the material was collected in Afghanistan in 1937.

127519 to 127584. CUCUMIS spp. Cucurbitaceae.**127519 to 127578. CUCUMIS MELO L.****Muskmelon.**

127519. No. 3005. From Gardez, June 16, at 8,000 feet altitude.

127520. No. 3001. From Madagha, June 15.

Nos. 127521 to 127541. From Haibak, September 24, at 2,000 feet altitude.

127521. No. 3869. Fruit 10 by 7 inches, hard shell, pale yellow, mottled green with traces of coarse net; flesh $1\frac{3}{4}$ inches thick, green, good.

127522. No. 3870. Like No. 3869 [P. I. 127521], but with creamy white flesh.

127523. No. 3871. Fruit obovoid, 6 inches in diameter, with faintly indented ribs of pale green, feather-edged black, and with pale-green islands; nearly smooth; flesh 2 inches thick, creamy green, good.

127524. No. 3872. Fruit obovoid, 9 inches in diameter, pale green with narrow irregular stripes and spots of very dark green; flesh $1\frac{3}{4}$ inches thick, creamy white, good.

127525. No. 3873. Fruit elongate-ovoid, 7 inches in diameter, pale green with leaf-green ribs, feather-edged with black; flesh $1\frac{1}{2}$ inches thick, salmon, insipid.

127526. No. 3874. Fruit subglobose, 6 inches in diameter, white, blotched green and a little orange; flesh creamy-colored, good.

127527. No. 3875. Fruit elongate, tapered, 8 by 5 inches, smooth, yellow with broken and split ribs of green or orange; flesh $1\frac{3}{4}$ inches thick, creamy white, good.

127528. No. 3876. Fruit flattened, 5 by 4 inches, heavily netted, ribs $\frac{1}{2}$ inch wide, light lead, the rest pale green dotted and spotted with darker green; flesh $1\frac{1}{2}$ inches thick.

127529. No. 3877. Fruit ovoid, 6 inches in diameter, pale green, heavily dotted and with split ribs of dark green, no netting; flesh 2 inches thick, green, good.

127530. No. 3878. Fruit tapered, 8 by 5 inches, yellow, heavily dotted with green and splashed green or orange, smooth; flesh 2 inches thick, white, good.

127531. No. 3879. Fruit globose, 6 inches in diameter, pale green, clouded with darker green, smooth; flesh $1\frac{3}{4}$ inches thick, white, unripe.

127532. No. 3880. Fruit globose, 6 inches in diameter, coarse netting, green rib lines, body pale green, dotted with darker green; flesh $1\frac{1}{2}$ inches thick, creamy green, not good.

127533. No. 3881. Fruit ovoid, 8 inches in diameter, orange fretted with paler orange, smooth rib lines broad, lead green; flesh $1\frac{3}{4}$ inches thick, creamy green, good.

127534. No. 3882. Fruit 6 by 4 inches, smooth, pale yellow, dotted with grass green; flesh $1\frac{1}{4}$ inches thick, immature.

127535. No. 3883. Fruit obovoid, 6 inches in diameter, pale green with pea-green islands, faintly indented ribs, feather edged with very dark green, little netting; flesh 2 inches thick, creamy green, good.

127536. No. 3884. Fruit 8 by 6 inches, smooth, pale yellow with green rib lines; flesh creamy green, $1\frac{3}{4}$ inches thick, good.

127519 to 127621—Continued

127537. No. 3885. Fruit greenish white, clouded with darker green, smooth, 10 by 8 inches; flesh creamy green, good.

127538. No. 3886. Fruit ovoid, 8 inches in diameter, smooth yellow dotted and splashed with green; flesh 2 inches thick, creamy white, very good.

127539. No. 3887. Fruit tapered, 8 by 5 inches, smooth, yellow with broken and split ribs of orange and green; flesh $1\frac{1}{4}$ inches thick, bright green, fair.

127540. No. 3890. Fruit globose, 6 inches in diameter, smooth, pale green, dotted with darker green and splashed with orange; flesh 2 inches thick, white, good.

127541. No. 3891. Fruit 10 by 7 inches, smooth, green, heavily dotted with very dark green, faintly indented ribs of green; flesh 2 inches thick, creamy green, pear flavor, fine.

127542. No. 3892. From Doao, September 24, 1937, at 5,000 feet altitude. Fruit globose, 6 inches in diameter, smooth whitish green splashed with grass green; flesh $1\frac{1}{2}$ inches thick, salmon, sweet.

Nos. 127543 to 127546. From Kabul, September 24 to October 4, 1937, at 7,000 feet altitude.

127543. No. 3894. Fruit 10 by 6, dark green, netted, with nearly smooth, broad, pale-green stripes; flesh 2 inches thick, green, crisp, sweet.

127544. No. 3897. Fruit 13 by 7 inches, yellow, heavily netted; flesh $2\frac{1}{4}$ inches thick, white, sweet; a good keeper.

127545. No. 3899. Probably elongate, pale yellow, netted.

127546. No. 3905. [No description.]

Nos. 127547 to 127550. From Ghazni October 7, at 8,000 feet altitude.

127547. No. 3827. A mixed sample.

127548. No. 3928. Fruit 10 by 6 inches, pale yellow, dotted with darker yellow and with broken split stripes of very dark green; flesh 2 inches thick, salmon, good.

127549. No. 3930. Fruit 12 by 8 inches, furrowed, yellow, more or less very dark green, no netting; flesh 2 inches thick, white, flavor like the Honey Dew melon; a good keeper.

127550. No. 3931. Fruit 12 by 8 inches, smooth, yellow, blotched more or less with grass green; flesh 2 inches thick, white, flat.

Nos. 127551 and 127552. From Khalat, October 14, at 8,000 feet altitude. Mixed samples of end of the season runs, representing about 10 varieties.

127551. No. 3996.

127552. No. 3998.

Nos. 127553 to 127558. From Kandahar, October 16 to 26, at 5,000 feet altitude.

127553. No. 4013. Fruit 7 by 5 inches, yellow, netted; flesh $1\frac{3}{4}$ inches thick, salmon, crisp, sweet; winter keeper.

127554. No. 4014. Fruit 10 by 7 inches, tapering to blossom end, irregular, yellow with indented ribs; flesh white to green near the rind, crisp sweet, 2 inches thick; a good keeper.

127555. No. 4015. Fruit 10 by 6 inches, yellow, netted; flesh $1\frac{7}{8}$ inches thick, creamy white, crisp, sweet; a good keeper.

127556. No. 4016. Fruit 10 by 7 inches, tapered to blossom end, yellow, heavily dotted and streaked with very dark green, netted; flesh green, sweet, crisp, 2 inches thick; a good keeper.

127557. No. 4017. Fruit globose, 5 inches in diameter, dark green, netted; flesh 2 inches thick, green, crisp, insipid; a good keeper.

127558. No. 4062. Fruit 9 by 6 inches, yellow and very dark green, the green in broad irregular bands, no netting; flesh $1\frac{3}{4}$ inches thick, cream, insipid.

127519 to 127621—Continued

127559. No. 4122. From Mil-i-Kirki, November 1. A mixed sample. Melons grown in high temperatures.

127560. No. 4136. From Farah, October 31. Sample without notes. Fruit not seen.

Nos. 127561 to 127564. From Herat, November 12 and 13, at 3,000 feet altitude.

127561. No. 4164. Fruit 10 by 6 inches, pointed at both ends, green, dotted more or less with yellow, traces of broken netting; flesh $1\frac{3}{4}$ inches thick, bright salmon, of good quality.

127562. No. 4172. Fruit 10 by 6 inches, orange yellow, obscurely netted; flesh $1\frac{1}{2}$ inches thick, white, firm, of good quality; keeps well.

127563. No. 4175. Fruit 15 by 6 inches, tapered, mottled green with broad ribs of darker green; flesh $1\frac{1}{2}$ inches thick, greenish white.

127564. No. 4187. *Kharbuza*. A mixed sample. The dried flesh has a honey flavor.

Nos. 127565 and 127566. From Karokh, November 13, at 3,500 feet altitude.

127565. No. 4197. *Kharbuza*. A mixed sample.

127566. No. 4199. *Kharbuza*. Fruit not seen.

Nos. 127567 and 127568. From Maimana, November 16, at 3,000 feet altitude.

127567. No. 4214. Fruit elongate, 10 by 7 inches, yellow with more or less broken stripes of green; flesh $1\frac{3}{4}$ inches thick, creamy white, good.

127568. No. 4216. Fruit 10 by 7 inches, yellow green with broad broken stripes of very dark green; surface rough; flesh 2 inches thick, creamy, good.

Nos. 127569 to 127572. From Almar, November 15.

127569. No. 4217. Fruit 16 by 8 inches, green slightly marked with orange, heavy coarse netting; flesh 2 inches thick, green, good.

127570. No. 4218. Fruit 10 by 6 inches, yellow, more or less clouded with green, no netting; flesh 2 inches thick, white, good.

127571. No. 4219. Fruit globose, 10 inches in diameter, orange, netting obsolescent; flesh 2 inches thick, white, good.

127572. No. 4220. Fruit 10 by 6 inches, smooth, yellow; flesh 2 inches thick, creamy white, good.

Nos. 127573 to 127575. From Maimana, November 18 and 19, at 2,000 feet altitude.

127573. No. 4235. Fruit 10 by 8 inches, yellow clouded with green, coarsely netted; flesh 2 inches thick, creamy white, good.

127574. No. 4238. Fruit 10 by 6 inches, golden yellow, heavily furrowed; flesh $1\frac{3}{4}$ inches thick, whitish, very good.

127575. No. 4239. Fruit 10 by 7 inches, yellow, heavily sprinkled with green, and raised warts of green, surface rough; flesh $1\frac{3}{4}$ inches thick, greenish white, good.

Nos. 127576 to 127578. From Andkhin, November 21 to 25, at 1,500 feet altitude.

127576. No. 4256. Fruit 14 by 8 inches, orange with broad broken stripes of green; netting heavy; flesh 2 inches thick, whitish; not one of the best keepers.

127577. No. 4266. Fruit oval, 16 by 8 inches, yellow, deeply furrowed, finely and closely sprinkled with green; flesh 3 inches thick, white, delicious. Though harvested 6 or 8 weeks ago, this melon is still fresh. One of the best in quality and the best keeper so far seen.

127578. No. 4273. *Istanbul*. Fruits kept for their fragrance; carried in the hand.

127519 to 127621—Continued

127579 to 127584. *CUCUMIS SATIVUS* L.

Cucumber.

127579. No. 4384. From Londa, Bombay Presidency, January 1, 1938, at 5,000 feet altitude. An "everlasting" wild cucumber, annual. Of possible interest to breeders.

127580. No. 3948. *Badrang*. From Ghazni, October 8, at 8,000 feet altitude. Fruit 10 by 4 inches, russet brown when ripe.

127581. No. 4004. *Badrang*. From Khalat, October 14, at 8,000 feet altitude. Fruit not seen.

127582. No. 4097. From Ghazni, October 8. Fruit 6 by 3½ inches, russet and coarsely netted when ripe; a common Afghan type.

127583. No. 4167. *Badrang*. From Herat, November 12, at 3,000 feet altitude. Fruit not seen.

127584. No. 4262. *Badrang*. From Andkhin, November 22, at 1,500 feet altitude. Fruit 10 by 4½ inches, deep russet.

127585 to 127590. *CUCURBITA MAXIMA* Duchesne.

Squash.

127585. No. 4037. From Sardeh, October 18, at 5,000 feet altitude. Fruit flattened, 14 by 9 inches, orange red, spotted with paler red, ribs widely spaced and deep with irregular narrow lines of green; flesh 2¼ inches thick, orange.

127586. No. 3947. From Ghazni, October 8, at 8,000 feet altitude. Fruit flattened, 12 by 8 inches, coral red, more or less splashed with green, rib lines often bordered with greenish white; flesh 1¾ inches thick, pale yellow.

127587. No. 3955. From Mukkur, October 10, at 8,500 feet altitude. Fruit 10 inches long, brown green with obsolescent dull-gray rib lines, ribs faintly indented, some splashing of coral red; flesh 2 inches thick, orange yellow.

Nos. 127588 and 127589. *Shir Kadu*. From Khalat, October 13, at 8,000 feet altitude.

127588. No. 4991. Fruit top-shaped, 12 inches high, brownish green with overlaid netting of darker green and clear broken streaks of dull gray green and splashes of orange red; flesh 2 inches thick, cream orange.

127589. No. 3992. Fruit subglobose, 12 inches in diameter, creamy white; flesh 1½ to 2 inches thick, creamy orange.

127590. No. 4319. From Kabul, November 12. Fruit 21 by 10 inches, orange red, faintly and broadly ribbed; flesh yellow, 2 inches thick, of good texture.

127591 to 127603. *CUCURBITA MOSCHATA* Duchesne.

Cushaw.

127591. No. 3990. *Pilau Khuri*. From Khalat, October 13, at 8,000 feet altitude. Fruit 18 inches in diameter, orange brown spotted with paler brown; flesh yellow and orange.

Nos. 127592 to 127594. From Kandahar, October 16, at 5,000 feet altitude.

127592. No. 4022. *Kadu*. Fruit 18 by 12 inches, yellow buff, spotted with yellow and deeply ribbed; flesh 1¾ inches thick, orange, texture good.

127593. No. 4023. *Kadu*. Fruit with a neck, buff brown, 1 foot long, ribbed; flesh orange, 1¼ inches thick, of good texture.

127594. No. 4024. *Kadu*. Fruit subglobose, 10 inches in diameter, buff brown spotted with paler brown, deeply ribbed; flesh 1½ inches thick, orange; a good keeper.

127595. No. 4038. From Sardeh, October 18, at 5,000 feet altitude. Fruit 12 by 4 inches with a hard cream-buff shell; flesh cream, 1 inch thick.

127596. No. 4061. From Kandahar October 26, at 5,000 feet altitude. Fruit flattened, 12 by 10 inches, pink buff, spotted and mottled with cream, ribs deeply indented, about 1½ inches apart; flesh ½ to 2 inches thick, orange yellow.

127519 to 127621—Continued

127597. No. 4165. *Pilau Kadu*. From Herat, November 12, at 3,000 feet altitude. Fruit with neck, 12 inches long, pink buff with more or less clouding of green, ribs indented; flesh orange, 1 inch thick, texture good.

Nos. 127598 to 127602. From Maimana, October 15 to 18, at 2,000 feet altitude.

127598. No. 4212. *Pilau Kadu*. Fruit with neck, 18 inches long, buff pink, blotched with paler pink; flesh orange.

127599. No. 4213. *Pilau Kadu*. Fruit triangular spheroid, 12 inches in diameter, orange buff, blotched with paler buff, ribs deep and irregular; flesh orange, 1½ inches thick.

127600. No. 4215. *Tambal Kadu*. Fruit subglobose, 12 inches in diameter, gray green, indented at stem end; ribs obscure; flesh 2 inches thick, bright orange.

127601. No. 4228. *Makai Kadu*. Fruit 16 by 14 inches, gray green, ribs broad and deep; flesh 2½ inches thick, bright orange.

127602. No. 4231. Fruit 15 by 14 inches, pale coral pink with some greenish blotchings; rib stripes of light green; flesh 2¼ inches thick, orange.

127603. No. 4029. From Kandahar, October 23, at 5,000 feet altitude. Fruit subglobose, 4 inches in diameter; shell hard, orange, slightly warty; flesh orange to green next the rind, not bitter and said to be edible, probably when young and tender.

127604 to 127621. CUCURBITA PEPO L.

Pumpkin.

127604. No. 3946. From Ghazni, October 8, at 8,000 feet altitude. Fruit 12 by 7 inches, cream; ribs obscurely indented; flesh 1½ to 3 inches thick, creamy white, texture good.

127605. No. 3954. From Mukkur, October 10, at 8,500 feet altitude. Fruit yellow with confused and overlapping netting of green; rib lines green, more or less clearly marked; flesh 1¼ inches thick, pale yellow.

Nos. 127606 and 127607. From Andkhin, October 23 and 24, at 1,500 feet altitude.

127606. No. 4263. Fruit 10 by 5 inches, orange mottled with paler orange and striped with yellow, shell hard; flesh orange, 1¼ inches thick.

127607. No. 4268. Fruit 12 by 6 inches; shell hard, ocher, mottled with yellow; flesh 1½ inches thick, orange.

127608. No. 3923. *Kadu*. From Ghazni, October 7, at 8,000 feet altitude. Fruit 12 by 10 inches, whitish and heavily hairlined with grass green; ribs broadly spaced and faintly indented, often broken; flesh pale orange yellow, 2½ inches thick, not sweet; texture good.

127609. No. 3960. From Chahjui, October 12, at 8,000 feet altitude. Fruit 12 by 8 inches, orange red, rib stripes narrow, greenish; flesh 1 inch thick, yellow.

127610. No. 3993. *Kabuli Kadu*. From Khalat, October 13, at 8,000 feet altitude. Fruit 20 by 11 inches, orange red with narrow and broken streaks of yellow; ribs obscurely indented, belly green; flesh yellow, 1½ inches thick on belly to 3 inches thick on back.

127611. No. 4058. From Kandahar, October 23, at 5,000 feet altitude. Fruit acorn-shaped, 1 foot across, splashed and rib lined with green, ribs obscure; flesh orange, 1¾ inches thick, texture good.

Nos. 127612 and 127613. From Girishk, October 27.

127612. No. 4075. Fruit 18 by 9 inches, orange with narrow, often incomplete stripes, rather regular and whitish; belly gray green; flesh 2 inches thick, yellow.

127519 to 127621—Continued

127613. No. 4089. Fruit globose, 8 inches in diameter, orange red, ribs cream, faintly indented, the whole fruit more or less blotched with gray green; flesh 1 inch thick, pale yellow.

Nos. 127614 and 127615. From Kang, November 4 and 5, at 1,700 feet altitude.

127614. No. 4152. Fruit 10 inches across, creamy white, ribs obscurely indented; flesh $2\frac{1}{2}$ inches thick, yellow, texture good.

127615. No. 4153. Fruit 18 by 7 inches, body green, washed with orange and blotched with whitish stripes; ribs obscure; flesh orange, $1\frac{1}{2}$ inches thick.

Nos. 127616 and 127617. From Maimana, November 18, at 2,000 feet altitude.

127616. No. 4229. Fruit 12 by 9 inches with indented stem, coral pink with gray green blotching; flesh $2\frac{1}{2}$ inches thick, bright orange.

127617. No. 4230. *Tamba Kadu*. Fruit flattened, 14 by 10 inches, brown green, flecked with paler green, ribbed and rib lined with lead green; flesh orange, $2\frac{1}{2}$ inches thick.

Nos. 127618 and 127619. From Kabul, December 12 and 13.

127618. Fruit flattened, 10 by 14 inches, cream tinged pink, ribs deep; flesh orange, 2 inches thick, texture good.

127619. No. 4321. Fruit pear-shaped, 10 inches high, orange, very warty; eaten while immature.

Nos. 127620 and 127621. From Herat, November 12 and 13, at 3,000 feet altitude.

127620. No. 4162. Fruit 10 by 5 inches, whitish green with a soft rind; flesh $1\frac{1}{4}$ inches thick, creamy white.

127621. No. 4184. Said to be white.

127622. BRACHIARIA DICTYONEURA (Fig. and De Not.) Stapf. Poaceae. Grass.

From Transvaal, Union of South Africa. Seeds presented by D. Meredith, African Explosives and Industries, Ltd., Johannesburg. Received February 28, 1938.

A tufted perennial with ascending stems $1\frac{1}{2}$ to 3 feet high. Native to tropical Africa. The grass grows well on very poor soils, forming a dense, fairly palatable sward, and has the advantage that it can be readily established from seed.

127623 to 127632.

From Scotland. Seeds presented by Sir William Wright Smith, Regius Keeper, Royal Botanic Garden, Edinburgh. Received February 26, 1938.

127623. *COLCHICUM* sp. Melanthiaceae.

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

127624. *IMPATIENS ROYLEI* Walp. Impatiaceae.

Snapweed.

An erect annual 4 or 5 feet high, with ovate to ovate-lanceolate leaves and dark-purple, short-spurred flowers on long stalks. Native to the temperate slopes of the western Himalayas from Nepal to Marri, India, between 6,000 and 8,000 feet altitude.

For previous introduction see 28221.

127625. *LILIUM LANKONGENSE* Franch. Liliaceae.

A Martagon lily with rigid stem up to 4 feet high, many scattered oblong to oblong-lanceolate leaves crowded on the basal half of the stem, and fragrant white flowers flushed with rose purple, solitary, paired, or in racemes of 2 to 12. Native to alpine and subalpine regions of western China.

127623 to 127632—Continued**127626. NOMOCHARIS NANA (Klotzsch) Wilson. Liliaceae.**

A Himalayan lily about 6 inches high, with grasslike leaves 3 inches long and a small white nodding flower over an inch across.

For previous introduction see 99959.

127627 to 127632. RHODODENDRON spp. Ericaceae.**127627. 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 117069.

127628. RHODODENDRON PRUNIFOLIUM (Small) Millais.**127629. RHODODENDRON SMIRNOWII Trautv.****Smirnow rhododendron.**

A shrub or small tree about 20 feet high, with dark-green leaves, gray hairy beneath, and compact heads of rose-red flowers each about 3 inches across. Native to the Caucasus region.

For previous introduction see 114518.

127630. RHODODENDRON TSCHONOSKII Maxim.

A forest shrub native to Japan, with flaky bark, elliptic leaves $\frac{1}{3}$ inch long, and heads of one to four small white flowers.

For previous introduction see 117075.

127631 and 127632. RHODODENDRON YUNNANENSE Franch.**Yunnan rhododendron.**

A low shrub, 6 feet or less high, with narrowly elliptic somewhat hairy leaves and few-flowered clusters of broadly funnel-shaped flowers, white with the upper lobes spotted blood red. Native to Yunnan, China.

For previous introduction see 98481.

127633 to 127652. LUPINUS spp. Fabaceae.**Lupine.**

From Germany. Seeds presented by Dr. W. Rudolf, Direktor, Kaiser-Wilhelm Institut für Züchtungsforschung, Müncheberg/Mark. Received February 28, 1938.

127633 to 127637. LUPINUS ALBUS L.**White lupine.**

From Seelow. An annual lupine which prefers a dry climate and does not thrive on a damp or too calcareous soil.

For previous introduction see 126576.

127633. No. 4642.

127536. No. 4677.

127634. No. 4673.

127637. No. 4679.

127635. No. 4674.

127638 to 127642. LUPINUS ANGUSTIFOLIUS L.

For previous introduction see 89840.

127638. No. 8394. From Rublitz, Pommern.

127639. No. 8396. From Stuhm, West Prussia.

127640. No. 8402. From Neu Karpkuth, Kr. Ortelsburg, East Prussia.

127641. No. 8407. From the vicinity of Soldin, Mark.

127642. No. 8409. From Reiffeisen, Mecklenburg.

127643 to 127648. LUPINUS LUTEUS L.**European yellow lupine.**

A yellow-flowered lupine, native to Europe.

For previous introduction see 99822.

127633 to 127652—Continued

127643. No. 8369. From the vicinity of Militsch.

127644. No. 8370. From Klein Stoffin, Kr. Stolp.

127645. No. 8373. From the vicinity of Angerburg, East Prussia.

127646. No. 8379. From Beeskow, Mark.

127647. No. 8387. From Wittenberg, Sachsen.

127648. From Sarona, near Jaffa, Palestine.

127649. LUPINUS PILOSUS Murray.

From Deir el Belleh, Palestine. A hairy annual 2 to 4 feet high, with compound leaves of 9 to 11 oblong-lanceolate leaflets and a raceme of rose-colored flowers arranged in whorls. It is native to southern Europe.

For previous introduction see 89546.

127650 to 127652. LUPINUS PILOSUS × PALAESTINUS.

127650. 378/37. From Kur, Palestine.

127651. 379/37. From Ramin, Palestine.

127652. 380/37. From the vicinity of Salame, Palestine.

127653 to 127678. RHODODENDRON. Ericaceae.

From Japan. Plants purchased from the Chugai Nursery Co., Yamamoto, near Kobe. Received March 8, 1938.

Reported to be hybrids of *Rhododendron simisii* and *R. indicum*.127653. *Adzuma-no-hana*.127666. *Gunsei*.127654. *Bunkwa*.127667. *Gyokurin*.127655. *Chichibu*.127668. *Gyokushin*.127656. *Chojuraku*.127669. *Gyokuyo*.127657. *Eikwan*.127670. *Hatsu Gasumi*.127658. *Eiten*.127671. *Heiwa-no Hikari*.127659. *Fuji-no-koshi*.127672. *How-Raku*.127660. *Fukuju*.127673. *How-Zan*.127661. *Fuku-musume*.127674. *Jindai*.127662. *Fukurokuju*.127675. *Joh-Ga*.127663. *Gosho Zakura*.127676. *Kagetsu*.127664. *Gunbi*.127677. *Kai-Getsu*.127665. *Gunrei*.127678. *Keisetsu*.

127679 to 127684.

From Austria. Seeds presented by Dr. W. Ripper, Hadersdorf-Weidlingau. Received March 8, 1938.

127679. *BROMUS INERMIS* Leyss. Poaceae.

Smooth brome grass.

127680 to 127682. *FESTUCA* spp. Poaceae.

Fescue.

127680. *FESTUCA ELATIOR* ARUNDINACEA (Schreb.) Wimm.

For previous introduction see 111971.

127681. *FESTUCA ELATIOR* L.

Meadow fescue.

127682. *FESTUCA RUBRA* L.

Red fescue.

127683. *MALVA VERTICILLATA* L. Malvaceae.127684. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

127685. ASPARAGUS ACUTIFOLIUS L. Convallariaceae.

From Yugoslavia. Seeds presented by Dr. Z. Arnold, Botanical Garden, Zagreb.
Received March 11, 1938.

A dark-green shrubby dioecious asparagus, with zigzag branches, becoming about 5 feet high, with a habit resembling that of a juniper. The small yellow flowers are followed by waxy olive-green berries. It is native to the Mediterranean region.

For previous introduction see 99387.

127686 to 127716.

From South Dakota. Scions presented by N. E. Hansen, Experiment Station, Brookings. Received March 9, 1938.

127686 to 127713. MALUS spp. Malaceae.**Apple.****127687. MALUS SYLVESTRIS × IOENSIS.**

Bismar Crab.

127686. MALUS IOENSIS × BACCATA.

Amsib Crab.

127688. MALUS SYLVESTRIS × (BACCATA × SYLVESTRIS).

Bison Crab. (Jonathan × Sylvia.)

127689. MALUS.

Caputa Crab. (Ivan Crab × Kentucky Mammoth.)

127690. MALUS SYLVESTRIS Mill.

Caramel Crab.

127691. MALUS.

Chance.

127692. MALUS SYLVESTRIS × IOENSIS.

Chinook.

127693. MALUS sp.

Elk River Crab. A wild crabapple.

127694. MALUS sp.

Giant. A wild crabapple.

127695. MALUS SYLVESTRIS Mill.

Goldo.

127696. MALUS SYLVESTRIS × IOENSIS.

Izo. (Fluke No. 10 × Yellow Transparent.)

127697. MALUS IOENSIS × SYLVESTRIS.

Kola. (A wild crab from Elk River, Minn., × Oldenburg.)

127698. MALUS SYLVESTRIS × BACCATA.

Lina.

127699. MALUS.

*Maga. Possibly a *Malus sylvestris* hybrid.*

127700. MALUS.

Mercer. A wild crabapple.

127701. MALUS IOENSIS × SYLVESTRIS.

Nevis Wild Crab.

127686 to 127716—Continued

127702. *MALUS SYLVESTRIS* × *BACCATA* var. *MANDSHURICA*.

Olga Crab. (*Oldenburg* × *Siberian Crab.*)

127703. *MALUS SYLVESTRIS* Mill.

Oæbo.

127704. *MALUS SYLVESTRIS* Mill.

Sereda.

127705. *MALUS IOENSIS* × *SYLVESTRIS*.

Shoko. (Wild crab from Elk River, Minn., × *Alexander.*)

127706. *MALUS SYLVESTRIS* Mill.

Tolmo. (*Tolman* × *Oldenburg.*)

127707. *MALUS IOENSIS* × *SYLVESTRIS*.

Tipi. (Wild crab from Elk River, Minn., × *Oldenburg.*)

127708. *MALUS SIEBOLDII* (Regel) Rehder.

Toringo crab.

For previous introduction see 55744.

127709. *MALUS*.

Volga. Possibly a *Malus sylvestris* hybrid.

127710. *MALUS*.

Waubay Crab. A *Malus sylvestris* hybrid.

127711. *MALUS IOENSIS* × *SYLVESTRIS*.

Waublee Crab.

127712. *MALUS IOENSIS* × *SYLVESTRIS*.

Zapta. (A wild crab from Elk River, Minn., × *Bismarck.*)

127713. *MALUS IOENSIS* × *SYLVESTRIS*.

Zaza. A crab with red wood.

127714 to 127716. *PYRUS*.

127714. *Finland.*

127716. *Sladky.*

127715. *Krylov.*

127717 to 127724. *ZEA MAYS* L. Poaceae.

Corn.

From Peru. Seeds presented by Dr. Cesar Vargas, University of Cuzco, Cuzco. Received March 9, 1938.

A collection of corn from the Urubamba Valley.

127717. *Amarillo.* From Tucay.

Nos. 127718 to 127721. From Urquillos.

127718. *Amarillo.*

127720. *Huacca-Mullu.*

127719. *Culli.*

127721. *Paraccay.*

Nos. 127722 and 127723 came from Tucay.

127722. *Paraccay.*

127723. *Saccsa.*

127724. *Saccsa.* From Urquillos.

127725 to 127761.

From Afghanistan. Seeds and bulbs collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received February 17, 1938.

Unless otherwise mentioned, this material was all collected as seeds in the autumn of 1937.

127725 to 127761—Continued

127725. *ACHILLEA* sp. Asteraceae.

No. 4011. *Zawal*. From Khalat-i-Gluljai, October 15, at 8,000 feet altitude. A desert plant found growing in clumps 6 inches high, with yellow flowers. The seeds and flowers are used locally as a stomach medicine.

127726. *ARTEMISIA* sp. Asteraceae.

No. 4178. From Herat, November 12, at 3,000 feet altitude. A bush 18 inches high, growing abundantly on the desert over a wide range of altitude. An important winter pasture plant.

127727. *ASTER ALTAICUS* Willd. Asteraceae.

No. 4098. From Girishk, October 28. An attractive perennial with slender green stems 2 to 3 feet high and solitary or subcorymbose heads of lavender flowers about an inch across. Native to eastern Asia.

127728. *BERBERIS* sp. Berberidaceae.

Barberry.

No. 4206. From Zermast Pass, November 14, at 7,000 feet altitude. Well-formed bushes 8 feet high, found along a stream; attractive red fruits and holly-like leaves.

127729. *CLEMATIS* sp. Ranunculaceae.

No. 4005. From Khalat, October 14, at 8,000 feet altitude. A woody climber, up to 10 feet, found in thickets along a watercourse. Flowers probably small, but the fruit is attractive.

127730. *CRATAEGUS* sp. Malaceae.

No. 3855. From Balkh, October 20, at 1,200 feet altitude. An ornamental tree up to 12 feet high with crimson fruits $\frac{3}{8}$ inch in diameter.

127731. *CRATAEGUS* sp. Malaceae.

No. 4046. From Sardeh, October 18, at 5,000 feet altitude. A small well-formed tree about 15 feet high, with edible maroon fruits $\frac{3}{8}$ inch in diameter.

127732. *CYNODON DACTYLON* (L.) Pers. Poaceae.

Bermuda grass.

No. 4161. From Farah, November 7, at about 1,700 feet altitude. Crabgrass, often used here for lawns where nothing else will grow.

127733. *EREMURUS* sp. Liliaceae

No. 4198. *Seech*. From Zermast Pass, November 14, at 7,000 feet altitude. Plants 3 feet high, growing on a dry slope.

127734. *FRAXINUS* sp. Oleaceae.

Ash.

No. 4043. From Sardeh, October 15, at 5,000 feet altitude. A quick-growing tree with compound leaves having 3 to 5 dark-green pinnate leaflets and abundant fruits which persist until winter. The tree will tolerate alkaline soil and subzero weather.

127735. *FRAXINUS* sp. Oleaceae.

Ash.

No. 4327. From Kabul, November 14, at 7,000 feet altitude. A quick-growing tree that is used here for shade. As it retains its fruits, it is probably attractive to birds.

127736. *HYACINTHUS* sp. Liliaceae.

No. 4007. From Khalat, October 14, at 8,000 feet altitude.

127737. *IRIS* sp. Iridaceae.

No. 3907. From Kabul, October 5, at 7,000 feet altitude. Found in cultivated clumps with blossom stalks 4 feet high; flowers usually 5 on a stalk, probably rose and blue. Most flowers do not produce seed.

127738. *MALVA SYLVESTRIS MAURITIANA* (L.) Boiss. Malvaceae.

No. 4267. From Andkhin, November 24, 1937. A cultivated plant 2 feet high; flowers rose purple, about 1 inch across.

127725 to 127761—Continued

127739. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

No. 4223. *Rishka*. From Maimana, November 17, at 2,000 feet altitude.127740. *MENTHA* sp. Menthaceae.No. 4012. *Shenshob*. From Khalat, October 5, at 8,000 feet altitude. Leaves used as greens, as medicine, and for flavoring sour milk.127741. *PISTACIA CABULICA* Stocks. Anacardiaceae.

No. 4060. From Kandahar, October 23, at 5,000 feet altitude. A tree about 1 foot in diameter and 20 feet high, bushy and covered with racemes of small pink fruits.

For previous introduction see 125588.

127742. *POA BULBOSA* L. Poaceae.

No. 4203. From Bala Murghab, November 15, at 3,000 feet altitude. An important pasture grass, growing on gumbo hills over a wide range of altitude.

127743 to 127755. *ROSA* spp. Rosaceae.

Rose.

127743. *Rosa* sp.

No. 3839. From Balkh, September 20, at 1,200 feet altitude. A free-flowering bush 6 feet high, from the border of a field, with orange-red fruits and leaves without scent.

127744. *Rosa* sp.

No. 3901. From Bagrami, near Kabul, October 3, at 7,000 feet altitude. A nearly thornless floriferous bush 5 feet high, growing on the open plain.

Nos. 127745 to 127748. From Kabul, October 5, at 7,000 feet altitude.

127745. *Rosa* sp.

No. 3902. A thorny bush 6 feet high, spreading from the root.

127746. *Rosa* sp.

No. 3906. A bush 6 feet high with white fragrant flowers, 1½ inches across, in clusters.

127747. *Rosa* sp.

No. 3908. A bush 8 feet high, with yellow to bronze flowers. The stems are sometimes fasciated.

127748. *Rosa* sp.

No. 3909. A cultivated rose of subarborescent habit, with drooping branches like a weeping willow; the numerous flowers are about 2 inches across. Seen only in Kabul.

127749. *Rosa* sp.

No. 3941. From Ghazni, October 8, at 8,000 feet altitude. A bush 4 feet high, spreading from the roots; the white fragrant flowers, 1½ inches in diameter, are in clusters.

127750. *Rosa* sp.

No. 3949. From Ghazni, October 8, at 8,000 feet altitude. A bush 8 feet high, with scented leaves, growing at the edge of a field. The fragrant white flowers 1½ inches across are in clusters.

127751. *Rosa* sp.

No. 4039. From Sardeh, October 18, at 5,000 feet altitude. A cultivated bush 6 feet tall.

127752. *Rosa* sp.

No. 4205. From Zermast Pass, November 14, at 7,000 feet altitude. A well-formed bush, 8 feet high, growing along a stream.

127753. *Rosa* sp.

No. 4243. From Maimana, November 19, at 2,000 feet altitude. A subscandent bush 5 feet high, growing in a hedgerow.

127725 to 127761—Continued

127754. *Rosa* sp.

No. 4286. From Balkh, December 3. A mixed sample from bushes about 6 feet high, found growing in a thicket.

127755. *Rosa* sp.

No. 4326. A very floriferous bush 6 feet high, of rather open growth.

127756. *SACCHARUM ARUNDINACEUM* Retz. Poaceae.

No. 4293. From Balkh, December 3, at 1,200 feet altitude. A tall grass, related to sugarcane, growing in clumps 8 to 12 feet high, with attractive purple-red plumes.

127757. *TAMARIX* sp. Tamaricaceae.

No. 4179. From Kang, November 6, at 1,700 feet altitude. A common bush or small tree on the desert where water collects in summer. Useful as a wind-break, withstanding hot winds.

127758. *TRIFOLIUM* sp. Fabaceae.

No. 4137. *Shafbal*. From Kang, November 3, at 1,700 feet altitude. A forage crop.

127759. *TULIPA* sp. Liliaceae.

No. 4008. From Khalat, October 14, at 8,000 feet altitude. Bulblets from a field.

127760. *TULIPA* sp. Liliaceae.

No. 4288. From Balkh, November 3. Bulblets taken from a pheasant's crop.

127761. *VITEX NEGUNDO* L. Verbenaceae.

No. 4059. From Kandahar, October 23, at 5,000 feet altitude. Plants 3 to 4 feet high growing in clumps; found in a river bed.

For previous introduction see 109602.

127762 to 127770. *ZEA MAYS* L. Poaceae.

Corn.

From Peru. Seeds presented by Dr. S. P. Vallejo, Agronomist in Chief, Estación Agrícola de Ancash, Huaraz. Received March 10, 1938.

127762 to 127764. From Callejón de Huaylas, Department of Ancash.

127762. *Maíz Negro*, black corn.

127763. *Maíz Blanco Común*, common white corn.

127764. *Maíz Terciopelo*, velvet corn.

127765. *Maíz Alazán*, sorrel corn. From the Department of Lambayeque.

127766. *Maíz Blanco del Cuzco*, white corn from Cuzco.

127767. *Maíz Hhira*, yellow corn from Cuzco.

127768 to 127770. From Callejón de Huaylas, Department of Ancash.

127768. *Maíz Amarillo*, yellow corn.

127769. *Maíz Huarutambo*.

127770. *Maíz Blanco del Cuzco*, white corn.

127771 to 127782.

From Norway. Seeds presented by the Botanic Garden, Oslo. Received March 7, 1938.

127771 to 127779. *ALLIUM* spp. Liliaceae.

127771. *ALLIUM FISTULOSUM* L.

Welsh onion.

127772. *ALLIUM NUTANS* L.

A Siberian species with narrow leaves, all radical, and two nodding heads of rosy white flowers.

For previous introduction see 110774.

127771 to 127782—Continued

127773. *ALLIUM GALANTHUM* Kar. and Kir.

An allium with hollow, somewhat inflated stems up to 16 inches high, few cylindrical leaves, and an umbel of whitish flowers. Native to the Tian Shan region, Asia, and allied to *Allium cepa*.

127774 and 127775. *ALLIUM NUTANS* L.

For previous introduction and description see 127772.

127776. *ALLIUM ANGULOSUM* L.

An onion originally from Tonkin, French Indo-China, the leaves of which are used like chives.

For previous introduction see 110765.

127777. *ALLIUM ODORUM* L.127778. *ALLIUM STRICTUM* Schrad.

An allium native to Siberia, with several linear leaves on a stem over a foot high and an umbel of rose-colored flowers.

For previous introduction see 110783.

127779. *ALLIUM VICTORIALIS* L.

Onion.

One of the most distinctive of the European alliums, with stems about 2 feet high, leaves resembling those of the lily-of-the-valley, and white to greenish-white flowers.

For previous introduction see 122058.

127780 to 127782. *IMPATIENS* spp. *Impatiens*aceae.127780. *IMPATIENS BALSAMINA* L.

Garden balsam.

127781. *IMPATIENS ROYLEI* Walp.

Snapweed.

An erect annual 4 or 5 feet high, with ovate to ovate-anceolate leaves and dark-purple, short-spurred flowers on long stalks. Native to the temperate slopes of the western Himalayas from Nepal to Marri, India, between 6,000 and 8,000 feet altitude.

For previous introduction see 127624.

127782. *IMPATIENS SCABRIDA* DC.

Snapweed.

An annual up to 5 feet high, with ovate to lanceolate leaves; flowers golden yellow with red spots, on long stems near the end of the branches. Native to the temperate Himalayas of northern India from 6,000 to 10,000 feet altitude.

For previous introduction see 28222.

127783 to 127850.

From Peru and Bolivia. Seeds collected by H. L. Blood, Agricultural Experiment Station, Logan, Utah, in cooperation with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received February 24, 1938.

Unless otherwise mentioned, this material was all collected in Peru.

127783. *ALONSOA ACUTIFOLIA* Ruiz and Pav. *Scrophulariaceae*.

No. 174. January 1938, from hills above Pisac at 12,000 feet altitude. A stout bushy plant about 2 feet high, with broadly lanceolate, sharp-tooth leaves and showy cinnabarred flowers. Native to Peru; grown as an annual outside the Tropics.

For previous introduction see 99787.

127784. *CAPSICUM PUBESCENS* R. and P. *Solanaceae*.

No. 176. *Crato*. From the market at Pisac, January 9, 1938. A pepper that resembles a red tomato in shape and appearance, about 3 inches in diameter.

127783 to 127850—Continued

127785. *CUCURBITA MAXIMA* Duchesne. Cucurbitaceae. **Squash.**

No. 166. *Zapallo*. From the market at Arequipa, January 4, 1938, but probably grown at Tasma. Fruit variable in color, bluish gray or greenish gray with orange markings.

127786. *CYPELLA HERBERTII* Herbert. Iridaceae.

No. 225. From Cuzco, presented by Dr. C. Vargas, January 16, 1938. A plant with a bulbous base and linear leaves about 1 foot long. The erect, branched stalk, 2 to 3 feet high, bears 5 or 6 flowers, each about 3 inches across; the petals are orange red with green markings at base. Native to southern Brazil, Uruguay, and northern Argentina.

For previous introduction see 119818.

127787. *DALECHAMPIA ARISTOLOCHIAEFOLIA* H. B. K. Euphorbiaceae.

No. 203. Found growing along and over rock fences near Abancay, January 15, 1938. A slender woody climber with ovate leaves about 3 inches long and small flowers with showy violet bracts. Native to Ecuador.

127788. *DATURA SANGUINEA* Ruiz and Pav. Solanaceae. **Red floripondio.**

No. 192. From above Limatambo, January 14, 1938. A large treelike shrub 4 to 12 feet high, with pubescent, ovate-acuminate leaves and brilliant brick-red, pendulous flowers 8 inches long. Native to Peru.

For previous introduction and description see 126903.

127789. *DATURA STRAMONIUM* L. Solanaceae.

For previous introduction see 116246.

127790. *FRAGARIA CHILOENSIS* (L.) Duchesne. Rosaceae. **Chiloe strawberry.**

No. 186. *Frutilla*. From Macchu Picchu, along the Urubamba River, at about 4,000 feet altitude.

For previous introduction see 121799.

127791. *LAVATERA ASSURGENTIFLORA* Kellogg. Malvaceae.

California treemallow.

No. 113. From Huamachuco, December 19, 1937. A shrub 3 to 4 feet high, freely branched at the base, with round, deeply cleft leaves 3 inches across and axillary, purplish flowers 2 inches across. Native to southern California islands.

127792. *LANTANA* sp. Verbenaceae.

No. 195. Found among rocks just above and west of Curahausi at about 6,025 feet altitude. A low ornamental shrub of spreading habit with yellow flowers.

127793. *LOASA CUZCOENSIS* Killip. Loasaceae.

No. 224. From near Cuzco, January 16, 1938. A stout annual about 2 feet high, with ovate, subpinnately lobed leaves 2 to 6 inches long and white flowers about 1 inch across. Native to Peru.

127794 to 127833. *LYCOPERSICON* spp. Solanaceae. **Tomato.**

127794 to 127804. *LYCOPERSICON ESCULENTUM* Mill.

127794. No. 154. From the market at Huaraz, December 26, 1937, but grown at Caras. Fruit smooth, but flat and ribbed.

127795. No. 155. From the market at Yungay, December 26, 1937. Fruit extremely variable, many very rough.

127796. No. 155-A. From the market at Huarney, December 29, 1937. A mixed sample of various rough fruits.

Nos. 127797 and 127798. From the market at Huacho, December 30, 1937.

127797. No. 156. Fruit rough and flat.

127783 to 127850—Continued

127798. No. 157. Fruit flat, but smooth and slightly 2-celled.

Nos. 127799 to 127801. January 2, 1938. From the market at Mollendo, but grown at Tambo.

127799. No. 158. Fruit small, round, variable.

127800. No. 159. Fruit small, flat, 2- to 5-celled.

127801. No. 160. Fruit flat and very rough.

Nos. 127802 to 127804. From the market at Arequipa, January 5, 1938.

127802. No. 163. Fruit large, rough and pink, grown at Tacna.

127803. No. 164. Fruit small, flat. Grown at Camana.

127804. No. 165. Fruit rough and coarse. Grown in the south.

Nos. 127805 and 127806. From the Hacienda Maranura, south of Quillabamba, at about 3,660 feet altitude, January 11, 1938.

127805. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

No. 180.

For previous introduction and description see 126954.

127806. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

No. 181. Fruit red, less than $\frac{1}{2}$ inch in diameter.

127807. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

No. 182. From the Hacienda Chinche, near Quillabamba, at about 3,800 feet altitude, January 11, 1938.

For previous introduction and description see 126954.

127808 to 127824. *LYCOPERSICON ESCULENTUM* Mill.

127808. No. 190. From Thomas Payne's farm, Urco, January 12, 1938. Fruit rough; grown locally for 20 years.

127809. No. 196. Along the roadside above Curahause, January 14, 1938, at 6,075 feet altitude. A small plant growing under unfavorable conditions.

Nos. 127810 to 127813. From the market at Abancay, January 15, 1938.

127810. No. 198. Fruit small, pear-shaped.

127811. No. 199. Fruit small, round, red.

127812. No. 200. Fruit small round, bluish scarlet.

127813. No. 201. Fruit small, round, scarlet pink.

127814. No. 202. Growing among debris bordering a rock wall near Abancay, January 15, 1938. Fruit small, round, red.

Nos. 127815 to 127818. From the market at Cuzco, January 16, 1938.

127815. No. 219. Fruit small, round, 2-celled.

127816. No. 220. Fruit flat, red, 3- to 4-celled.

127817. No. 221. Fruit red, pear-shaped, from the Lares Valley.

127818. No. 222. Fruit red, size of large peas; from the Lares Valley.

Nos. 127819 to 127822. From the market at Chulumani, Bolivia, January 20, 1938.

127819. No. 232. Fruit rough, many-celled; grown in this district for many years.

127820. No. 233. Fruit red, small, round; grown in this district for many years.

127821. No. 234. Fruit small, round, scarlet.

127822. No. 235. Fruit small, round, yellow.

Nos. 127823 and 127824. From the market at La Paz, Bolivia, January 23, 1938.

127783 to 127850—Continued

127823. No. 243. Fruit small, rough, yellow, cultivated in Rio Bajo.

127824. No. 244. Fruit small, about 1 inch in diameter, red; cultivated in Rio Bajo.

127825. *LYCOPERSICON PERUVIANUM* var. *HUMIFUSUM* C. H. Mull.

No. 184. *Ocoilo-chuma*. Collected along a river near Piscacucho, January 12, 1938. A perennial vine with large woody stems, growing among shrubbery. Used medicinally by the natives.

127826 and 127827. *LYCOPERSICON HIRSUTUM* Humb. and Bonpl. From Cajamarca, December 21, 1937.

127826. No. 135. From fields along a canal bank at 12,000 feet altitude. Plant coarse, hirsute; fruit green or yellowish with dark-green stripes radiating from the stem end.

127827. No. 136. Found growing along the walls adjoining the Indian baths.

127828. *LYCOPERSICON PERUVIANUM* var. *HUMIFUSUM* C. H. Mull.

No. 141. Along the road between Cajamarca and San Juan at 8,500 feet altitude. Plant dark green; stems very dark; flowers large; foliage conspicuous; fruit green type, but resembles the red type in delicacy.

127829. *LYCOPERSICON PERUVIANUM* var. *HUMIFUSUM* C. H. Mull.

No. 142. Along the road between San Juan and Magdalena, December 23, 1937.

127830. *LYCOPERSICON PERUVIANUM* var. *DENTATUM* Dun.

No. 161. January 3, 1938. From a dry hillside above Mollendo, at about 1,000 feet altitude. Fruit yellowish green.

127831. *LYCOPERSICON PERUVIANUM* var. *DENTATUM* Dun.

No. 168. From near Sabandia, January 5, 1938, at 8,000 feet altitude. Fruit yellowish green streaked with violet, less than $\frac{1}{2}$ inch in diameter; calyx long.

127832. *LYCOPERSICON PERUVIANUM* var. *DENTATUM* Dun.

No. 169. From Sacabaya, in a creek bed west of Arequipa, at 8,000 feet altitude, January 5, 1938. Fruit yellowish, streaked with violet, less than $\frac{1}{2}$ inch in diameter, calyx long.

127833. *LYCOPERSICON PIMPINELLIFOLIUM* (Jusl.) Mill.

No. 179. From Quillabamba, January 11, 1938. Fruit small, red, oval, less than $\frac{1}{2}$ inch in diameter.

127834. *NICANDRA PHYSALODES* (L.) Gaertn. Solanaceae.

No. 218. From Limatambo, January 16, 1938. A blue-flowered Peruvian annual with the fruit enclosed in a husk, as in *Physalis*.

For previous introduction see 111187.

127835. *PHASEOLUS LUNATUS* L. Fabaceae.

Lima bean.

No. 167. *Pallases*. From the market at Arequipa, January 5, 1938.

127836. *PHYSALIS* sp. Solanaceae.

No. 185. From Macchu Picchu, at 4,500 feet altitude, January 12, 1938. Fruit very large, yellow.

127837. *PHYSALIS* sp. Solanaceae.

No. 140. *Tomate Cimarron*. Along the yucca fence line near the aviation field.

127838. *SALVIA OPPOSITIFLOEA* Ruiz and Pav. Menthaceae.

No. 223. From near Cuzco, January 16, 1938. Presented by Dr. C. Vargas. An erect shrubby perennial about 2 feet high, with ovate, obtuse, crenate leaves and terminal spikes of many scarlet flowers. Native to Peru.

127783 to 127850—Continued

127839. *SARACHA CONTORTA* Ruiz and Pav. Solanaceae.

No. 191. From fields above Limatambo, at 12,500 feet altitude, January 14, 1938. An annual with ovate leaves and small clusters of campanulate, pale-yellow flowers. Native to Peru.

127840 to 127849. *SOLANUM* spp. Solanaceae.

127840 and 127841. *SOLANUM TUBEROSUM* L.

Potato.

Paysas. From Yuscay, at 9,660 feet altitude, January 13, 1938.

127840. No. 188. Purple flowers.

127841. No. 189. White flowers.

127842. *SOLANUM* sp.

No. 139. *Yerba Morra*. South of Cajamarca, December 21, 1937. A plant with purple flowers; used medicinally.

127843. *SOLANUM* sp.

No. 144. *Yerba Santa*. From Huaraz, December 26, 1937 at 10,000 feet altitude. A large shrub with scented foliage; leaves entire, linear, 4 to 6 inches long; flowers purplish white.

127844. *SOLANUM* sp.

No. 170. From Sacabana, west of Arequipa, at 8,000 feet altitude, January 5, 1938. A shrubby plant with yellowish-green fruits.

127845. *SOLANUM* sp.

No. 173. From the hills above Pisac, about 12,000 feet altitude, January 9, 1938.

127846. *SOLANUM* sp.

No. 205. From Abancay, January 13, 1938. A shrub 6 to 8 feet high, with tomentose yellow berries.

127847. *SOLANUM* sp.

No. 211. Along the river bed below Limatambo, at 8,700 feet altitude. A shrub with green fruits.

127848. *SOLANUM* sp.

No. 236. From Chulumani, Bolivia, at 6,000 feet altitude, January 21, 1938. A small tree with few thorns; fruits dark blue to black.

127849. *SOLANUM* sp.

No. 242. From above La Paz, Bolivia, at 13,500 feet altitude, January 21, 1938. A bush covered with cherry-red fruits, less than ½ inch in diameter.

127850. *STENOLOBIUM AREQUIPENSE* Sprague. Bignoniaceae.

No. 207. From Abancay, at 9,700 feet altitude, January 15, 1938. An erect shrub to 6 feet high, with slender 4-angled branches and pinnate leaves 4 to 5 inches long. The funnel-shaped orange flowers are 2 to 3 inches long and are borne in terminal racemes 4 to 8 inches long. Native to Peru.

127851. *RUBUS* sp. Rosaceae.

From Germany. Plants purchased from Wilhelm Pfitzer, Stuttgart. Received March 14, 1938.

St. Walfried raspberry.

127852 to 127872.

From Maryland. Plants growing at the United States Horticultural Station, Beltsville. Numbered in February 1938.

127852. *ATALANTIA MISSIONIS* (Wight) Oliver. Rutaceae.

A small tree much resembling an orange tree in habit, with pale-gray bark and branches armed with short stiff spines, rather large stiff elliptic leaves with indistinct veining, and small white flowers. The very sweet fruit is like a small dark orange; and the pale yellow-white wood is close grained, smooth, and suitable for cabinet work.

For previous introduction see 98731.

127852 to 127872—Continued

127853. *FERONIELLA OBLATA* Swingle. Rutaceae.

Krassan.

A spiny tree up to 65 feet high, native to forests in Cambodia and Cochin-China. The leaflets of the pinnate leaves are oval with rounded or flattened tips, and the fragrant white flowers appear in panicles on the branches of the previous year's growth. The small fruits, less than 2 inches in diameter, are borne in clusters and have a pronounced orange flavor when young. The edible pinkish pulp is subacid and is used as a condiment in sauces.

For previous introduction see 109763.

127854. *MURRAYA KOENIGII* (L.) Spreng. (*Chalcas koenigii* (L.) Kurz.). Rutaceae.

A small tropical tree found chiefly in the dry region of the Jaffna Peninsula, northern Ceylon. The fruits ripen generally during April. The tree prefers light rich soil, and, with cultivation, will thrive at an altitude of 2,000 feet. The dried leaves are used in curries, soups, etc.

For previous introduction see 93880.

127855. *PISTACIA MEXICANA* H. B. K. Anacardiaceae.

Originally received from Mexico as seeds, July 1, 1912. A slender shrub or small tree with pinnate leaves composed of 11 to 29 oblique-oblong leaflets and small, nearly dry fruits with edible seeds. Native to Mexico and Guatemala.

For previous introduction see 109779.

127856 to 127865. *CITRUS* spp. Rutaceae.127856. *CITRUS*.*Cleopatra*.127857. *CITRUS BERGAMIA* Risso.

Bergamot.

127858. *CITRUS GRANDIS* (L.) Osbeck.

Grapefruit.

127859. *CITRUS*.*Temple Orange*.127860. *CITRUS*.*Suen Kat*.127861. *CITRUS GRANDIS* (L.) Osbeck.

Grapefruit.

Inman.127862. *CITRUS*.*Tim Shan*, or wild Indian lemon.127863. *CITRUS*.*Tim Shan*, or wild Indian lemon.127864. *CITRUS*.*Morton's Citrange*.127865. *CITRUS*.*Chao Chou T. T. No. 10*, orange.127866. *GLYCOSMIS PENTAPHYLLA* (Retz.) Correa. Rutaceae.

An unarmed shrub with evergreen leaves and panicles of small white fragrant flowers and white berries. Said to be very hardy in dry places. Native to China.

127867 to 127871. *PISTACIA* spp. Anacardiaceae.

Pistache.

127867. *PISTACIA ATLANTICA* Desf.

Mount Atlas pistache.

A tree, native to northern Africa, up to 50 feet high, with many woody branches which form a dense head. The blue, somewhat fleshy drupes are about the size of peas. A resinous gum flows from the bark of the trunk

127852 to 127872—Continued

and branches at various times of the year, especially in summer, and hardens to a pale yellow color. This gum has a pleasant aromatic odor and taste and thickens in plates covering the branches. The Arabs collect this substance in autumn and winter, and chew it to whiten the teeth and sweeten the breath.

For previous introduction see 95415.

127868. *PISTACIA INTEGERRIMA* Stewart.

A large tree up to 60 feet high, native to the warm slopes of the Himalayas in northern India. The aromatic, pinnate leaves are made up of 4 or 5 pairs of lanceolate leaflets with an oblique base. The small inconspicuous flowers are in racemose clusters and are followed by the bright-green drupes which are about $\frac{1}{4}$ inch across. This tree yields the famous zebrawood of India.

For previous introduction see 107621.

127869. *PISTACIA TEREBINTHUS* L.

False terebinth.

For previous introduction see 98174.

127870. *PISTACIA TEREBINTHUS* × *VERA*.127871. *PISTACIA*.127872. *PUNICA PROTOPUNICA* Balf. f. Punicaceae.

A small tree native to the island of Socotra, on the east coast of Africa, where it grows abundantly on the plateau sloping southward from the Hagier Peaks. In general habit it is not unlike the pomegranate, but its leaves are larger and coarser. The flowers are somewhat smaller, and the fruit is very much smaller.

For previous introduction see 26919.

127873 to 127875.

From Germany. Seeds presented by the Director, Botanic Gardens, Berlin-Dahlem. Received March 10, 1938.

127873. *ACANTHORHIZA ACULEATA* (Liebm.) Wendl. Phoenicaceae.

Rootspine palm.

A palm, native to Mexico, with a trunk 30 to 40 feet high, armed at the base with spines formed of the thickened aerial roots. The orbicular fan-shaped leaves are about 5 feet in diameter on stalks 4 feet long; the flowers are dark creamy pink.

For previous introduction see 120279.

127874. *IMPATIENS SCABRIDA* DC. Impatiéntaceae.

Snapweed.

For previous introduction and description see 127782.

127875. *VIOLA ATHOIS* W. Becker. Violaceae.

A violet with leafy stems 4 to 7 inches high, lower leaves orbicular, upper leaves oblong, and large violet flowers. Allied to *Viola gracilis* and native to northern Greece.

127876 to 127887. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.

From South Dakota. Scions presented by N. E. Hansen, State College Experiment Station, Brookings. Received March 15, 1938.

127876. *Anda*.

127882. *Ninguta*.

127877. *Chow*.

127883. *Sansin*.

127878. *Hulan*.

127884. *Sing*.

127879. *Lalin*.

127885. *Sino*.

127880. *Manchu*.

127886. *Tola*.

127881. *Mandarin*.

127887. *Zun*.

127888 to 127891.

From Washington, D. C. Plants growing in the United States Department of Agriculture greenhouses. Numbered March 15, 1938.

127888. INODES NEGLECTA (Beccari) O. F. Cook. Phoenicaceae. Palm.

C. A. 233. Grown from seeds collected on Mount Rouis, Haiti, November 6, 1931. A large palmetto, about 20 feet high, with a smooth trunk, large fanlike leaves, and large more or less drooping flower clusters.

For previous introduction see 88183.

127889. PAUROTIS WRIGHTII (Griseb.) Britton. Phoenicaceae. Palm.

No. C. A. 262. Plants from seeds collected by O. F. Cook at Fort Meyers, Fla., in 1928. A palm often with several erect trunks 25 to 40 feet high, native to southern Florida and the West Indies. The half-orbicular, fan-shaped leaves, which spread in all directions, are yellow green above and blue green beneath, and the segments are linear lanceolate. The drooping spadix, 3 to 5 feet long, bears yellow-green flowers followed by lustrous black fruits $\frac{1}{8}$ inch in diameter.

127890. SABAL sp. Phoenicaceae.

No. C. A. 257. This palm grows wild near Boerne, Tex., an elevated district northeast of San Antonio, and appears to be one of the hardiest of the palms. The leaves are borne on a short burrowing rootstock, no trunk being formed above the ground. It is one of the dwarf or scrub palmettos related to *Sabal Minor* of the Southeastern States, but with smaller leaves, shorter and more rigid leaf segments, and larger fruits.

127891. SEAFORTHIA sp. Phoenicaceae. Palm.

C. A. 215.

127892 to 127898. ZEA MAYS L. Poaceae. Corn.

From Bolivia. Seeds presented by Eduardo Romecin, La Paz. Received March 17, 1938.

From the Cochabamba Valley, at 2,250 meters altitude. These are dry-land varieties.

127892. Common white corn.

127893. Common yellow corn.

127894. *Chuspille*.

127895. Culli Morado. This is used for preparing a very refreshing drink.

127896. Gris de Tostar. Used for roasting and has a large amount of flour.

127897. Morocho.

127898. Wilcaparu. A low-growing variety.

127899 and 127900. CANNABIS SATIVA L. Moraceae. Hemp.

From Czechoslovakia. Seeds presented by the Director, Botanic Garden, Tabor.

127899. Common type.

127900. Var. *Himalayana*.

127901 to 127904. ZEA MAYS L. Poaceae. Corn.

From Peru. Seeds presented by Alberto Martin Lynch, Chief, Lambayeque Experiment Station, Lambayeque. Received March 18, 1938.

A collection of corn from Sasape, Departamento Lambayeque.

127901. *Alazan*.

127903. *Colorado*.

127902. *Blanco*.

127904. *Pagaladroga*.

127905. EVODIA MELIAEFOLIA (Hance) Benth. Rutaceae.

From India. Seeds presented by the Forest Research Institute, Dehra Dun, through F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, Cuba. Received March 14, 1938.

A small, much-branched tree native to India. The pinnately compound leaves are made up of 3 to 5 pairs of obliquely lanceolate leaflets 3 to 4 inches long, and the small white flowers are in cymes 8 inches across.

For previous introduction see 123003.

127906. SOLANUM TUBEROSUM L. Solanaceae.**Potato.**

From Argentina. Tubers collected by H. L. Blood, Agricultural Experiment Station, Logan, Utah, in cooperation with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received March 21, 1938.

No. 369. *Papa Silvestre*. From the "Sierra Grande," Cordoba Hills, February 19, 1938. Found in moist, coarse, sandy soil.

127907 to 127945.

From Minnesota. Scions presented by the Fruit Breeding Farm, Excelsior. Received March 22, 1938.

127907 to 127922. MALUS spp. Malaceae.**Apple.****127907 to 127917. MALUS SYLVESTRIS Mill.****127907. Beacon.****127913. Wedge.****127908. Bruce.****127914. Minnesota Jonathan.****127909. Folwell.****127915. No. 714.****127910. Malinda.****127916. No. 724.****127911. Melba.****127917. No. 1007.****127912. Red Duchess.****127918 to 127920. MALUS BACCATA (L.) Moench.****Siberian crab.****127918. Dolgo.****127920. Hyslop.****127919. Flame.****127921. MALUS BACCATA × SYLVESTRIS.****Piotosh.****127922. MALUS BACCATA (L.) Moench.****Siberian crab.****No. 240.****127923 to 127940. PRUNUS. Amygdalaceae.****127923. Ember.****127932. Tonka.****127924. Kaga.****127933. Underwood.****127925. La Crescent.****127934. Waneta.****127926. Melander.****127935. Winona.****127927. Monitor.****127936. Wisconsin No. 25.****127928. Mound.****127937. Minnesota No. 2.****127929. Pembina.****127938. Minnesota No. 101.****127930. Radisson.****127939. Minnesota No. 161.****127931. Superior.****127940. Minnesota No. 177.****127941 to 127945. PYRUS. Malaceae.****Pear.****127941. Parker.****127944. Minnesota No. 7.****127942. Minnesota No. 3.****127945. Minnesota No. 6.****127943. Minnesota No. 5.**

127946 and 127947. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From England. Scions purchased from Hillier & Sons, Winchester. Received March 22, 1938.

127946. *Castle Major*.

127947. *Cockle Pippin*.

127948 to 127952. IMPATIENS spp. Impatiensaceae.

From Java. Seeds presented by the Director, Botanic Garden, Buitenzorg. Received March 15, 1938.

127948 and 127949. *IMPATIENS BALSAMINA L.*

Garden balsam.

127948. Common type.

127949. Rose-colored flowers.

127950. *IMPATIENS PLATYPETALA Lindl.*

A succulent perennial with strong branching stems, usually reddish purple, whorled lanceolate or oval leaves, and large axillary rose-colored flowers. Native to Java.

127951. *IMPATIENS sp.*

Flore Niveo.

127952. *IMPATIENS SULTANI Hook. f.*

Sultan snapweed.

127953 to 127956. CANNABIS SATIVA L. Moraceae.

Hemp.

From Rumania. Seeds presented by Prof. T. Savulescu, Director, Rumanian Research Institute, Bucharest. Received March 16, 1938.

127953. From Cenad, Department of Timis.

127954. From Cluj, Department of Cluj.

127955. From Vasile Lupu, Department of Lasi.

127956. From Spantov, Department of Ilfov.

127957 to 127959.

From Canada. Seeds presented by the Dominion Forage Crops Laboratory, University of Saskatchewan, Saskatoon. Received March 15, 1938.

127957. *AGROPYRON DASYSTACHYUM (Hook.) Scribn.* Poaceae.

Thickspike wheatgrass.

A perennial grass up to 2 feet high with creeping rhizomes.

For previous introduction see 125039.

127958. *BOUTELOUA GRACILIS (H. B. K.) Lag.* Poaceae.

Grass.

For previous introduction see 106422.

127959. *STIPA VIRIDULA Trin.* Poaceae.

Grass.

A tufted perennial grass with stems 2 to 3 feet high. Native to North America.

127960 to 128156. EUCHLAENA MEXICANA Schrad. Poaceae. Teosinte.

From Guatemala. Seeds collected in Todos Santos Cuchumatán by Raymond Stadelman, Bureau of Plant Industry, United States Department of Agriculture. Received March 24, 1938.

Received without notes.

128157 and 128158. PRUNUS BESSEYI Bailey. Amygdalaceae.

Bessey cherry.

From South Dakota. Scions presented by N. E. Hansen, State College, Brookings. Received March 24, 1938.

128157. *Keyapaha*.

128158. *Tepee*.

128159. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

From Indiana. Scions presented by W. H. Replogle, Hagerstown. Received March 24, 1938.

Harris.

128160 to 128162.

From Austria. Seeds purchased from Grünwald & Co., Wiener-Neustadt. Received March 22, 1938.

128160. MALUS SYLVESTRIS Mill. Malaceae. Apple.

A wild apple.

128161. PRUNUS DOMESTICA L. Amygdalaceae. Common plum.

Damascena.

128162. PRUNUS MAHALEB L. Amygdalaceae. Mahaleb cherry.

From Bulgaria.

128163. CARYA OVATA (Mill.) Koch. Juglandaceae.

From Canada. Scions presented by G. H. Corsan, "Echo Valley," Islington, Ontario. Received March 25, 1938.

Neilson. The Neilson hickory nut is an Ontario variety discovered some years ago by the late James A. Neilson, State College, Mich., and by him temporarily designated as "Woodley." The name *Neilson* was later applied by Mr. Corsan. It is a true shagbark; the nuts are very large and have a thin shell which cracks easily. The tree is 70 feet tall with a spread of 35 feet and withstands a temperature of -40° F.

For previous introduction see 115663.

128164 and 128165.

From Canada. Seeds presented by the McFayden Seed Co., Winnipeg, Manitoba. Received March 23, 1938.

128164. AVENA SATIVA L. Poaceae. Oats.

Vanguard oats.

128165. TRITICUM AESTIVUM L. Poaceae. Common wheat.

Renown wheat.

128166 to 128170.

From Uruguay. Seeds presented by Bernardo Rosengurt, Montevideo. Received March 19, 1938.

128166 and 128167. BOUTELOUA MEGAPOTAMICA (Spreng.) Kuntze. Poaceae. Grass.

An erect, caespitose, perennial grass, with narrow spikelike panicles. Native to Brazil and Uruguay.

For previous introduction see 62034.

128166. Collected in Paysander by Mr. Garmendia, Escuela de Agronomía, December 1937.

128167. *Cerro Largo.* From Rio Negro y Palleros.

128168 and 128169. BRIZA TRILOBA Nees. Poaceae. Grass.

A perennial grass with stems about 6 inches high. Native to Brazil.

128168. From Fimote, Florida.

128169. From Rio Santa Lucia-Paso Cuello.

128170. MANISURIS SELLOANA (Hack.) Kuntze. Poaceae.

A caespitose, suberect grass, common in Uruguay. The slender stems are about 12 inches high.

For previous introduction see 62044.

128171 and 128172.

From New Zealand. Seeds presented by H. H. Allan, Government Botanist, Wellington. Received March 25, 1938.

128171. *MIDA SALICIFOLIA* A. Cunn. Santalaceae.

A small slender tree with extremely variable foliage and inconspicuous flowers. The wood is hard, dense, very strong, and durable. Native to New Zealand.

128172. *OLEA CUNNINGHAMII* Hook. f. Oleaceae.

Olive.

A handsome flowering shrub with whitish branches, downy young shoots, linear-oblong, leathery leaves 3 to 5 inches long, and small, greenish-white flowers in dense erect racemes. The drupes are $\frac{1}{2}$ inch long. Native to North Island, New Zealand.

For previous introduction see 48169.

128173. *SACCHARUM*. Poaceae.

Sugarcane.

From the Fiji Islands. Cuttings presented by the Colonial Sugar Refining Co., Rarawai Mill. Received March 29, 1938.

28-N.G.-269.

128174 to 128179.

From Guatemala. Seeds collected by Raymond Stadelman, Bureau of Plant Industry, United States Department of Agriculture. Received March 23, 1938.

128174 to 128178. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

128174. No. 18. From San Juan Atitán, Departamento Huehuetenango, February 28, 1938, at 7,500 feet altitude.

128175. No. 19. *Tomate Extranjero*. From San Martin Cuchumatán, Departamento Huehuetenango, February 25, 1938, at 7,000 feet altitude.

Nos. 128176 to 128178. From Jacaltenango, February 12, 1938, at about 4,000 feet altitude.

128176. Variety *Pera*.

128178. Variety *Manzana*.

128177. Variety *Riñon*.

128179. *NICOTIANA TABACUM* L. Solanaceae.

Tobacco.

From Santiago Chimaltenango, Departamento Huehuetenango, August 1937, at about 7,500 feet altitude. A mixed sample, 2 varieties, white flowered and red flowered.

128180 to 128182. *GLYCINE MAX* (L.) Merrill. Fabaceae. Soybean.

From Canada. Seeds presented by the Central Experimental Farm, Ottawa, Ontario. Received March 24, 1938.

128180. *Kabott*.

128181. *Mandarin*.

128182. *Poland Yellow*.

128183 to 128185.

From South Dakota. Scions presented by N. E. Hansen, State College, Brookings. Received March 29, 1938.

128183 and 128184. *MALUS*. Malaceae.

128183. *Red Flesh Crab*.

128184. *Zelma Crab*.

128185. *PYRUS*. Malaceae.

Pear.

Ming pear.

128186. GLADIOLUS WATSONIUS Thunb. Iridaceae.

From the Union of South Africa. Bulbs presented by W. S. Duke & Co., Cape Town. Received February 3, 1926. Numbered in March 1938.

A gladiolus with a single linear-subulate rigid basal leaf a foot long and a slender stem 1 to 1½ feet long, with 2 to 4 bright-red flowers in a lax secund spike. Native to South Africa.

128187 to 128189.

From California. Seeds collected by E. C. Auchter and H. P. Traub, Bureau of Plant Industry, United States Department of Agriculture. Received March 24, 1938.

128187. CEREUS sp. Cactaceae.

Presented by the Huntington Botanical Gardens, San Marino. A cactus said to be promising for its edible fruits.

128188. PENSTEMON sp. Scrophulariaceae.

Collected in the Santa Rosa Mountains, September 10, 1937.

128189. PENSTEMON sp. Scrophulariaceae.

Collected in the Santa Rosa Mountains, September 10, 1937. A species with blue flowers.

128190. PASPALUM PANICULATUM L. (*P. galmarra* F. M. Bailey). Poaceae. Grass.

From the Fiji Islands. Seeds presented by Richard B. Howard, Navua, via Suva. Received March 23, 1938.

Russell River grass. A purely tropical pasture grass with about the same nutritional value as *Paspalum dilatatum*. It seeds abundantly, has an abnormal carrying capacity, and all kinds of stock eat it greedily.

128191. MUSA FEHI Bert. Musaceae. Fei plantain.

From Hawaii. Rootstocks presented by the Hawaii Agricultural Experiment Station, Honolulu. Received March 30, 1938.

An upright-fruiting Hawaiian variety with red fruits. The young shoots are very long and slender.

For previous introduction see 58432.

128192. BROMUS CATHARTICUS Vahl. Poaceae. Grass.

From Australia. Seeds presented by William Ewart, secretary, Queensland Acclimatisation Society, Brisbane, Queensland. Received March 29, 1938.

An annual or biennial grass up to 2 feet high which forms a large stool and spreads rapidly from the root divisions. It is native to South America and is a good forage grass.

For previous introduction see 111271.

128193 to 128195.

From Mexico. Seeds presented by Jesús Acuña Ordaz, Cerro Prieto Atoyac, Guerrero. Received March 30, 1938.

128193. CAJANUS CAJAN (L.) Druce. Fabaceae. Pigeonpea.

An edible bean.

128194. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

A wild red tomato.

128195. PHYSALIS sp. Solanaceae.

Tomate de Cascara.

128196 and 128197. BOMAREA spp. Amaryllidaceae.

From Colombia. Seeds presented by M. J. Rivero, Cali. Received March 26, 1938.

128196. BOMAREA sp.

A climber, cultivated for its red flowers.

128197. BOMAREA sp.

A vine with purple flowers.

128198. PICEA GLAUCA (Moench) Voss. Pinaceae.**Spruce.**

From Massachusetts. Seeds purchased from F. W. Schumacher, Jamaica Plain. Received March 28, 1938.

A silvery blue form received under the name "Hursti."

128199 to 128322.

From Bolivia, Argentina, and Peru. Seeds collected by H. L. Blood, Agricultural Experiment Station, Logan, Utah, in cooperation with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received March 22, 1938.

128199 to 128202. CAPSICUM FRUTESCENS L. Solanaceae. Common redpepper.

128199. No. 322. From the market at Tarija, Bolivia, February 11, 1938. Fruit small, round; used as a condiment.

128200. No. 323. From the market at Tarija, Bolivia, February 11, 1938, but grown in Campina. Fruit elongated, orange-colored; used as a condiment.

128201. No. 338. From the market at Jujuy, Argentina, February 15, 1938. Fruit locally grown, small, yellow.

128202. No. 286. From the market at Sucre, Bolivia, February 3, 1938. A locally grown wild fruit, very small, red or yellow. Used pickled by the Indians and sold in the market as "condimento."

128203 to 128207. CUCURBITA spp. Cucurbitaceae.

From the market at Tucumán, Argentina, February 17, 1938.

128203. CUCURBITA FICIFOLIA Bouche.**Alcallota.**

No. 358. A melon, native to Ecuador, where it is cultivated extensively and used for food for man as well as for stock. The melons average 20 to 30 pounds each; when completely ripe, the shell is very hard, the flesh white, and the seeds black. There are two varieties, the white and the green-and-white striped.

For previous introduction see 115176.

128204. CUCURBITA MAXIMA Duchesne.**Squash.**

No. 361. Fruit round with rugose spots.

128205. CUCURBITA MOSCHATA Duchesne.**Cushaw.**

No. 362. Fruit pear-shaped.

128206 and 128207. CUCURBITA PEPO L.**Pumpkin.**

128206. No. 359. Fruit flattish, yellow and green mottled.

128207. No. 360. Fruit dark green, round, rough, covered with warts.

128208. IPOMOEA CAIRICA (L.) Sweet. Convolvulaceae.

No. 387. From the Cordoba Gardens, Argentina, February 21, 1938, and also observed growing wild along the railroad right-of-way. A small vigorous ornamental vine with trumpetlike, lavender to white, red-throated flowers and palmately compound leaves.

For previous introduction see 116515.

128199 to 128322—Continued

128209. *JACARANDA* sp. Bignoniaceae.

No. 294. *Tarco*. From the formal garden of the Princess of Sucre, just below Sucre, Bolivia, February 4, 1938, at about 8,000 feet altitude. A tree with pinnately compound leaves and flowers reported to be large, bell-shaped, and brown.

128210. *JUGLANS AUSTRALIS* Griseb. Juglandaceae.

Walnut.

No. 363. From the mountains west of Tucumán, Argentina, February 19, 1938. A tree 40 to 60 feet high.

128211. *JUGLANS* sp. Juglandaceae.

No. 324. *Monocaco*. From Tarija, Bolivia, February 11, 1938. A tree 75 feet tall with a trunk 3 feet in diameter.

128212. *LYCIUM* sp. Solanaceae.

No. 287. *Papango*. From Yotala, Bolivia, February 4, 1938, at about 7,900 feet altitude. A shrubby plant with few thorns; flowers white; leaves lanceolate; fruit white at maturity.

128213. *LYCIUM* sp. Solanaceae.

No. 320. From a field near Tarija, Bolivia. A shrub with long trumpet-shaped violet flowers and small round orange-red fruits, less than $\frac{1}{2}$ inch in diameter.

128214 to 128294. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

128214. No. 339. From the market at Jujuy, Argentina, February 15, 1938. Fruit small, round, red.

128215. No. 228. From Chulumani, Bolivia, January 20, 1938. Fruit cherry formed, 2-celled.

128216. No. 239. Collected along the roadside between Chulumani and La Paz, Bolivia, at about 5,000 feet altitude. An escape from cultivation.

Nos. 128217 to 128223. January 24, 1938. From the market at La Paz, Bolivia, but grown in Rio Bojo.

128217. No. 246. Fruit large, red, and very rough.

128218. No. 247. Fruit large, rough, yellow.

128219. No. 248. Fruit round, plum-shaped, yellow.

128220. No. 249. Fruit small, flat, yellow.

128221. No. 250. Fruit small, red, flat, 4-celled.

128222. No. 251. Fruit cherry red, 2- to 3-celled.

128223. No. 253. Fruit small, flat, red.

Nos. 128224 to 128228. From the market at Quillocallo, Bolivia, January 30, 1938.

128224. No. 256. Fruit round, plum-shaped, smooth, about $\frac{1}{2}$ inch in diameter; grown in the Cochabamba Valley.

128225. No. 257. Fruit small, flat, red; about $\frac{1}{2}$ inch in diameter and not quite so thick.

128226. No. 258. Fruit large, rough, yellow.

128227. No. 259. Fruit small, flat, yellow.

128228. No. 260. Fruit red.

128229. No. 261. From Calacala, Bolivia, January 30, 1938. Fruit flat, smooth, red, with cracks around the stem end.

Nos. 128230 to 128237. From the market at Cochabamba, Bolivia, January 31, 1938.

128230. No. 265. Grown at Calacala; fruit small, round, plum-shaped; over $\frac{1}{2}$ inch in diameter.

128199 to 128322—Continued

128231. No. 266. Grown at Calacala; fruit small, pear-shaped, red, over $\frac{1}{2}$ inch long.

128232. No. 267. Locally grown; fruit small, round, cherry-shaped, over $\frac{1}{2}$ inch in diameter.

128233. No. 268. Grown at Calacala; fruit slightly elongated, plum-shaped, over $\frac{1}{2}$ inch in diameter.

128234. No. 269. Grown near Calacala; fruit medium-sized, rough and yellow.

128235. No. 270. Fruit locally grown; small, flat, and very rough.

128236. No. 271. Grown at Punata; fruit yellow, a mixed type, mostly rough.

128237. No. 272. Grown at Punata; fruit small, plum-shaped.

Nos. 128238 to 128240. From the market at Buen Retiro, Bolivia, but grown at Santira, about 7,800 feet altitude, February 2, 1938.

128238. No. 274. Fruit red, pear-shaped.

128239. No. 275. Fruit red, plum-shaped.

128240. No. 276. Fruit cherry-shaped.

Nos. 128241 to 128247. From the market at Sucre, Bolivia, but grown at Sotomayo, February 2 and 3, 1938.

128241. No. 277. Fruit red, large and rough.

128242. No. 278. Fruit round, ribbed and flat, over 1 inch in diameter.

128243. No. 279. Fruit red, faintly ribbed, subglobose, over 1 inch in diameter.

128244. No. 280. Fruit red, small, subglobose, 2- to 4-celled.

128245. No. 281. Fruit cherry red, 1 inch in diameter.

128246. No. 282. Fruit round, cherry red, 1 inch in diameter.

128247. No. 283. Fruit small, red, round, less than 1 inch in diameter.

Nos. 128248 to 128252. From the market at Sucre, Bolivia, February 3 to 5, 1928.

128248. No. 284. Fruit small, rough, flat, yellow, 3- to 5-celled, locally grown.

128249. No. 285. Grown at Sotomayo; fruit round, yellow, over 1 inch in diameter.

128250. No. 295. Fruit large, yellow, and rough.

128251. No. 296. Fruit rectangular, yellow, tending toward plum type.

128252. No. 297. Fruit red, elongated.

Nos. 128253 and 128254. From Potosi, Bolivia, February 9, 1938.

128253. No. 300. Fruit large, yellow, rough.

128254. No. 301. Fruit small, flat, red.

Nos. 128255 to 128269. From the market at Tarija, Bolivia, February 11, 1938.

128255. No. 303. Fruit large, rough, pink; cultivated in this region for a long time.

128256. No. 307. Fruit large, rough, yellow; cultivated in this region for a long time.

128257. No. 304. Fruit large, rough, and red; cultivated in this region for a long time.

128258. No. 305. Fruit smooth, subglobose, over 2 inches in diameter.

128259. No. 306. Fruit large, smooth, slightly flat; cultivated.

128260. No. 308. Fruit small, globular to ovoid.

128261. No. 309. Fruit small, red, round like a large cherry; resembles the wild form.

128199 to 128322—Continued

128262. No. 310. Fruit large, round, pink; over 1 inch in diameter.
128263. No. 311. Fruit small, pear-shaped; over 1 inch in diameter.
128264. No. 312. Fruit very long, rectangular, over 2 inches in diameter; resembles some Italian tomato, probably a recent introduction.

128265. No. 313. Fruit yellow, pear-shaped.

128266. No. 314. Fruit top-shaped with the stem at the pointed end.

128267. No. 315. Fruit round, yellow; 1 inch in diameter.

128268. No. 316. Fruit round, yellow, over 1 inch in diameter.

128269. No. 317. Fruit small, yellow, rough.

128270. No. 318. From the experiment farm at Tarija, Bolivia, February 11, 1938. Fruit smooth, uniformly red, round and very firm. Introduced from Argentina in 1930 and selected; an exceptional tomato for this country.

128271. No. 319. From the experimental farm at Tarija, Bolivia, February 11, 1938, but grown in this region for a long time. Fruit large, rough and red, vines small, foliage very delicate.

Nos. 128272 and 128273. From the market at Jujuy, Argentina, February 13, 1938.

128272. No. 327. Fruit small, red, stem scar larger and more conspicuous than on typical cherrylike variety; wild, poor quality.

128273. No. 328. Fruit long, Italian pear-shaped type; grown in this region for a long while; mixed with other types.

Nos. 128274 to 128276. From the market at Salta, Argentina. February 14, 1938.

128274. No. 335. Fruit small, round, red.

128275. No. 336. Fruit very small, round, red.

128276. No. 337. Fruit small, elongated, near the plum type.

Nos. 128277 to 128284. From the market at Jujuy, Argentina, February 15, 1938, at 5,200 feet altitude.

128277. No. 340. Fruit small, red, round type slightly elongated; appears free from disease.

128278. No. 341. Fruit small, red, plum and round types mixed; approaching a native type.

128279. No. 342. Fruit small, red, pear type.

128280. No. 343. Fruit elongated with truncated shoulders; a modified pear type.

128281. No. 344. Fruit small, red, elongated; a regular type.

128282. No. 345. Fruit small, red, pear-shaped.

128283. No. 346. Fruit red, cherry formed, but not of wild type; stem and scar too large.

128284. No. 347. Fruit small, round, yellow.

Nos. 128285 to 128298. From the market at Tucumán, Argentina, February 16, 1938.

128285. No. 349. Fruit round, deep red; grown in San Juan.

128286. No. 350. Fruit small, red, flat, ribbed; grown in San Juan.

128287. No. 351. Fruit large, round, grown in San Juan.

128288. No. 352. Fruit small, red, standard type; grown in Chaco.

128289. No. 353. Fruit large, flat, red, standard type; grown in San Juan.

Nos. 128290 to 128294. From the market at Cordoba, Argentina, February 21, 1938.

128199 to 128322—Continued

128290. No. 282. Fruit round, smooth, tending to be slightly flat, a good type, free from disease. Grown in La Rioja.

128291. No. 384. Fruit large, smooth; locally grown.

128292. No. 385. Fruit small, smooth, round type; grown in San Juan.

128293. No. 386. Fruit smooth, round, deep type; grown in San Juan.

128294. No. 383. Fruit small, round, cherry type, resembling wild forms; locally grown.

128295. *NICOTIANA* sp. Solanaceae.

No. 333. From between Jujuy and Salta, Argentina, along the roadside in loam soils, February 14, 1938. Plants 2 to 3 feet high; flowers long, white, some with pinkish cast.

128296. *PASSIFLORA* sp. Passifloraceae.

No. 252. *Tumbo Pequeño*. Grown in the flower gardens of La Paz, Bolivia, as an ornamental; the fruit is sold on the market. Vine of great length and extensive coverage; fruit cucumberlike, 3 to 4 inches long, yellow, edible.

128297. *PASSIFLORA* sp. Passifloraceae.

No. 376. *Tumbo Chico*. Found west of Cordoba, Argentina, in fields along the roadside and fence lines, in dry loam soils. Small vine type; flowers blue; fruit round and orange.

128298. *PETUNIA VIOLACEA* Lindl. Solanaceae.

No. 370. From Copina, in the Cordoba Hills, Argentina, February 19, 1938, in moist gravelly soil. A petunia, native to Argentina, with dark-green leaves and a profusion of white and pinkish to purple flowers with long trumpet.

For previous introduction see 51109.

128299 to 128301. *PHYSALIS* spp. Solanaceae.

128299. *PHYSALIS* sp.

No. 288. *Tipilla*. Down the river from Yotala, Bolivia, at about 7,800 feet altitude.

128300. *PHYSALIS* sp.

No. 321. *Pacpacha*. From Tarija, Bolivia, February 11, 1938.

128301. *PHYSALIS* sp.

No. 377. From along the roadside west of Cordoba, Argentina, February 19, 1938, in dry loam soil. A low perennial; fruit firm, yellow; flesh dry, deep orange yellow, and very aromatic.

128302. *PITHECOCTENIUM CYNANCHOIDES* DC. Bignoniaceae.

Argentine monkeycomb.

No. 374. From west of Cordoba, Argentina, February 19, 1938. A woody vine climbing by tendrils on the leaves. The large pure-white, trumpetlike flowers are borne in terminal pairs, usually throughout the year.

For previous introduction see 42328.

128303. *POA HORRIDULA* Pilger. Poaceae.

Grass.

No. 215. Above Abancay, Peru, January 15, 1938, at 10,500 feet altitude. An erect perennial grass, 2½ to 3 feet tall, often in large clumps, growing among rocks. Native to Peru.

128304. *SIDA* sp. Malvaceae.

No. 299. From Vila Vila, between Sucre and Potosi, Bolivia, at about 10,000 feet altitude, February 7, 1938. A spreading procumbent plant with lanceolate leaves and orange-yellow blossoms.

128305 to 128319. *SOLANUM* spp. Solanaceae.

128305. *SOLANUM* sp.

No. 264. From above Calacala, Bolivia, January 30, 1938. A very thorny plant with deeply cleft leaves and purple flowers.

128199 to 128322—Continued

128306. SOLANUM sp.

No. 330. On hills between Jujuy and Salta, Argentina, on steep mountain slopes where humidity is high, February 14, 1938. Plants 6 to 12 feet high; fruit top-shaped, yellow.

128307. SOLANUM sp.

No. 356. On a mountainside, west of Tucumán, Argentina, February 17, 1938, in exposed area and rocky soil. A herbaceous plant up to 5 feet high; fruit green at maturity.

128308. SOLANUM sp.

No. 273. Collected by the Indians about Cochabamba, Bolivia, January 31, 1938. Fruit red, calyx lobes spiny, large, almost enclosing the fruit.

128309. SOLANUM sp.

No. 298. From Tucumbu, Bolivia, February 7, 1938, at about 10,000 feet altitude. A dwarf type of yellow solanum; flowers white with conspicuous stamens.

128310. SOLANUM sp.

No. 193. Above Limatambo, Peru, about 12,400 feet altitude, January 14, 1938. A slender delicate vine with white flowers and ovoid fruits.

128311. SOLANUM sp.

No. 209. From a hillside above Curahausi, Peru, January 15, 1938, about 9,000 feet altitude. A bushy herbaceous plant with the leaves and stems slightly viscous.

128312. SOLANUM sp.

No. 263. From the foothills above Calacala, Bolivia, January 30, 1938, growing in shade in gravelly loam. A herbaceous plant, 3 to 5 feet high, which resembles *Solanum nigrum*. Fruit small and dark green at maturity.

128313. SOLANUM sp.

No. 293. From below Sucre, Bolivia, February 4, 1938, at 8,000 feet altitude; presented by an Indian as a "wild tomato." A spiny plant with round, red, edible fruits.

128314. SOLANUM sp.

No. 329. From the hills between Jujuy and Salta, Argentina, February 14, 1938.

128315. SOLANUM sp.

No. 334. Along the highway between Jujuy and Salta, Argentina, February 14, 1938. Plant spiny; flowers purplish white to white; fruits red, cherry-shaped.

128316. SOLANUM sp.

No. 371. At Copina, in the "Sierra Grandes," Cordoba Hills, Argentina, February 19, 1938. A plant with leaves 18 inches long and white flowers with yellow anthers.

128317. SOLANUM sp.

No. 375. From west of Cordoba, Argentina, February 19, 1938. A spiny plant, 6 to 12 inches high, with purple flowers and yellow fruits.

128318. SOLANUM sp.

No. 262. From hills above Calacala, Bolivia, January 30, 1938, in gravelly soil. A shrubby plant with elongated leaves and long yellow fruits. Native to Bolivia.

128319. SOLANUM sp.

No. 355. From the mountainside west of Tucumán, Argentina, February 17, 1938, at about 3,800 feet altitude. A shrubby plant 10 to 15 feet high; fruits red, borne in clusters; flowers purple.

128199 to 128322—Continued

128320. STERCOLIA sp. Sterculiaceae.

No. 348. From Jujuy, Argentina, February 15, 1938. Young trees, 15 feet high, pyramidal and symmetrical.

128321. TRisetum SPICATUM (L.) Richter. Poaceae.

Grass.

No. 216. On hillside above Abañcy, Peru, at about 10,500 feet altitude, January 15, 1938. A grass 2 feet high.

For previous introduction see 114290.

128322. VERBENA sp. Verbenaceae.

No. 366. From hills of Cordoba, Argentina, February 19, 1938. A prostrate plant, leaves linear dentate with acute tips and few conspicuous hairs; flowers rose, red, and blue.

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