

# UNITED STATES DEPARTMENT OF AGRICULTURE



## INVENTORY No. 126



Washington, D. C.

Issued June 1940

### PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY, JANUARY 1 TO MARCH 31, 1936 (Nos. 113513-114313)

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#### INTRODUCTORY STATEMENT

This inventory, No. 126, records the plant material received by the Division of Plant Exploration and Introduction during the period from January 1 to March 31, 1936 (Nos. 113513 to 114313).

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

B. Y. MORRISON,  
*Principal Horticulturist, in Charge.*

DIVISION OF PLANT EXPLORATION AND INTRODUCTION,  
*Washington, D. C., June 24, 1939.*



## INVENTORY<sup>1</sup>

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

### 113513. PINNELLIA TERNATA (Thunb.)

Brent. Araceae.

From China. Bulbs collected by Peter Liu, near Peiping. Received January 7, 1936.

A hardy bulbous perennial closely related to the arums, with three-parted leaves; the oblong-elliptic leaflets are about 3 inches long. Native to eastern China.

### 113514 to 113516.

From Egypt. Seeds presented by the Horticultural Section, Ministry of Agriculture, Giza. Received January 7, 1936.

Native Egyptian types.

113514. *APIUM GRAVEOLENS* L. Apiaceae.  
Celery.

113515. *DAUCUS CAROTA* L. Apiaceae.  
Carrot.

113516. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae.  
Tomato.

### 113517 to 113519.

From the Union of Soviet Socialist Republics. Seeds presented by the Department of New Cultures and Introduction, Institute of Plant Industry of the Lenin Academy of Agricultural Sciences, Leningrad. Received January 7, 1936.

113517. *AGROPYRON SIBIRICUM* (Willd.) Beauv. Poaceae.  
Grass.

No. 1141. From Kazakstan, Turkistan.

113518. *CAREX PHYSOIDES* Bleh. Cyperaceae.

No. 141031. From Turkistan.

### 113517 to 113519—Continued.

113519. *IGIOLIRION TATARICUM* (Pall.) Herbert. Amaryllidaceae.

No. 141576. From Repetek, Turkistan. A bulbous perennial, native from the Caucasus through central Asia, with awl-shaped leaves and terminal umbels of deep-blue or violet lilylike flowers, which are borne in the spring.

For previous introduction see 107935.

113520 to 113523. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

From Hungary. Seeds presented by Dr. Bela Husz, Budapest. Received January 9, 1936.

A collection of winter wheats.

113520. No. B-1201. 113522. No. B-1205.

113521. No. B-1095. 113523. *Prolific*.

### 113524 to 113534.

From the Soviet Union. Plants presented by the Department of New Cultures and Introduction, Institute of Plant Industry of the Lenin Academy of Agricultural Science, Leningrad. Received January 10, 1936.

113524 to 113533. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.

113524. *Arzami*.

113525. *Badami*.

113526. *Badem-Erik*.

113527. *Baradjali*.

113528. *Geogdjanabad*.

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

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

## 113524 to 113534—Continued.

113529. *Kandak*.113530. *Khurma*.113531. *Kisil-mirsandjak*.113532. *Mirsandjak*.113533. *Spitak*.113534. × *PRUNUS DASYCARPA* Ehrh.  
Amygdalaceae. Plum-apricot.No. 2489. *Flor Tstran*.113535. *CITRUS GRANDIS* (L.) Osbeck.  
Rutaceae. Grapefruit.

From Mexico. Bud sticks presented by F. W. Smith, Guasave, Sinaloa. Received January 13, 1936.

A pink-fleshed variety.

113536. *GOSYPIUM*. Malvaceae. Cotton.

From Puerto Rico. Seeds presented by a Mr. McCubbin, San Juan. Received January 3, 1936.

113537 and 113538. *PASSIFLORA* spp.  
Passifloraceae.

From Australia. Seeds presented by J. Haseley, Punchbowl, New South Wales. Received January 10, 1936.

113537. *PASSIFLORA EDULIS* Sims.  
Purple granadilla.

From Norfolk Island, New South Wales. This is the principal commercial passion fruit of the island, but it is killed back to the roots by temperatures of 24° to 17° F.

113538. *PASSIFLORA MOLLISSIMA* (H. B. K.) Bailey.  
Softleaf passionflower.

A climbing plant that produces ovate, pointed, yellow acid fruits of excellent quality.

For previous introduction see 106448.

113539. *EUPHORBIA LOPHOGONA* Lam.  
Euphorbiaceae.

From Madagascar. Plants presented by Miss Beryla Rateaver. Received September 24, 1935. Numbered in January 1936.

A small erect spineless succulent with persistent stipules on the stem which is woody at the base, deep-green obovate leaves up to 8 inches long, and cymes with small white to pinkish bracts. Native to Madagascar.

113540 to 113542. *RIBES* spp. Grossulariaceae.

From the Soviet Union. Plants presented by the Minchurinsk Experiment Station. Received January 6, 1936.

113540 and 113541. *RIBES PETRAEUM ATROPURPUREUM* (C. A. Mey.) Jancz.

A variety with red or blackish purple fruit. Native to central Asia.

113540. No. 2.

113541. No. 3.

113542. *RIBES CYATHIFORME* Pojark.

No. 116-R. A wild black currant native to the mountains of central Asia.

113543 and 113544. *TRIPTYERYGIUM* spp.  
Celastraceae.

From China. Cuttings collected by Peter Liu, in Chekiang Province. Received January 2, 1936.

*Lei Kung T'eng*. A handsome shrub conspicuous chiefly for its large bright-green foliage, contrasting well with the reddish brown stems terminated in July and August by conspicuous panicles of small, whitish, fragrant flowers.

113543. From near Erh Shih Pa Tu in Yi Wu District.

113544. From near Shih Hsia K'ou in Chuki District.

113545. *PINANGA* sp. Phoenicaceae.

From the Philippine Islands. Seeds presented by David Barry &amp; Co., Los Angeles, Calif. Received January 6, 1936.

113546 to 113549. *FRAGARIA VESCA* L.  
Rosaceae. Alpine strawberry.

From England. Plants purchased from George Bunyard &amp; Co., Ltd., the Royal Nurseries, Maidstone. Received January 2, 1936.

113546. *Alpine Improved Red*.113547. *Belle De Meaux*.113548. *Bush White*.113549. *Common White*.113550 and 113551. *SOLANUM* spp. Solanaceae.

From the Union of South Africa. Seeds presented by Dr. A. P. D. McLean, Natal Herbarium, Durban. Received January 10, 1936.

113550. *SOLANUM DUPLO-SINUATUM* Klotzsch.

A spiny shrub 3 to 6 feet high, with large sinuate leaves and few-flowered cymes of bell-shaped blue flowers about 1½ inches across. Native to tropical Africa.

113551. *SOLANUM INCANUM* L.

A tender evergreen shrub up to 5 feet high, with ovate to ovate-elliptic leaves and showy, nodding purple flowers, solitary or few-clustered. Native to eastern Africa and southern Asia.

113552. *TRIFOLIUM REPENS* L. Fabaceae.  
White clover.

From England. Seeds presented by Gartons Ltd. Warrington. Received January 11, 1936.

*Kent Wild* white clover.113553 and 113554. *PHALARIS* spp. Poaceae.

From South Australia. Seeds presented by the Waite Agricultural Research Institute, Glen Osmond. Received January 2, 1936.

113553. *PHALARIS COERULESCENS* Desf.  
Canary grass.113554. *PHALARIS TUBEROSA* L.  
Toowoomba canary grass.

113555 to 113558.

From Hungary. Seeds presented by Dr. Bela Husz, Budapest. Received January 8, 1936.

113555 and 113556. *LINUM USITATISSIMUM* L. Linaceae. Flax.

113555. Oil flax.

113556. Fiber flax.

113557 and 113558. *TRITICUM AESTIVUM* L. Poaceae. Wheat.

113557. No. 5512. Winter wheat.

113558. No. 5542. Winter wheat.

113559 to 113563. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

From Colombia. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received January 21, 1936.

Collected in the Departamento Tolima, January 11, 1936.

113559. No. 59. A sample containing *Costillo negro*, *Costillo blanco*, and *Pina*, from Armero.

113560. No. 60. A sample containing *Costillo negro*, *Costillo blanco*, *Pina*, and others, from Rastrojos.

113561. No. 61. A field sample containing *Costillo negro*, *Costillo blanco*, *Pina*, and others from Rastrojos.

113562. No. 62. *Ambalema*. From Estación Agrícola de Armero.

113563. No. 63. *Ambalema*. From Estación Agrícola de Armero.

113564. *XYLOSMA FLEXUOSA* (H. B. K.) Hemsl. Flacourtiaceae.

From Texas. Seeds presented by Peter Heinz, Brownsville. Received January 17, 1936.

*Hutchinchiltemel*. A shrub or small tree up to 20 feet high, with glabrous leaves and numerous fragrant flowers followed by small dark-red fruits, about one-fourth inch in diameter. The fruits are very conspicuous and numerous, covering the entire plant, making a more attractive appearance than holly. This plant is cultivated as an ornamental in San Luis Potosi, Mexico.

113565 to 113578.

From the Union of South Africa. Seeds purchased from the Winton Nurseries, Bonnie Vale, Cape Province. Received January 13, 1936.

113565. *ANTHERICUM FALCATUM* L. f. Liliaceae.

A herbaceous perennial with linear radical leaves about 1 foot long and many small white vanilla-scented flowers in lax racemes. Native to South Africa.

113566. *FERRARIA OBTUSIFOLIA* Sweet. Iridaceae.

A densely bunched bulbous plant about 1 foot high, with short, sword-shaped leaves and a corymb of showy brownish-purple, fringed flowers. Native to South Africa.

113567. *GLADIOLUS BLANDUS* Ait. Iridaceae.

A South African gladiolus with sword-shaped leaves somewhat shorter than the stem, which is from 6 to 24 inches in

113565 to 113578—Continued.

height and which bears 3 to 10 white or reddish tinted scentless flowers, each over an inch long.

For previous introduction see 106737.

113568. *GLADIOLUS CALLISTUS* Bolus f. Iridaceae.

A plant 30 to 40 inches high, with 4 to 7 narrow sword-shaped leaves 1 to 2 feet long and 2 stem leaves. The flowers, white suffused with pink and 9 to 12 in number, are produced on 1 to 3 branches.

For previous introduction see 105286.

113569. *IXIA PANICULATA TENUIFLORA* (Vahl) Baker. Iridaceae.

A South African ixia with several linear basal leaves up to 18 inches long and many creamy-white flowers, the segments about 1 inch long. The lax erect spikes on stems 1 to 3 feet high are sometimes branched.

113570 to 113574. *GLADIOLUS* spp. Iridaceae.

113570. *GLADIOLUS GRACILIS* Jacq.

A plant with about three rigid, subterete leaves a foot or less long and very slender stems up to 2 feet high, bearing two to six pale-illac, scentless flowers in a lax secund spike. Native to South Africa.

For previous introduction see 105288.

113571. *GLADIOLUS GRANDIS* Thunb.

Closely related to *Gladiolus tristis*, this has three strongly terete leaves 12 to 18 inches long and a slender stem up to 2 feet high. The purplish, brown-tinged flowers are 2 to 3 inches long, in a lax secund spike. Native to the Cape of Good Hope.

For previous introduction see 105289.

113572. *GLADIOLUS PERMEABILIS* Delar.

A South African gladiolus of the Hebea group, with firm narrow-linear or subterete leaves up to a foot long, and a slender flexuose stem about as long bearing 6 to 12 pale-pink or lilac flowers in lax simple or branched spikes.

113573. *GLADIOLUS PULCHELLUS* Klatt.

A South African gladiolus with a simple or branched stem about 1 foot high and 4 to 8 pinkish-purple, highly scented flowers in a lax spike, the upper segments long clawed.

113574. *GLADIOLUS UNDULATUS* Jacq.

A bulbous plant with a stem a foot high, including the spike and several sword-shaped leaves about a foot long. The four to six flowers are milk white marked with red and are produced in a very lax spike. Native to South Africa.

For previous introduction see 44728.

113575. *HESPERANTHA* sp. Iridaceae.

A species with white, star-shaped flowers.

113576. *HOMERIA ELEGANS* (Jacq.) Sweet. Iridaceae.

A bulbous plant with a single linear leaf about 1 foot long and a stem about as long, with one to four clusters of showy bright-yellow flowers, the outer segments heavily blotched with a maroon or greenish mark in the center. Native to South Africa.

## 113565 to 113578—Continued.

113577. *LAPETROUSIA FISSIFOLIA* (Jacq.) Ker-Gawl. Iridaceae.

A summer-flowering bulbous plant with a short stem, flat linear leaves, and showy dark-violet to whitish flowers on a leafy spike. Native to South Africa.

113578. *TULBAGHIA CERPACIA* L. f. Liliaceae.

A herbaceous perennial with 4 to 6 narrow-linear radical garlic-scented leaves and a scape a foot high, bearing an umbel of 6 to 12 small lilac flowers. Native to South Africa.

113579 to 113590. *NICOTIANA TABACUM* L. Solanaceae.

From Guatemala. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received January 22, 1936.

113579. No. 3646. Volunteer plants collected November 23, 1935, at Patzún, Departamento Chimaltenango.

113580 to 113583. Collected November 24, 1935, at Santa Cruz Quiche, Departamento Quiche.

113580. No. 3647. *Oriollo*.

113581. No. 3648. *Oriollo*.

113582. No. 3649. *Bobo*.

113583. No. 3650. *Virginia*.

113584. No. 3651. Collected November 25, 1935, at Tecpan, Departamento Chimaltenango.

113585. No. 3652. Cultivated tobacco; collected November 25, 1935, near Patzún, Departamento Chimaltenango.

113586 to 113588. Cultivated tobacco; collected November 26, 1935, at Guatemala City.

113586. No. 3653. *Olopo*.

113587. No. 3654. *Punta de Lanzo*.

113588. No. 3655. *Cubano*.

113589. No. 3656. A mixed sample of cultivated tobacco collected January 5, 1936, at Zacapa.

113590. No. 3658. *Punta de Lanza*. Cultivated tobacco collected January 6, 1936, at Zacapa.

113591 and 113592. *MALUS* spp. Malaceae.

From Canada. Scions presented by R. M. Wilson, Department of Agriculture, Dominion Experimental Farm, Indian Head, Saskatchewan. Received January 23, 1936.

Locally grown crab apple varieties.

113591. *MALUS* sp.

*Pioneer*.

113592. *MALUS* sp.

*Robin*.

113593. *GOSSYPIUM* sp. Malvaceae.

From Mexico. Seeds collected by F. W. Smith, Guasave, Sinaloa. Received January 13, 1936, via Nogales, Arizona.

A semiwild, perennial cotton, which is only slightly affected by the diseases and insects that work much damage to cultivated cotton.

113594 and 113595. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

From Australia. Seeds presented by H. Wenholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received January 9, 1936.

113594. *Calare*; from the Senora Experiment Farm.

113595. *Felix*; from the Senora Experiment Farm.

113596 to 113604. *ZEA MAYS* L. Poaceae. Corn.

From Australia. Seeds presented by the Department of Agriculture and Stock, Brisbane, Queensland. Received January 15, 1936.

113596. *Line 2*. 113601. *Line 36*.

113597. *Line 12*. 113602. *Line 39*.

113598. *Line 20*. 113603. *Line 50*.

113599. *Line 26*. 113604. *Line 61*.

113600. *Line 29*.

113605 to 113619. *ORYZA SATIVA* L. Poaceae. Rice.

From Japan. Seeds presented by the South Korean branch station, Agricultural Experiment Station, Government-General of Chosen. Received January 15, 1936.

Grown at the Rice Experiment Station, Rici, Chosen.

113605. No. 39. From Nansen Station No. 10.

113606. No. 42. From Nansen Station No. 13.

113607. No. 43. Station No. 14.

113608. No. 46. Station No. 17.

113609. No. 50. Station No. 21.

113610. No. 38. *Aikoku*.

113611. No. 327. *Taikyu-so*.

113612. No. 329. *Odashiro*.

113613. No. 334. *Kamenco*.

113614. No. 337. *Ninode*.

113615. No. 348. *Nishiki No. 72*.

113616. No. 351. *Kokuryo-Miyako*.

113617. No. 352. *Sekizarusu*.

113618. No. 353. *Tamanishiki*.

113619. No. 355. *Yinboyu*.

## 113620 to 113622.

From India. Seeds presented by I. D. Mahendru, Divisional Forest Officer, Silva Research Forest Division, Lahore, Punjab. Received January 20, 1936.

Nos. 113620 and 113621 were collected near the Tibetan border at 9,000 feet altitude at Chini, Bashahr State.

113620. *EPHEDRA GERARDIANA* Wall. Gnetaeae.

A stiff erect leafless shrub 2 to 4 feet high, native to India, with green branches, inconspicuous flowers, and bright-red fruits.

For previous introduction see 107620.

113630 to 113632—Continued.

113631. *EPHEDRA INTERMEDIA* Schrenk and Mey. Gnetaceae.

A shrubby leafless plant with a creeping rootstalk and a short woody stem 3 to 4 inches high, simple or with a few branches. It is native to Sungaria.

For previous introduction see 101454.

113632. *PHOENIX OUSELEYANA* Griffith. Phoenicaceae. Dwarf date palm.

From the bank of the Beas River, Kangra Valley, Mandi State, at 2,600 feet altitude. A spiny palm with a short stem up to 12 feet in height and 9 inches in diameter, densely covered with the stumps of leafstalks. The edible fruits are orange colored until fully ripe when they become black. The pinnate leaves are 4 to 8 feet long, with pliable clustered leaflets more or less four ranked. Native to the southern slopes of the Himalayas and to the East Indies.

For previous introduction see 54767.

113623. *DERBIS* sp. Fabaceae.

From Guatemala. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received January 22, 1936.

No. 3657. *Palo de Zope*. Presented by the Director of Agriculture.

113624 to 113636. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

From Colombia. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received January 27, 1936.

Nos. 113624 to 113630 were collected in the vicinity of Espinal Tolima, December 31, 1935.

113634. No. 46. *Costillo negro*.

113635. No. 47. *Costillo negro*.

113636. No. 48. *Costillo Habana*.

113637. No. 49. *Pina*.

113638. No. 50.

113639. No. 51. *Olon*.

113630. No. 52. *Costillo Habana*.

113631. No. 53. *Palmira*. From the vicinity of Espinal, Tolima, January 1, 1936.

Nos. 113632 to 113636 were collected in the vicinity of Guamo, Tolima, January 4, 1936.

113632. No. 54. *Habana* and *Palmira*, a mixed sample.

113633. No. 55. *Costillo negro*.

113634. No. 56. *Costillo negro*.

113635. No. 57. *Habana* and *Palmira*, a mixed sample.

113636. No. 58. *Habana*, *Costillo negro*, *Carolino*, a mixed sample.

113637 to 113645. *VITIS VINIFERA* L. Vitaceae. European grape.

From France. Plants purchased from the Richters Nurseries, Montpellier. Received January 17, 1936.

113637. *Aramon novi* × 3309.

113638. *Caralicante* × R-57.

113639. *Carignane* × 3309.

113637 to 113645—Continued.

113640. *Chasselas doré* × 3309.

113641. *Mourastel Bouschet* × 3309.

113642. *Muscat de Frontignan* × 3309.

113643. *Syrah (Petite Syrah)* × 3309.

113644. *Sauvignon Blanc* × 3309.

113645. *Saint Emilion* × 3309.

113646. *TRIFOLIUM PRATENSE* L. Fabaceae. Red clover.

From the Soviet Union. Seeds presented by Dr. N. I. Vavilov, Director, Institute of Plant Industry, Leningrad. Received January 21, 1936.

From Riisk District, Transcaspien Republic.

113647 and 113648. *SOLANUM TUBEROSUM* L. Solanaceae. Potato.

From Argentina. Tubers presented by the Ministry of Agriculture, Buenos Aires. Received January 28, 1936.

113647. *Blanca*. 113648. *Chayuenta*.

113649. *ZEPHYRANTHES* sp. Amaryllidaceae.

From El Salvador. Bulbs collected by W. A. Archer, Bureau of Plant Industry. Received January 28, 1936.

No. 3659. January 10, 1936, from San Salvador.

113650 and 113651.

From Italy. Plants and cuttings presented by Dr. Mario Calvino, Stazione Sperimentale di Floricoltura, San Remo. Received January 28, 1936.

113650. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.

Plants of *Pollardi*.

113651. *FICUS CARICA* L. Moraceae.

Cuttings of the *Pissalutto* fig.

113652 to 113657. *CASTANEA MOLLISSIMA* Blume. Fagaceae.

Hairy chestnut.

From China. Scions collected by Peter Liu, in Chekiang Province. Received January 30, 1936.

Nos. 113652 to 113654 were collected near the village of Chuan Tzu in the district of Hsiao Shan.

113652. No. 1. *Hung Pan Lee*, red-skin chestnut. A grafted chestnut, one of the best varieties.

113653. No. 2. *Hei Pan Lee*, black-skin chestnut. A very sweet, grafted chestnut.

113654. No. 3. *Tsao Lee*, grass chestnut. A seedling chestnut that produces very small nuts, but the tree is used as a stock on which to graft the better varieties.

113655. No. 4. *Kuei Hua Lee Tzu*, cassia chestnut. Collected near Chi Lung Shan, Cok Nest Mountains, near Hang Chow. This variety is abundantly planted in this region. The fruits ripen in the latter part of September. When they first begin to ripen the cassia is in bloom; hence the name.

## 113652 to 113657—Continued.

113656. No. 5. *Kuei Hua Lee Tzu*, cassia chestnut; collected in the vicinity of Fa Yun Hung near Hang Chow. The same as No. 4 (P. I. 113655).

113657. No. 7. *Ta Tzu Lee*, large purple chestnut, from near An Men, Tung Yang District. A grafted chestnut that produces very large nuts.

## 113658. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Mexico. Seeds forwarded by the American embassy, Mexico City, at the request of W. A. Archer, Bureau of Plant Industry. Received January 31, 1936.

Seed grown in the Autlán District, State of Jalisco, southwest coast of Mexico.

## 113659. CYCLAMEN sp. Primulaceae.

From the Soviet Union. Bulb presented by E. Stepanov, Soviet Union Plant Quarantine Board, Sukhum, Abkhasia, Transcaucasus. Received May 20, 1935. Numbered in January 1936.

## 113660. CASTANEA CRENATA Sieb. and Zucc. Fagaceae. Japanese chestnut.

From Japan. Scions purchased from the Yokohama Nursery Co., Yokohama. Received January 30, 1936.

*Boft* chestnut.

## 113661 to 113669. CASTANEA spp. Fagaceae. Chestnut.

From China. Seeds collected by Peter Liu, in Chekiang Province. Received January 30, 1936.

113661 and 113662. *CASTANEA HENRYI* (Skan) Rehd. and Wils.

*Ohen Lee*, pearl chestnut.

113661. From Hsiao Feng.

113662. From near Feng Chiao, Chuchi District.

113663 to 113669. *CASTANEA MOLLISSIMA* Blume. Hairy chestnut.

113663. *Fen shut*, large chestnut; a seedling variety common in Chekiang.

113664. *Hei Pan Lee*, black-skin chestnut; collected at Chian Tzu, Hsiao Shan District. A decidedly sweet grafted chestnut; one of the best varieties.

113665. *Hung Pan Lee*, red-skin chestnut; obtained at Chian Tzu Hsiao Shan District. Considered one of the best varieties in Chekiang.

113666. *Tsao Lee*, grass chestnut. From the village of Chian Tzu, Hsiao Shan District. A variety used as a stock.

113667. North China chestnuts; bought in Chin Chi Chan, Tientsin, but shipped in from Po Cheng, southeast of San Tun Ying, Chien An District.

113668. *Ta Hung Lee*, large bright chestnut. Bought in a fruit and nut store in Talan, Shantung.

113669. *Ta Tzu Lee*, the large purple chestnut of An Men, Tung Yang District. This grafted chestnut is the largest in south China.

## 113670 to 113673. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Colombia. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received January 31, 1936.

113670. No. 64. *Pina*. January 6, 1936. From Miranda, Cauca. Received through the courtesy of the Colombian Tobacco Co., Espinal.

Nos. 113671 to 113673 were presented January 17, 1936, by Rafael Gonzales, Director, Estación Agrícola de Palmira, Valle del Cauca.

113671. No. 65. *Pina*.

113672. No. 66. *Nacional No. 2*.

113673. No. 67. *Nacional No. 12*.

## 113674 to 113679. CASTANEA CRENATA Sieb. and Zucc. Fagaceae. Japanese chestnut.

From Japan. Seeds purchased from the Yokohama Nursery Co., Yokohama. Received January 31, 1936.

113674. *Sandoguri*. From Izutayama.

113675. *Sasaguri*. Medium-sized seeds from Fukuoka-ken.

113676. *Sasaguri*. Small seeds from Fukuoka-ken.

113677. *Sasaguri*. From Ohita-ken.

113678. From the Koyasan Temple "Forest."

113679. From Iwate-ken.

## 113680 to 113687.

From Germany. Plants presented by D. W. Mohrenweiser, Baumschule Mohrenweiser, Altenweddingen, Bezirk, Magdeburg. Received February 3, 1936.

113680 to 113685. *CORYLUS* spp. Betula-Filbert.

113680. *Bolhweller Riesen*.

113681. *Braunschweiger Riesen*.

113682. *Fertille*.

113683. *Frühe Frauendorfer*.

113684. *Frühe lange Zellernuss*.

113685. *Minnas Zellernuss*.

113686. *RUBUS* sp. Rosaceae.

*Deutschland* raspberry.

113687. *RUBUS* sp. Rosaceae.

*Preussen* raspberry.

## 113688 to 113690.

From Africa. Seeds presented by R. Andersen, Yapata Estate, Kitale, Kenya Colony. Received January 27, 1936.

Seeds from plants grown on the slopes of Mount Elgon, where the average rainfall is 40 inches.

113688. *TEPHROSIA* sp. Fabaceae.

A leguminous plant which becomes a small tree.

113689. *VIGNA* sp. Fabaceae.

113690. *VIGNA* sp. Fabaceae.

**113691. HALOPHYTON CAMELIDUM DC.**  
Apocynaceae.

From Mexico. Seeds presented by Dr. C. Conzatti, Oaxaca de Juarez, Oaxaca. Received January 28, 1936.

*Herba de la cucaracha.* A dense woody perennial with small opposite, narrowly ovate leaves and terminal, pale-yellow flowers nearly 1 inch across. Native to the mountains of south-central Mexico.

**113692 to 113694. CITRULLUS VULGARIS**  
Schrud. Cucurbitaceae. Watermelon.

From Japan. Seeds presented by the Japan Seed & Plant Co., Tokyo. Received January 31, 1936.

**113692. *Daisen.*** A late melon that keeps well. The dark-green fruits have sweet red flesh and sometimes weigh 25 pounds.

**113693. *Early Sugar.*** A globular melon that weighs up to 11 pounds and is about 20 percent sweeter than ordinary melons.

**113694. *Miyako.*** Resembles Sweet Japanese, but the flesh is lighter in color and firmer.

**113695 to 113698.**

From Manchuria. Seeds purchased from L. Pittsin, Harbin. Received January 30, 1936.

**113695. RUBUS CRATAEGIFOLIUS** Bunge  
Rosaceae. Hawthorn raspberry.  
No. 75. A wild form.

**113696. RUBUS IDAEUS L.** Rosaceae.  
Raspberry.

No. 73. A cultivated Manchurian raspberry.

**113697. RUBUS sp.** Rosaceae.

No. 74. A cultivated Manchurian raspberry which ripens early.

**113698. VITIS AMURENSIS** Rupr. Vitaceae.  
Amur grape.

A wild grape.

**113699 to 113702. OBYZA SATIVA L.** Poaceae. Rice.

From Japan. Seeds presented by K. Nakata, Kyushu Imperial University, Department of Agriculture, Fukuoka. Received January 27, 1936.

**113699. *Aikoku-shinjō,*** No. 7. II.

**113700. *Kameji.*** II.

**113701. *Mudō-aikoku.*** II.

**113702. *Sensho.*** I.

**113703 to 113706.**

From England. Scions presented by W. H. M. Roberson, Cheltenham, Gloucestershire. Received February 10, 1936.

**113703. MALUS SYLVESTRIS** Mill. Malaceae.  
Apple.

*Crimson Bramley.* A large attractive apple, crimson on the sunny side; described as an excellent cooking and storage apple.

**113703 to 113706—Continued.**

**113704. MALUS SYLVESTRIS** Mill. Malaceae.  
Apple.

*Nine-Square.* A medium-sized cooking apple of delicious flavor; color crimson mingled with green.

**113705. PYRUS COMMUNIS L.** Malaceae.  
Pear.

*Chissel.* A dessert pear about the size of a medium-sized plum; color, yellowish green when ripe.

**113706. PYRUS COMMUNIS L.** Malaceae.  
Pear.

*True Chissel.* A little larger than the ordinary *Chissel* and much sweeter; color, yellowish green when ripe.

**113707. PINUS CANARIENSIS C. Smith.**  
Pinaceae. Canary pine.

From the Canary Islands. Seeds presented by Antonio Gonzalez, Director, Estación Experimental de Horticultura y Jardinería de Santa-Cruz de Tenerife y Orotava. Received February 8, 1936.

A pine, native to the Canary Islands, which thrives in warm temperate climates. It is suited to nearly all soils and has a straight trunk and a broad, round-topped head. The wood of this pine, known in the Canary Islands as "tea," is very hard, very difficult to work, but unequalled for duration and building purposes.

For previous introduction see 68300.

**113708 to 113710. SACCHARUM SPONTANEUM L.** Poaceae.

From the Soviet Union. Seeds presented by the Director, Institute of Dry Sub-tropics, Tashkent. Received February 5, 1936.

Wild sugarcane.

**113708. No. 59.** From the vicinity of Parhar village, Upper Painj (Amu-Darya).

**113709. No. 60.** From the vicinity of Parhar village, Upper Painj (Amu-Darya).

**113710. No. 61.** From the vicinity of Chinas on the Syr-Darya River.

**113711. CASTANOPSIS sp.** Fagaceae.

From China. Seeds presented by Peter Liu, Peiping. Received February 11, 1936.

*Hst Lee,* slender chestnut, from Hang Chow. A sweet chestnut.

**113712 to 113722. NICOTIANA TABACUM L.**  
Solanaceae. Common tobacco.

From Honduras. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received February 14, 1936.

Nos. 113712 to 113717 were collected at Danli, Departamento El Paraíso, January 22, 1936, from a grower.

**113712. No. 3660. *Delé.*** A pure strain, originally from Sumatra.

**113713. No. 3661. *Java.*** A pure strain, originally from Sumatra.

**113714. No. 3662. *Copan.*** A pure strain.

**113715. No. 3663. *Habana.*** A pure strain.

**113716. No. 3664. *Salvador.***

## 113712 to 113722—Continued.

113717. No. 3665. *Santa Rosa de Copan*. A pure strain.

113718. No. 3666. *Dell*. A pure strain, originally from Sumatra, but different from No. 3660 [P. I. 113712]. The plant is also much larger.

113719. No. 3667. January 24, 1936. A volunteer tobacco collected at El Rodeo, 40 km. west of Tegucigalpa.

Nos. 113720 to 113722 were collected January 24, 1936, at Siguatepeque, Departamento Comayagua.

113720. No. 3668. Cultivated tobacco.

113721. No. 3669. *Pina*.

113722. No. 3670. A mixed sample of *Pina*, *Cubano*, and other varieties.

## 113723 to 113733.

From South America. Material collected by W. A. Archer, Bureau of Plant Industry. Received in 1934 and 1935. Numbered for convenience in distribution, February 1936.

113723. *ARISTOLOCHIA* sp. Aristolochiaceae.

No. 2889. *Loangoe tetet*. Cuttings collected December 13, 1934, at Carolina, Surinam River, Surinam.

113724. *ARISTOLOCHIA* sp. Aristolochiaceae.

No. 3412. *Tigre guasca*. Cuttings collected May 21, 1935, at Mocoa, Comisario del Putumayo, Colombia.

113725. *BANISTERIOPSIS QUITENSIS* (Ndsu.) Morton. Malpighiaceae.

No. 3361-A. *Yaje*. Roots collected May 2, 1935, at Leticia, Colombia. A woody climber with ovate-lanceolate leaves 2 to 4 inches long and small yellow flowers in terminal clusters. Native to Ecuador.

For previous introduction see 107821.

113726. *DIOSCOREA* sp. Dioscoreaceae.

No. 2460. *Urucach*. Roots of a vine with hooked bulbils on the stems, collected August 8, 1934, near Mazaruni Station, British Guiana.

113727. *ERIOSEMA CRINITUM* (H. B. K.) G. Don. Fabaceae.

No. 2824. Root cuttings collected November 11, 1934, near Sandrij I, Surinam. A low herbaceous perennial with an enlarged storage root, trifoliate leaves, and racemes of small pale-yellow flowers. Native to tropical America.

113728. *ESCOBEDIA SCARRIFOLIA* Ruiz and Pav. Scrophulariaceae.

No. 3383. *Ratz de color*. Cuttings collected May 9, 1935, at Gellina, near Popayan, Colombia. An erect herbaceous perennial with oblong leaves about 4 inches long and large white solitary flowers. Native to western South America, where the roots are used for dyeing.

113729. *CARYOPHYLLUS MALACCENSIS* (L.) Stokes. Myrtaceae.

No. 2856. *Pommarac*. Seeds collected December 5, 1934, at Vredenburg Weg, Surinam. A tree with large, handsome, glossy leaves and masses of flowers an inch or more across, filled with hundreds of beautiful deep-rose or pink stamens; the edible fruit, 2 to 3 inches long, has bright

## 113723 to 113733—Continued.

red skin and dry white flesh like a cranberry. Introduced from the Malay Archipelago by the Javanese.

113730. *LONGHOCARPUS SERICEUS* (Poir.) H. B. K. Fabaceae.

No. 3354. *Garrapato*. April 28, 1935. Root cuttings of a large tree collected at Tocsim, Finca Chucunday, Departamento Cundinamarca, Colombia. The name refers to the peculiar galls always present on the leaves.

113731. *LONGHOCARPUS NICOU* (Aubl.) DC. Fabaceae.

No. 3408. *Barbasco trueno*. Cuttings collected May 21, 1935, at Mocoa, Comisario del Putumayo, Colombia.

113732. *PHYLLANTHUS PISCATORUM* H. B. K. Euphorbiaceae.

No. 3416. *Tinta barbasco*. Cuttings of a shrub 10 feet high, collected at Mocoa, Comisario del Putumayo, May 22, 1935.

113733. *SERJANIA PAUCIDENTATA* DC. Sapindaceae.

No. 2887. Root cuttings collected December 13, 1934, at Carolina, Surinam River, Surinam.

For previous introduction see 106495.

113734. *AMYGDALUS BUCARICA* Korsh. Amygdalaceae.

From the Soviet Union. Seeds presented by Dr. Boris Fedtschenko, Botanic Institute of the Academy of Sciences, Leningrad. Received February 10, 1936.

A wild almond, native to the hot dry regions of Turkistan, with fruits about 1 inch long.

For previous introduction see 106838.

113735 to 113738.

From the Soviet Union. Seeds presented by the Institute of Plant Industry, Leningrad. Received February 10, 1936.

Seeds collected by a Mr. Dessiatkin in the Altai Mountain region, Turkistan.

113735. *ALLIUM FISTULOSUM* L. Liliaceae. Welsh onion.

A very hardy wild strain; the bulbs and young leaves are edible.

For previous introduction see 113301.

113736. *HIPPOPHAE RHAMNOIDES* L. Elaeagnaceae. Common sea-buckthorn.

A large-fruited variety with high sugar content.

For previous introduction see 109295.

113737. *RIBES HISPIDULUM* (Jancz.) Pojarkova. Grossulariaceae.

A wild red currant, native to Turkistan.

113738. *RIBES PETRAEUM* Wulf. Grossulariaceae.

A large-fruited, frost-resistant red currant.

113739 to 113748. *ZEA MAYS* L. Poaceae. Corn.

From Australia. Seeds presented by the Department of Agriculture and Stock, Brisbane, Queensland. Received February 14, 1936.

113739 to 113748—Continued.

113739. Line No. 2. 113744. Line No. 46.  
 113740. Line No. 12. 113745. Line No. 61.  
 113741. Line No. 16. 113746. Line No. 64.  
 113742. Line No. 21. 113747. Line No. 66.  
 113743. Line No. 30. 113748. Line No. 68.

113749. *ERLANGEA MARGINATA* (O. and H.) S. Moore. Asteraceae.

From Africa. Seeds presented by J. B. H. Lejeune, Director, Government Experimental Station, Kisozi, Ruanda-Urundi Territory, Belgian Congo. Received January 10, 1934. Numbered in January 1936.

An erect perennial, native to tropical Africa, with dark-green, narrow-ovate leaves, up to 3 inches long, silky white beneath. The small heads of pink flowers in dense terminal clusters and on short pedicels in the axils of the leaves, have a long blooming season.

113750. *BOUSSINGAULTIA* sp. Basellaceae.

From Venezuela. Bulbils collected by W. A. Archer, Bureau of Plant Industry. Received February 16, 1935. Numbered in February 1936.

No. 2988. Collected near Caracas, January 27, 1935. A vine whose aerial tubers contain a soapy substance used by the natives to wash clothing.

113751 to 113756.

From Honduras. Seeds presented by the Research Department of the Tela Railroad Co., Tela. Received February 8, 1936.

113751. *ARECA ALICAE* F. Muell. Phoenicaceae. Palm.

An Australian cluster palm with graceful shining-green pinnate leaves 3 to 6 feet long. The handsome oblong scarlet fruits, three-fourths of an inch long, make this one of the most attractive of all doorway palms.

For previous introduction see 104680.

113752. *GUILIELMA UTILIS* Oerst. Phoenicaceae. Pejibaye.

A pinnate-leaved palm, native to tropical regions of the Western Hemisphere. Its straight, slender stem, about 6 inches in diameter and 60 feet high, is armed from the ground upward with stiff, very sharp black spines about 2 inches long. The racemes, 18 to 24 inches long, of small sessile, yellow-white flowers, are produced from the trunk of the palm immediately below or among the lower leaves and are protected by erect spathe. The raceme of mature fruit weighs over 25 pounds, and there are often five or six such racemes produced in a single crop. The individual fruits are conical or ovoid, vary from 1 to 2 inches in length, and have dry mealy flesh of a pale-orange or yellow color. It is one of the important food plants of the Tropics.

For previous introduction see 103739.

113753. *LICUALA* sp. Phoenicaceae. Palm.

Received as *Licuala peltata*, but the seeds do not agree with that species. The *Licualas* are showy, dwarf, fan-leaved palms.

113751 to 113756—Continued.

113754. *OENOCARPUS* sp. Phoenicaceae. Palm.

A tall, very handsome ornamental palm with a terminal crown of pinnatisect leaves.

113755. *THRINAX* sp. Phoenicaceae. Palm. An ornamental fan-leaved palm.

113756. *TILMIA CARYOTAEFOLIA* (H. B. K.) O. F. Cook (*Martinezia caryotaefolia* H. B. K.).

A slender, spiny-trunked, pinnate-leaved palm with bright orange-red fruits borne in drooping racemes. Native to Colombia.

For previous introduction see 103172.

113757 and 113758. *ABACHIS HYPOGAEA* L. Fabaceae. Peanut.

From Uruguay. Seeds presented by the Facultad de Agronomia Universidad de la Republica, Montevideo. Received February 15, 1936.

113757. A small white Spanish type with short cylindrical pods; a promising variety.

113758. A Valencia type with the usual red kernels.

113759 to 113778.

From Australia. Seeds presented by F. J. Rae, Director, Melbourne Botanic Gardens and National Herbarium, South Yarra, Victoria. Received February 15, 1936.

A collection of native Australian plants.

113759. *CALLISTEMON RIGIDUS* R. Br. Myrtaceae.

A tall shrub, sometimes 30 feet high, native to New South Wales. The narrowly linear leaves are 2 to 5 inches long, and the scarlet flowers, with dark-red stamens an inch long, are borne in large dense spikes.

For previous introduction see 101349.

113760. *CASSIA EREMOPHILA* A. Cunn. Caesalpinaceae.

A handsome shrub 5 feet high, with leaves made up of two pairs of narrow leaflets and yellow flowers. The leaves and pods are said to be eaten by stock.

For previous introduction see 90851.

113761. *CHORIZEMA DIVERSIFOLIUM* A. DC. Fabaceae.

A tender shrub about 3 feet high, with weak, slender, often twining branches, ovate to narrow lanceolate leaves about 2 inches long, and many showy orange flowers in loose racemes.

113762. *DODONAEA TRIQUETRA* Wendl. Sapindaceae.

A tall erect glabrous shrub with oval-elliptic leaves 2 to 4 inches long and very smooth shining brown seeds in medium-sized capsules.

For previous introduction see 50400.

113763. *DRACOPHYLLUM SECUNDUM* R. Br. Epacridaceae.

A shrub resembling a monocot with the branching stems covered by the sheathing bases of the linear-striated leaves 2 to 4

## 113759 to 113778—Continued.

inches long. The branches are terminated by long compound, one-sided racemes of pure white tubular flowers.

For previous introduction see 76937.

113764. *ENTELEA ARBORESCENS* R. Br. Tilliaceae.

A shrub or small tree up to 20 feet high, with the growing parts covered with soft stellate hairs. The alternate cordate leaves, nearly a foot across, are on petioles 8 inches long; the white flowers, an inch in diameter, are in erect cymes, and the globose pods are covered with long rigid bristles.

For previous introduction see 103006.

113765. *EUCALYPTUS MICROTHECA* F. Muell. Myrtaceae.

A tree up to 80 feet high, found in arid as well as tropical regions of Australia. It is said to be resistant to extreme heat and drought and to also endure a temperature as low as 18° F.

For previous introduction see 75638.

113766. *GEIJERA PARVIFLORA* Lindl. Rutaceae.

*Wilga*. A tall evergreen shrub or small tree, native to the interior of New South Wales, where it reaches a height of about 30 feet. It has slender pendulous branches, narrow leaves 3 to 6 inches long, and, when well developed, has a highly ornamental appearance with something of the aspect of a weeping willow. It has remarkable drought-enduring qualities, and the leaves are often fed to sheep, which are very fond of them.

For previous introduction see 90853.

113767. *HAKEA VITTATA* R. Br. Proteaceae.

An evergreen shrub or small tree up to 20 feet high, with needlelike leaves up to 3 inches long. Native to South Australia.

113768. *KENNEDIA COMPTONIANA* (Andr.) Link. Fabaceae.

A vine with single lanceolate leaflets and terminal and axillary racemes of pea-shaped flowers, ranging from white through rose to purple.

For previous introduction see 98164.

113769. *KENNEDIA NIGRICANS* Lindl. Fabaceae.

A large twining vine from Western Australia. The broad ovate leaflets, 2 to 3 inches long, are often only one to each leaf. The deep violet-purple flowers are about 1 inch in length and are borne in racemes shorter than the leaves.

For previous introduction see 45791.

113770. *KUNZEA PEDUNCULARIS* F. Muell. Myrtaceae.

A heathlike evergreen shrub 8 to 15 feet high, allied to the callistemons. The small white flowers, with conspicuous stamens, are borne in the upper axils as short corymbs or long leafy racemes. Native to southeastern Australia.

113771. *LASIOPE TALUM DASYPHYLLUM* Sieber. Sterculiaceae.

A tall shrub with rusty tomentose branches, coriaceous cordate to lanceolate leaves 4 inches long, and dense axillary clusters of small brownish flowers.

For previous introduction see 76939.

## 113759 to 113778—Continued.

113772. *LEPTOSPERMUM SCOPARIUM* Forst. Myrtaceae. *Manuka*.

Variety *grandiflorum roseum*. A form with large pink flowers.

113773. *LIBERTIA IXIODES* (Forst. f.) Spreng. Iridaceae.

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

For previous introduction see 81490.

113774. *OLEARIA PANNOSA* Hook. Astera-ceae.

An evergreen shrub up to 4 feet high, with broadly ovate-cordate to oblong leaves about 3 inches long and large white terminal or axillary flower heads. Native to South Australia.

113775. *ORTHROSANTHUS MULTIFLORUS* Sweet. Iridaceae.

An irislike plant with a short perennial rhizome and flat, grasslike radical leaves up to 2 feet in length. The blue flowers are in a several-flowered oblong spike borne on a stem 1 to 2 feet high.

For previous introduction see 67087.

113776. *PULTENAEA DAPHNOIDES* Wendl. Fabaceae.

An erect evergreen shrub about 6 feet high, with cuneate-oblong leaves less than 2 inches long and small yellow flowers in large dense terminal heads. Native to southern Australia.

113777. *SIDEROSYLON AUSTRALE* (R. Br.) Benth. and Hook. Sapotaceae.

An evergreen tree, eventually about 80 feet high, with elliptic-oblong leaves 3 to 4 inches long. The globose purplish fruits, about 2 inches in diameter, are edible, although of coarse texture and insipid flavor. The dark-colored timber is used for cabinet work.

113778. *TEMPLETONIA RETUSA* (Vent.) R. Br. Fabaceae. *Melbourne coralbush*.

A tall evergreen shrub 4 to 8 feet high, with angular sulcate glaucous branchlets, simple leathery broadly ovate leaves about 1 inch in length, and axillary red or white flowers 1 inch long, solitary or in clusters of two or three.

## 113779 and 113780.

From the Netherlands. Plants presented by F. J. Grootendorst & Sons, Boskoop, through the Skylands Nursery, Sterlington, N. Y. Received February 15, 1936.

113779. *ABIES LASIOCARPA ARIZONICA* (Merriam) Lemm. Pinaceae.

A variety with yellowish-white, corky bark and smaller cones. Native to Arizona and New Mexico.

113780. *ABIES BALSAMEA* (L.) Mill. Pinaceae.

*Hudsonia*. A dwarf form.

113781. *PHOENIX RECLINATA* Jacq. Phoenicaceae. *Senegal date palm*.

From Sierra Leone, Africa. Seeds presented by W. T. Swingle, Bureau of Plant Industry. Received February 18, 1936.

113782 to 113789.

From India. Seeds presented by the forest botanist, Forest Research Institute, Dehra Dun, through F. J. Crider, Soil Conservation Service, United States Department of Agriculture. Received February 14, 1936.

113782. *ACER STERCULIACEUM* Wall. Aceraceae. Maple.

A handsome tree with gray bark, native to the northwestern parts of the Himalayas at altitudes of 7,000 to 9,000 feet. It sometimes reaches a height of 80 feet. The thin shining-green leaves are occasionally used for fodder, and the white, closely grained wood is beautifully mottled.

For previous introduction see 56399.

113783. *BERBERIS CHITRIA* Lindl. Berberidaceae. Barberry.

A spiny half-evergreen shrub, 6 feet or less high, with oblong leaves 1 to 3 inches long, deep yellow or reddish flowers in long stemmed panicles, and ovoid purple berries. Native to the Himalayas.

For previous introduction see 92491.

113784. *BERBERIS LYCIUM* Royle. Berberidaceae. Barberry.

A half-evergreen shrub 10 feet high, with narrow bright-green leaves and pale-yellow flowers followed by ovoid violet berries. Native to northern India.

For previous introduction see 81147.

113785. *CARPINUS VIMINEA* Lindl. Betulaceae.

A rather small tree with slender pendulous branches and ovate, caudate, doubly serrate leaves 3 to 4 inches long. Native to the temperate Himalayas at altitudes of 5,000 to 7,000 feet.

113786. *ERIANTHUS RUFIPILUS* (Steud.) Griseb. Poaceae. Plumegrass.

A perennial grass from the temperate Himalayas, where it grows at altitudes of 5,000 to 7,000 feet.

For previous introduction see 93210.

113787. *LILIUM GIGANTEUM* Wall. Liliaceae. Giant lily.

113788. *VIBURNUM COTINIFOLIUM* D. Don. Caprifoliaceae.

A shrub 6 to 12 feet high, closely allied to *Viburnum lantana*, and native to the Himalayas from Bhutan to Baluchistan. The young branchlets, the under surface of the leaves, and the flower stalks are clothed with a dense gray down. The white, pink-tinged, broadly funnel-shaped flowers are produced in rounded cymes, 2 to 3 inches across. The red, ultimately black, fruits are up to one-half inch long.

For previous introduction, see 53744.

113789. *VITIS TRIFOLIA* L. Vitaceae.

A slender herbaceous tuberous-rooted vine, covered throughout when young with a short dense pubescence. The long-stalked, trifoliate leaves are 2 to 6 inches long, and the small black fruits are two to four seeded. Native to the tropical Himalayas and the hotter parts of India.

113790. *TRIPTYEGIUM* sp. Celastraceae.

From China. Cuttings collected by Peter Liu, Peiping. Received February 25, 1936.

*Let Kung Teng*. From Ehrh Shih Pa Tu, Yi Wu District, Chekiang Province.

113791 to 113795. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.

From Palestine. Trees presented by A. Grosovsky, Chief Horticultural Officer, Department of Agriculture and Forests, Jerusalem. Received February 26, 1936.

113791. *Alawi*.

113792. *Baladi*.

113793. *Hamawi*.

113794. *Karassia*.

113795. *Klabi*, seedling.

113796 to 113810.

From the Soviet Union. Plants presented by the Nikita Botanic Garden, Yalta, Crimea, through the Institute of Plant Industry, Leningrad. Received February 25, 1936.

113796 to 113806. *AMYGDALUS COMMUNIS* L. Amygdalaceae. Almond.

113796. Crimée No. 337.

113797. Crimée No. 1590.

113798. Crimée No. 341.

113799. Crimée No. 2678.

113800. Crimée No. 2661.

113801. Crimée No. 335.

113802. Crimée No. 2669.

113803. Crimée No. 339.

113804. Crimée No. 396.

113805. Crimée No. 2674.

113806. Crimée No. 2664.

113807. Crimée No. 348.

113808. Crimée No. 2678.

113809 and 113810. *PRUNUS DOMESTICA* L. Amygdalaceae. Plum.

113809. Crimée No. 2669-A. From Alma Hara.

113810. Crimée No. 2669-B. From Alma Hara.

113811 to 113821. *RUBUS* spp. Rosaceae.

From China. Seeds presented by the Director, Botanic Garden, Dr. Sun Yat-Sen's Memorial Park, Nanking. Received February 21, 1936.

113811. *RUBUS AMPELINUS* Focke.

A prostrate shrub similar to *Rubus lambertianus*, with slender stems about 3 feet long, broad-ovate leaves about 2 inches long, and terminal clusters of few small flowers. Native to central China.

113812. *RUBUS BUEGERI* Miq.

A creeping rubus, common in the region of Nagasaki, Japan. The red fruits are of good flavor but not large.

For previous introduction see 48739.

113813. *RUBUS CHROOSEPALUS* Focke.

A Chinese bramble with glabrous cordate leaves, white tomentose beneath, and small purplish flowers followed by black fruits. Native to Hupeh Province.

For previous introduction see 53536.

113814. *RUBUS COREANUS* Miq. Korean raspberry.

A deciduous shrub 8 to 10 feet high, native to China and Chosen, with erect

## 113811 to 113821—Continued.

or arching, stout biennial stems. The pinnate leaves, 6 to 10 inches long, are usually composed of seven ovate, dark lustrous-green, coarsely toothed leaflets. The fruit, varying in color from red to nearly black, is edible but small and of poor flavor.

For previous introduction see 104649.

113815. *RUBUS ICHANGENSIS* Hemsl. and Kuntze.

A straggling plant with white flowers, found in thickets between 2,000 and 4,000 feet altitude in central and western China. The small red fruits are of good flavor.

For previous introduction see 26272.

113816. *RUBUS LAMBERTIANUS* Seringe.

A bramble with long slender square evergreen stems, simple or three-lobed to five-lobed leaves, bright green above and lighter beneath, terminal clusters of small white flowers, and red or yellow fruits. Native to China.

For previous introduction see 91831.

113817. *RUBUS MESOGAEUS* Focke.

A bramble native to central China, with slender climbing stems 12 to 15 feet long, rather small flowers, and small globose berries.

For previous introduction see 50299.

113818. *RUBUS OCCIDENTALIS* L.  
Common blackcap.

For previous introduction see 92795.

113819. *RUBUS PARVIFOLIUS* L.

A hardy raspberry with edible red fruits, which are somewhat acid, not particularly juicy, but of good flavor. Native to China and Japan.

For previous introduction see 93977.

113820. *RUBUS SETCHUENENSIS* Bureau and Franch.

A deciduous straggling shrub about 2 feet high, with deeply-lobed, mallowlike leaves, and many small purple flowers in dense panicles followed by black fruits of good flavor. Native to western China.

113821. *RUBUS TEPHRODES* Hance.

A straggling shrub with branches about 15 feet long, terminal clusters of small pink flowers, and rather large black fruits. Closely related to *Rubus chroosepalus*. Native to Kiangsi Province, China.

113822 to 113835. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

From Canada. Scions presented by W. R. Leslie, Superintendent, Morden, Manitoba, Experimental Farm. Received February 27, 1936.

113822. *Angus*.

113823. *Blkhorn*.

113824. *Godfrey*.

113825. *Gretna*.

113826. *Manitoba* (Duchess seedling.)

113827. *Manitoba Spy* (Duchess seedling.)

113828. *Manitof* (Tetofsky seedling.)

113829. *Maniet* (Tetofsky seedling.)

113830. *Manton*.

## 113832 to 113835—Continued.

113831. *Ostem* (M-316).

113832. *Osman*.

113833. *Patria*o.

113834. *Rosilda*.

113835. *Trail*.

113836. *EUCHLAENA MEXICANA* Schrad. Poaceae. Teosinte.

From Guatemala. Seeds presented by Manuel Velasquez, Departamento de Huehuetenango. Received February 21, 1936.

## 113837 to 113844.

From Africa. Seeds purchased from the Mount Elgon Nurseries, Kitale, Kenya Colony. Received January 31, 1936.

Seeds of plants indigenous to eastern Africa.

113837. *BAUHINIA FASSOGENSIS* Kotschy. Caesalpiniaceae.

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

113838. *CLEMATIS INCISO-DENTATA* A. Rich. Ranunculaceae.

A woody climber, with pinnatisect leaves and many large white flowers in long axillary panicles.

113839. *CROTALARIA LACHNOCARPOIDES* Engl. Fabaceae.

A shrubby plant up to 4 feet high, with lanceolate or linear-oblong leaflets 1 to 2 inches long and small, compact racemes of orange-colored flowers. It is similar to *Crotalaria lachnocarpa*, but has smaller flowers.

113840 to 113842. *DELPHINIUM* spp. Ranunculaceae. Larkspur.

113840. *DELPHINIUM CANDIDUM* Hemsl.

A dwarf perennial delphinium, with palmately five-lobed leaves up to 5 inches across and large white, sweet-scented flowers.

113841. *DELPHINIUM MACROCENTRUM* Oliver.

A perennial delphinium up to 6 feet high bearing numerous blue-green to deep-blue flowers.

113842. *DELPHINIUM* sp.

From Ethiopia.

113843. *GLORIOSA VIRESCENS* Lindl. Melanthiaceae. Glorylily.

A vinelike perennial which supports itself by the tendril-bearing tips of the oblong-lanceolate leaves 3 to 6 inches long. The yellow and red flowers, 1 to 3 inches across and borne in a lax terminal corymb, are reflexed and slightly undulate.

For previous introduction see 102790.

113844. *PENTAS LANCEOLATA* (Forsk.) Schum. Rubiaceae.

An erect evergreen shrub 2 to 3 feet high, with linear-lanceolate, acuminate leaves 2 to 4 inches long and pink flowers over 1 inch long in dense terminal cymes. Native to Mount Killimanjaro, Kenya, at 5,000 feet altitude.

**113845. PASSIFLORA LIGULARIS JUSS.**  
Passifloraceae. Sweet granadilla.

From Honduras. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received February 26, 1936.

For previous introduction see 110602.

**113846. TRIFOLIUM PRATENSE L.** Fabaceae. Red clover.

From the Soviet Union. Seeds purchased from the Kungur Interregional Control Station, Ural Province, through the Institute of Plant Industry, Leningrad. Received February 26, 1936.

**113847. NEOMAMMILLARIA ELONGATA (DC.) Britt. and Rose.** Cactaceae.

From Mexico. Seeds collected by Paul Russell and Max Souviron, Bureau of Plant Industry. Received September 20, 1930. Numbered in February 1936.

No. 13. From the Botanic Garden, Mexico City, September 11, 1930; originally from Hidalgo. An erect cactus 6 to 7 inches high and 1 to 2 inches in diameter, with short tubercles having 16 to 18 yellow radial spines. The small flowers are white or yellowish. Native to central Mexico.

For previous introduction see 81178.

**113848 to 113854. TRITICUM AESTIVUM L.** Poaceae. Common wheat.

From Australia. Seeds presented by H. Wenholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received February 14, 1936.

A collection of rust-resistant varieties of wheat.

**113848. Argentine H-31.** (C-8681.) Originally from Argentina.

**113849. Minor.** (C-9142.)

**113850. Portugal.** (C-8995.) Originally from Portugal.

**113851. Préparateur Etienne.** (C-6141.) Originally from France.

**113852. Puror.** (C-9141.)

**113853. Saisette.** (C-6149.) Originally from France.

**113854. Varonne.** (C-6146.) Originally from France.

**113855 to 113865. RUBUS spp.** Rosaceae.

From the Soviet Union. Seeds presented by N. I. Sharapov, Department of New Cultures and Introduction, Institute of Plant Industry, Leningrad. Received February 26, 1936.

A collection of Rubus from the Maikop section.

**113855. RUBUS SANCTUS Schreb.**

No. 104. A very variable species related to *Rubus rhamnifolius* and *R. gratus*, with strong arched shoots, leaves composed of five leaflets, and elongate racemes of white or pale-rose colored flowers.

For previous introduction see 42787.

**113856 to 113859. RUBUS CAESIUS L.** Dewberry.

A deciduous shrub with slender, creeping, prickly stems. The white flowers are

**113855 to 113865—Continued.**

in small clusters, and the fruit, composed of a few large carpels, is covered with a blue-white bloom when ripe. Common throughout Europe and northern Asia.

For previous introduction see 92293.

**113856. No. 135.** **113858. No. 192.**

**113857. No. 155.** **113859. No. 1068.**

**113860. RUBUS CAESIUS TURKESTANICUS Regel.**

No. 191. A variety with narrow-petaled flowers and shining black fruits. Native to Turkistan.

**113861. RUBUS CAUCASICUS Focke.**

No. 1067. An evergreen bramble with small white flowers and small black fruits. It is closely related to *Rubus platyphyllus*. Native to the Caucasus region.

**113862. RUBUS TOMENTOSUS Borkh.**

No. 1069. A low shrub with thick leaves and small black fruits. Native to central Europe.

For previous introduction see 30185.

**113863. RUBUS sp.**

No. 134.

**113864. RUBUS sp.**

No. 100.

**113865. RUBUS LINKIANUS Ser.**

No. 102. A cultivated species of unknown origin, with more or less double white flowers 1 inch across.

**113866 to 113868. CITRUS spp.** Rutaceae.

From Costa Rica. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received February 27, 1936.

**113866. CITRUS AURANTIFOLIA (Christm.) Swingle.** Lime.

No. 3692. February 22, 1936. From the market at San José. An extremely good variety.

**113867. CITRUS GRANDIS (L.) Osbeck.** Grapefruit.

No. 3691. *Toranja*. From San José, February 22, 1936. The thick peel of this fruit is used for crystallizing; the seedlings are used as stock for other types of citrus.

**113868. CITRUS LIMONIA Osbeck.** Lemon.

No. 3693. From San José, February 22, 1936. A sweet variety, used in Costa Rica for beverages.

**113869 to 113876.**

From the Soviet Union. Seeds presented by G. N. Shlykov, head of the Department of New Cultures and Introduction, Institute of Plant Industry, Leningrad. Received February 28, 1936.

From the Botanic Garden, University of Middle Asia, Tashkent.

**113869. ALLIUM AFLATUNENSE B. Fedtsch.** Liliaceae.

A large allium with broad-oblong leaves and umbels of purple flowers on a scape up to 4 feet high. Native to Turkistan.

For previous introduction see 110686.

## 113869 to 113876—Continued.

113870. *INCARVILLEA OLGAE* Regel. *Bigoniaceae*.

An erect biennial 3 to 4 feet high, with opposite pinnate leaves, the leaflets linear, oblong and acute. The bell-shaped purple flowers are about an inch long. Native to Turkistan.

For previous introduction see 107550.

113871 to 113873. *IRIS* spp. *Iridaceae*.

113871. *IRIS KOLPAKOWSKIANA* Regel.

An iris of the *Xiphium* group with 4 to 6 narrow linear-subterete leaves and a short, one-flowered scape. The outer perianth segments are deep violet purple with a beardless, bright-yellow keel, and the inner ones are pale lilac. Native to the mountains of Turkistan.

113872. *IRIS NARBUTI* O. Fedtsch.

A dwarf iris of the *Juno* section with lanceolate curved leaves and one to three showy flowers with yellow falls and violet standards. Native to Turkistan.

113873. *IRIS SONGARICA* Schrenk.

A densely tufted *Apogon* iris about a foot high, with narrow-linear, strongly ribbed leaves up to a foot in length and two to three lilac-colored flowers over an inch long. Native to central Asia.

For previous introduction see 110982.

113874. *IXIOLIRION TATARICUM* (Pall.) Herbert. *Amaryllidaceae*.

For previous introduction and description see 113519.

113875. *TULIPA KOROLKOVII* Regel. *Liliaceae*.

A low crimson-flowered tulip from Turkistan, 4 to 6 inches high, with narrowly lanceolate leaves exceeding the flowers.

For previous introduction see 109799.

113876. *TULIPA TURKESANICA* Regel. *Liliaceae*.

A tulip with two or rarely three linear-lanceolate leaves and yellow flowers, violet within, on a scape 3 to 12 inches high. Native to Turkistan.

For previous introduction see 107592.

113877. *DIANTHUS* sp. *Silenaceae*.

From Costa Rica. Plants collected by W. A. Archer, Bureau of Plant Industry. Received March 4, 1936.

No. 3708. *Clavel bla.* From San Isidro de Coronado, February 26, 1936. A plant with lavender-colored flowers; common in the State of Puebla, where it has been cultivated for generations.

113878 to 113888.

From Poland. Seeds presented by the Kornik Gardens and Arboretum, Kornik. Received February 24, 1936.

113878 to 113881. *ALLIUM* spp. *Liliaceae*.

113878. *ALLIUM CANADENSE* L.  
Meadow garlic.

For previous introduction see 110766.

## 113878 to 113888—Continued.

113879. *ALLIUM KARATAVIENSE* Regel.  
Onion.

An onion native to Turkistan, with very ornamental broad leaves of a striking blue-green color and dense umbels of dull-pink flowers.

For previous introduction see 82013.

113880. *ALLIUM MONTANUM* F. W. Schmidt.

A rather variable species distributed from eastern Europe through Siberia in dry rocky places. It is usually a low plant with narrow leaves and a hemispherical head of blue-purple flowers.

For previous introduction see 58876.

113881. *ALLIUM SATIVUM* L. Garlic.

113882 to 113888. *FESTUCA* spp. *Poaceae*.  
Fescue.

113882 and 113883. *FESTUCA OVINA* L.  
Sheep fescue.

113884. *FESTUCA OVINA ALPINA* (Sut.) Wimm. and Grab.

A variety with stems about 4 inches high. Native to Europe.

113885. *FESTUCA OVINA GLAUCA* (Lam.) Koch.

For previous introduction see 111974.

113886. *FESTUCA OVINA VALLESICA* (Schleich.) Link.

For previous introduction see 111976.

113887. *FESTUCA RUBRA* L. Red fescue.

113888. *FESTUCA RUBRA HETEROPHYLLA* (Lam.) Mutel.

113889 to 113892. *SOLANUM TUBEROSUM* L. *Solanaceae*.  
Potato.

From Scotland. Tubers presented by Dr. George Cockerhan, Scottish Society for Research in Plant Breeding, Craigs House, Corstorphine. Received February 26, 1936.

113889. *Oardinal*.

113890. *Chance*.

113891. *Kepplestone Kidney*.

113892. *Shamrock*.

113893 to 113895. *COIX LACRYMA-JOBI* L. *Poaceae*.  
Jobs-tears.

From the Philippine Islands. Seeds presented by the Economic Garden, Los Baños, Laguna. Received February 27, 1936.

113893. *Lukfao*.

113894. A glutinous variety of adlay.

113895. A native variety of adlay.

113896. *ARISTOLOCHIA RINGENS* Vahl. *Aristolochiaceae*.

From Florida. Seeds presented by W. Paul Phillips, Orlando. Received February 29, 1936.

A tall slender twining glabrous plant with broadly orbicular-reniform leaves, dull green above and glaucous below. The flowers are 7 to 10 inches long, pale green, marbled and reticulated with black purple. Native to tropical America.

For previous introduction see 97533.

**113897. PHLEUM PRATENSE L. Poaceae. Timothy.**

From Scotland. Seeds presented by William Robb, Director of Research, Scottish Society for Research in Plant Breeding, Craigs House, Corstorphine. Received March 3, 1936.

*Diploid timothy.*

**113898 to 113901. MALUS SYLVESTRIS Mill. Malaceae. Apple.**

From the Union of South Africa. Plants purchased from H. E. V. Pickstone & Son, Groot Drakenstein, Cape of Good Hope. Received July 30, 1934. Numbered in March 1936.

113898. *Ohinemuri.*

113899. *Rokewood.*

113900. *Wemmer's Hoek.*

113901. *William Anderson.*

**113902. VITIS VINIFERA L. Vitaceae. European grape.**

From Japan. Cuttings presented by Rev. A. P. Hassell, the Japan Mission of the Presbyterian Church of the United States, Tokushima. Received March 7, 1936.

*Okayama grape (Campbell Early).*

**113903. BRUNFELSIA AMERICANA L. Solanaceae. Franciscan nightshade.**

From Trinidad, British West Indies. Seeds presented by the curator, Royal Botanic Gardens, Port-of-Spain. Received February 28, 1936.

A tropical American plant of dwarf habit, with slender branches and elliptic-ovate, glabrous leaves. The pure white, solitary flowers, shading to pure-yellow with age, are in axillary or terminal panicles and are very fragrant.

For previous introduction see 97903.

**113904. CROTALARIA sp. Fabaceae.**

From Africa. Seeds presented by R. Anderson, Yapata Estate, Kitale, Kenya Colony. Received February 29, 1936.

**113905 to 113910.**

From Norway. Seeds presented by the Director, Botanic Garden, Oslo. Received March 3, 1936.

**113905. ALLIUM MULTIBULBOSUM Jacq. Liliaceae. Onion.**

An onion closely resembling *Allium nigrum*, but differing in the numerous spherical bulbets, its broader and shorter leaves, and in certain floral characters. The flowers, entirely white or with a reddish central stripe in the petals, are in a dense globular cluster. Native to meadows in central Europe.

For previous introduction see 95357.

**113906 to 113908. FESTUCA spp. Poaceae. Fescue.**

**113906. FESTUCA OVINA L. Sheep fescue.**

**113907. FESTUCA PANCICIANA (Hack.) Richt.**

A perennial grass, native to Europe.

**113905 to 113910—Continued.**

**113908. FESTUCA SPECTABILIS Jan.**

A grass native to the mountainous regions of central Europe.

For previous introduction see 25211.

**113909. IRIS POLAKII Stapf. Iridaceae.**

An Iranian iris of the *Pumila* group with narrow linear leaves and a one-flowered stem up to 4 inches high, with a large violet-veined lilac flower.

**113910. IRIS TRIDENTATA Pursh. Iridaceae.**

A slender Apogon iris with rather firm, narrow-linear leaves over a foot long and a one- to three-flowered stalk about 2 feet high. The fragrant flowers are bright lilac. Native to the southeastern United States.

**113911 and 113912.**

From the Soviet Union. Seeds presented by the Director, Government Botanical Garden, Nikita, Yalta, Crimea. Received March 4, 1936.

**113911. IRIS ENSATA Thunb. Iridaceae. Russian iris.**

For previous introduction see 110131.

**113912. LALLEMANTIA IBERICA (Bieb.) Fisch. and Mey. Menthaceae.**

A blue-flowered herbaceous perennial, native to semiarid regions in Asia Minor and Syria, whose seeds yield an oil said to be a high-grade drying oil.

For previous introduction see 99344.

**113913 to 113941. TRITICUM AESTIVUM L. Poaceae. Common wheat.**

From Australia. Seeds presented by the plant breeder at the Cowra Experiment Farm, through H. Wenzholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received March 3, 1936.

**113913. Apollo. C. 4661.**

**113914. Carrabin. C. 4991.**

**113915. Caliph. C. 2708.**

**113916. Currawa. C. 9220.**

**113917. Dart's Imperial. C. 339.**

**113918. Flora. C. 3995.**

**113919. Florence. C. 8808.**

**113920. Florida. C. 3998.**

**113921. Florida × Warren. C. 8977.**

**113922. Ghurka. C. 9234.**

**113923. Heine's Kolben. C. 5137.**

**113924. Jindera. C. 3994.**

**113925. Kenya × Baringa. 668-5-E<sub>1</sub>-2-C<sub>4</sub>.**

**113926. Kenya × Florence. G<sub>1</sub>-1-E<sub>1</sub>-1-C<sub>4</sub>.**

**113927. Kenya × Gular. G-22-1-N<sub>2</sub>-C<sub>4</sub>.**

**113928. Kenya × Gular. G<sub>22</sub>-2-N<sub>1</sub>-C<sub>3</sub>.**

**113929. Kenya × Gular. C-34-2-E<sub>2</sub>-1-C<sub>4</sub>.**

**113930. Kenya × Gular. G-22-2-N<sub>2</sub>-C<sub>4</sub>.**

**113931. Kenya × Gular. G-41-4-E<sub>1</sub>-2-C<sub>3</sub>.**

**113932. Kenya × Gular. G-6-2-E<sub>1</sub>-2-C<sub>4</sub>.**

**113933. Klein 33 M. A. C. 9656.**

## 113913 to 113941—Continued.

113934. *Mallan*. C. 4889.  
 113935. *Morley*. C. 5211.  
 113936. (*Nabawa* × *Federation* × *Martin* × *Sonora* × *Sonora*)<sup>2</sup>.  
 113937. *Penny Selection*. C. 2728.  
 113938. *Tuela*. C. 4199.  
 113939. *Warden*. C. 3230.  
 113940. *Warden* × *Forge*. C. 5556.  
 113941. *Wardstr* × *Major*. C. 6182.

## 113942 to 113967. TRITICUM spp. Poaceae. Wheat.

From the Soviet Union. Seeds presented by Dr. N. I. Vavilov, Director, Institute of Plant Industry, Leningrad. Received February 25, 1936.

## 113942 to 113960. TRITICUM AESTIVUM L. Common wheat.

113942. No. 8547. *Ukrainka* 0246 (original). From the Mironovsk Experiment Station.  
 113943. No. 23667. *Erspr*. 2411. From the Moscow Experiment Station.  
 113944. No. 21680. *Hostianum* 237. From Alexandr. Experiment Station.  
 113945. No. 28116. *Saruba*. From Saratov Experiment Station.  
 113946. No. 22233. *Caesium* 0111. From the Omsk Experiment Station.  
 113947. No. 21859. *Lut*. 0329. From the Saratov Experiment Station.  
 113948. No. 11389. *Kooperatorke*. From the Odessa Experiment Station.  
 113949. No. 21841. *Stepniatschka*. From the Odessa Experiment Station.  
 Nos. 113950 to 113960 were from Transjordanian.  
 113950. No. 17403. 113956. No. 17418.  
 113951. No. 17404. 113957. No. 17421.  
 113952. No. 17405. 113958. No. 17422.  
 113953. No. 17407. 113959. No. 17428.  
 113954. No. 17413. 113960. No. 17429.  
 113955. No. 17417.

## 113961 to 113963. TRITICUM MACHA Dekapr. and Men.

113961. No. 28170. From Georgia.  
 113962. No. 28175. From Georgia.  
 113963. No. 28177. From Georgia.

## 113964. TRITICUM sp.

- No. 17425. From Transjordanian.  
 113965 to 113967. TRITICUM THAOUAR Reut.  
 113965. No. 29533. From Armenia.  
 113966. No. 15901. From Palestine.  
 113967. No. 27134. From Asia Minor.

## 113968 to 113970. SOJA MAX (L.) Piper. Fabaceae. Soybean.

From India. Seeds presented by the agricultural inspector, Khasi and Jaintia Hills, at the request of the economic botanist, Department of Agriculture, Jorhat, Assam. Received March 5, 1936.

## 113968 to 113970—Continued.

A collection of late-maturing Indian varieties of soybeans.

113968. *Nepali*; a large variety.  
 113969. *Spotted Khasi*.  
 113970. *White Khasi*.

## 113971. CHRYSANTHEMUM ERUBESCENS Stapf. Asteraceae.

From England. Plants presented by Sir Arthur W. Hill, Director, Royal Botanic Gardens, Kew, Surrey. Received March 14, 1936.

## 113972. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Uruguay. Tubers presented by the Instituto Fitotecnico y Semillero Nacional, La Estanzuela, Montevideo. Received March 12, 1936.

*Chaquena*.

## 113973. PYRUS COMMUNIS L. Malaceae. Pear.

From Portugal. Scions presented by Silveira da Cunha, Direcção Geral dos Serviços Agrícolas, Ministerio de Agricultura, Lisbon, at the request of Parker W. Buhrman, American consul general, Lisbon. Received March 23, 1936.

*Pera Rocha*, a red pear.

## 113974. HYPTIS SUAVEOLENS (L.) Poit. Menthaceae.

From Costa Rica. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received March 6, 1936.

*Chan*. (No. 3695?) From San José. A rigid annual of the mint family, which grows to a height of 2 or 3 feet, has a hairy stem, exceedingly variable leaves, and second flower heads. The seeds are used in Costa Rica to make an agreeable beverage. Native to tropical America.

## 113975 to 113980. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Guatemala. Seeds obtained through the American consul, Guatemala City, at the request of W. A. Archer, Bureau of Plant Industry. Received March 11, 1936.

From the Departamento Quiché.

113975. From Canton La Estancia, Jurisdicción Joyabaj.

113976. From Chiché.

113977. From Chichicastenango.

113978. From Canton Lencua, Jurisdicción Joyabaj.

113979. From Cunén.

113980. From Zacualpa.

## 113981 to 113983. PHLEUM PRATENSE L. Poaceae. Timothy.

From Sweden. Seeds presented by Algot Holmberg & Sons, Norrköping. Received March 10, 1936.

A collection of strains developed by Algot Holmberg & Sons.

113981. No. 1. A strain with moderately tall stems, very leafy, dark green.

113981 to 113983—Continued.

113982. No. 3. A strain with moderately tall stems, very leafy, medium green.

113983. *Ostgota*.

113984 and 113985. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Ceylon. Seeds presented by the economic botanist, Department of Agriculture, Colombo, through Robert L. Buell, American consul, Colombo. Received March 11, 1936.

113984. *Dumbara*. 113985. *Jaffna*.

113986 to 113988. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

From Syria. Trees and scions purchased from Selim Challah, Damascus. Received March 12, 1936.

113986. *Ajami*. A sweet, firm-fleshed white apricot.

113987. *Baladi*. A red apricot, rich in flavor.

113988. *Hamwi*. A white, soft-fleshed apricot.

113989. GOSSYPIUM BARBADENSE L. Malvaceae. Sea-island cotton.

From Puerto Rico. Seeds presented by F. A. Lopez Dominguez, Director, Experiment Station, Río Piedras. Received March 18, 1936.

113990. JUBAEA CHILENSIS (Molina) Baill. Phoenicaceae. Sirup palm.

From Chile. Seeds collected by Mrs. Ynes Mexia, collaborator, Bureau of Plant Industry. Received March 12, 1936.

For previous introduction see 113504.

113991 to 114027. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Costa Rica and Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received March 18, 1936.

Collected in February and March 1936, and, unless otherwise stated, the material was collected in Costa Rica.

113991. No. 3673. From San José. Volunteer plants.

113992. No. 3674. From San Pedro. Cultivated plants.

113993. No. 3700. From San Josecito de Alajuela. Volunteer plants.

113994. No. 3701. From San Pedro de Barba. Volunteer plants with narrow leaves and cerise-red flowers.

113995. No. 3702. From San Pedro de Barba. Volunteer plants with white flowers.

113996. No. 3703. From Barrio Jesús de Santa Barbara. Volunteer plants.

113997. No. 3705. *Colorado*. From Turrialba. Cultivated.

113998. No. 3706. *Chiricano*. From Turrialba. Cultivated.

113999. No. 3709. From Cachi. Cultivated.

Nos. 114000 to 114005 were from El Paraiso. Cultivated.

113991 to 114027—Continued.

114000. No. 3711.

114001. No. 3712. *Chiricano*.

114002. No. 3713.

114003. No. 3714.

114004. No. 3715. *Cacho Chivo*.

114005. No. 3716.

114006. No. 3718. From Ujarrás. A cultivated strain with large leaves, found in an old field.

114007. No. 3719. From Cachi. A volunteer plant with small leaves and pink flowers.

114008. No. 3721. From El Paraiso. Cultivated plants.

Nos. 114009 to 114014 were from Palmares, near El General. Cultivated tobacco.

114009. No. 3724. *Virginia*.

114010. No. 3725. *Largo*.

114011. No. 3726. *Oriollo* (probably).

114012. No. 3727. *Kentucky negro*.

114013. No. 3728. *Largo*.

114014. No. 3729. *Oriollo*.

114015. No. 3730. *Palmira*. Cultivated plants from Alajuela.

114016. No. 3731. *Kentucky*. Cultivated plants from Alajuela.

114017. No. 3732. From Turrialba. Cultivated tobacco.

114018. No. 3733. From Encarnación, Jalisco, Mexico.

114019. No. 3734. *Tabaco blanco*. From Turrialba. Cultivated plants.

114020. No. 3735. *Itzetepeque*. From Paso Ancho de San Sebastian. Cultivated tobacco.

Nos. 114021 and 114022. *Itzetepeque*. From Palmares, Province Alajuela.

114021. No. 3749.

114022. No. 3750. Selected seed, probably a pure strain.

114023. No. 3751. *Oriollo*. From San Joaquin de Heredia. Cultivated plants with pale-pink flowers.

114024. No. 3696. *Copan*. From Escazu. Cultivated plants.

114025. No. 3697. From Santa Rosa. Volunteer plants with pale-pink flowers.

114026. No. 3698. A mixed sample from San Josecito de Alajuela.

114027. No. 3699. *Itzetepeque* (hybrid). Volunteer plants from Santa Rosa.

114028 and 114029.

From the Soviet Union. Seeds presented through N. I. Sharapov, Head, Department of New Cultures and Introduction, Institute of Plant Industry, Leningrad. Received March 12, 1936.

114028. PRUNUS JAPONICUS Thunb. Amygdalaceae. Chinese bush cherry.

114029. PRUNUS TOMENTOSA Thunb. Amygdalaceae. Manchu cherry.

For previous introduction see 92057.

## 114030 to 114035.

From Iraq. Seeds presented by M. S. Radi, Director of Agriculture, Baghdad. Received March 14, 1936.

114030. *ALLIUM CEPA* L. Liliaceae. Onion.  
A round white onion.

114031. *ALLIUM PORRUM* L. Liliaceae.  
Leek.  
Egyptian leek.

114032. *BRASSICA RAPA* L. Brassicaceae.  
Turnip.

114033. *LACTUCA SATIVA* L. Cichoriaceae.  
Garden lettuce.

114034. *LYCOPERSICON ESCULENTUM* Mill.  
Solanaceae. Tomato.

114035. *SOLANUM MELONGENA* L. Solanaceae.  
Eggplant.

## 114036 to 114055.

From Costa Rica and Honduras. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received March 10, 1936.

114036. *CUPRESSUS BENTHAMII* Endl. Pinaceae.  
Bentham cypress.

No. 3677. From San Pedro, Costa Rica, February 20, 1936. A cypress of elegant habit often up to 90 feet high, with regularly pinnate flattened branchlets. Native to southern Mexico and Central America at altitudes of 4,000 to 10,000 feet.

114037. *HYPTIS SUAVEOLENS* (L.) Poit. Menthaceae.

No. 3695. *Chan.* From the market at Alajuela, Costa Rica, February 22, 1936.

For previous introduction and description see 113974.

114038. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

No. 3671. From Santa Rosa de Copan, Honduras, February 1, 1936.

114039. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

No. 3672. From Veracruz, Departamento Copan, Honduras, February 1, 1936. Cultivated tobacco.

114040. *POLAKOWSKIA TACACO* Pittier. Cucurbitaceae.

No. 3690. *Tacaco.* From San José, Costa Rica, February 21, 1936. A perennial climber, related to the chayote, *Sesquium edule*, native to Costa Rica. The fleshy fruits, about 2 inches long, are cooked and eaten as a vegetable.

114041 to 114054. *PHASEOLUS* spp. Fabaceae.

A collection of cultivated beans from Costa Rica.

114041. *PHASEOLUS CALCARATUS* Roxb. Rice bean.

No. 3689. *Frijoles de arroz.* From the market at San José, February 21, 1936.

114042. *PHASEOLUS COCCINEUS* L. Scarlet runner bean.

No. 3676. Cuba. From San José, February 16, 1936.

114043 to 114054. *PHASEOLUS VULGARIS* L. Common bean.

114043. No. 3680. *Bayos.* From San Pedro, February 20, 1936.

## 114036 to 114055—Continued.

114044. No. 3694. *Bayos.* From Alajuela, February 22, 1936.

Nos. 114045 to 114047 were collected at San Pedro, February 20, 1936.

114045. No. 3681. *Bianco.*

114046. No. 3686. *Carnes.*

114047. No. 3687. *Chilenos.*

114048. No. 3688. *Chimbolos.* From the market at San José, February 21, 1936.

Nos. 114049 to 114054 were collected in San Pedro, February 20, 1936.

114049. No. 3678. *Guarias.*

114050. No. 3682. *Jamisqueños.*

114051. No. 3679. *Morados.*

114052. No. 3683. *Muñeco.*

114053. No. 3685. *Pisques.*

114054. No. 3684. *Pototos.*

114055. *SORGHUM VULGARE* Pers. Poaceae. Sorghum.

No. 3675. *Millo.* From San José, Costa Rica, February 16, 1936. Grains popped like popcorn for candy; also used for poultry feed.

114056. *QUEBECUS* sp. Fagaceae. Oak.

From France. Plants purchased from Leopold Level, Martel (Lot). Received March 18, 1936.

Truffle oak.

## 114057 to 114065.

From Costa Rica. Bulbs collected by W. A. Archer, Bureau of Plant Industry. Received March 17, 1936.

Nos. 114057 and 114058 were collected at San Rafael de Coronado, February 26, 1936.

114057. (Undetermined.)

No. 3744. *Nardo.*

114058. *HIPPEASTRUM* sp. Amaryllidaceae.

No. 3742. *Nardo.*

114059. (Undetermined.)

No. 3704. *Resurrección.* Collected at San Rafael de Coronado, February 23, 1936. A cultivated ornamental.

114060. *GLADIOLUS* sp. Iridaceae.

No. 3741. *Lluvia de oro.* From San José, March 2, 1936.

114061. *HIPPEASTRUM* sp. Amaryllidaceae.

No. 3743. *Nardo.* From San Rafael de Coronado, February 23, 1936. A variety with white flowers marked with pink.

114062. *HIPPEASTRUM* sp. Amaryllidaceae.

No. 3745. *Nardo.* From Cartago, February 21, 1936.

Nos. 114063 to 114065 were collected at San José, February 23, 1936.

114063. *ZEPHYRANTHES* sp. Amaryllidaceae.

No. 3738. *Lagrimas de Maria.* A strain with white flowers.

114057 to 114065—Continued.

114064. *ZEPHYRANTHES* sp. *Amaryllidaceae*.

No. 3739. *Lagrimas de Maria*. Flowers pink.

114065. *ZEPHYRANTHES* sp. *Amaryllidaceae*.

No. 3740. *Lagrimas de Maria*. Flowers pink; said to be native.

114066. *RUBUS MACROCARPUS* Benth. *Rosaceae*. **Colombian blackberry.**

From Colombia. Seeds presented by Alexander M. Allen, Ibague. Received March 16, 1936.

The *Colombian berry* or *Mora*.

For previous introduction see 112017.

114067 to 114073. *NICOTIANA TABACUM* L. *Solanaceae*. **Common tobacco.**

From Colombia and Ecuador. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received March 19, 1936.

Nos. 114067 and 114068, *Ambalema*, were collected at Rozo, Palmira, Valle, Colombia.

114067. No. 68. 114068. No. 69.

114069. No. 70. *Pina*. Collected Janu- collected at Rozo, Palmira, Valle, Colombia.

Nos. 114070 to 114073 were collected in Ecuador.

114070. No. 71. *Shatri*. Collected February 24, 1936, at Ibarra, Imbabura. Petiolated tobacco.

114071. No. 72. From Quito.

114072. No. 73. "Tallo-Blanco-500." *Argentina*. From Quito.

114073. No. 74. *Tobaco común*. From San Pedro, Imbabura, February 23, 1936.

114074. *PRUNUS SIBIRICA* L. *Amygdalaceae*. **Siberian apricot.**

From Manchuria. Seeds purchased from L. Ptitzin, Harbin. Received March 18, 1936.

A wild Siberian apricot collected on the western shore of Lake Delai Nor, Barga District.

114075 to 114080. *ASTER* spp. *Astera- ceae*.

From the Netherlands. Plants purchased from B. Ruys Ltd., Royal Moerheim Nurseries, Dedemsvaart. Received March 24, 1936.

114075. *ASTER ACRIS* L.

A showy slender-branched perennial aster up to 3 feet high, with large blue- flower heads. Native to southern Europe.

114076. *ASTER*.

*Lady Henry Maddocks*, a hybrid with pale-pink flowers.

114077. *ASTER*.

*Ronald*. A hybrid 12 inches high with bright lilac-pink flowers.

114078. *ASTER AMELLUS* L.

*Rud Goethe*. A form with lavender- blue flowers.

114075 to 114080—Continued.

114079. *ASTER AMELLUS* L.

*Sonia*. A late-blooming form with bright rose-pink flowers.

114080. *ASTER NOVI-BELGHII* L.

*Col. F. R. Durham*. A form over 3 feet high, with dark-green feathery foliage and many double purple-blue flowers.

114081. *TEPHROSIA TOXICARIA* (Sw.) Pers. *Fabaceae*.

From Ecuador. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received March 19, 1936.

Collected near Guayupe (Carolina), Province of Imbabura, February 24, 1936.

114082 to 114088. *NICOTIANA TABACUM* L. *Solanaceae*. **Common tobacco.**

From Costa Rica. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received March 24, 1936.

114082. No. 3710. Volunteer tobacco from Los Angeles.

114083. No. 3720. Volunteer tobacco from Los Angeles.

114084. No. 3753. *Itzetepeque*. From San José.

114085. No. 3759. *Itzetepeque*. From San Miguel de Naranjo.

114086. No. 3760. From San Miguel de Naranjo.

114087. No. 3762. *Ohiricano*. From Gerardo.

114088. No. 3765. From Santiago de Furiseal.

114089 and 114090.

From Africa. Seeds purchased from the Mount Elgon Nurseries, Kitale, Kenya Colony. Received March 30, 1936.

114089. *GLORIOSA ROTHSCHILDIANA* O'Brien. *Melanthiaceae*.

*Lutea*. A branching gloriosa with bright-green, oblong-acuminate leaves and large yellow flowers with brown markings. Native to tropical Africa.

114090. *PENTAS LANCEOLATA* (Forsk.) Schum. *Rubiaceae*.

A soft-wooded shrub 2 feet high, native to tropical Africa. The ovate-lanceolate leaves are 3 to 6 inches long, and the brilliant carmine flowers are in terminal heads. The plant must have partial shade.

For previous introduction see 99615.

114091 to 114107. *ASTER* spp. *Astera- ceae*.

From the Netherlands. Plants purchased from B. Ruys Ltd., Royal Moerheim Nurseries, Dedemsvaart. Received March 25, 1936.

114091. *ASTER ACRIS* L.

For previous introduction and description see 114075.

114092 to 114095. *ASTER*.

114092. *Countess of Dudley*, a hybrid with clear pink flowers.

114093. *Marjorie*, a hybrid with bright rose-pink flowers.

## 114091 to 114107—Continued.

114094. *Nancy*, a hybrid with pale flesh-pink flowers.

114095. *Victor*, a hybrid 6 inches high with clear pale-lavender flowers.

114096 to 114106. *ASTER AMELLUS* L.

A collection of dwarf varieties about 24 inches high, which bloom in August and September.

114096. *Blaustern*, flowers very early, violet.

114097. *Elisabeth Liemann*, deep-pink flowers.

114098. *Friquet*, delicate pale-pink flowers.

114099. *Heinrich Setbert*, extra large pink flowers.

114100. *King George*, bluish-violet flowers.

114101. *Madame Besnard*, compact, large pink flowers.

114102. *Mignon*, dark-blue flowers with narrow petals.

114103. *Moerheim Gem*, very large, brilliant, deep dark-purple flowers.

114104. *Rosa von Ronsdorf*, pure-pink flowers.

114105. *Rotfeuer*, deep-red flowers.

114106. *Schönste von Eisenach*, deep-pink, very large, well-formed flowers; an excellent pink novelty.

114107. *ASTER NOVI-BELGII* L.

*Charles Wilson*, a lovely cerise pink of a quite new rare shade; a great improvement of the variety *Red Rover*.

114108. *AMMOCHARIS COCCINEA* Pax. *Amoryllidaceae*.

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley. Received March 21, 1936.

A bulbous amaryllid, with many strap-shaped leaves and a dense umbel, over 6 inches in diameter, of large bright-crimson flowers. Native to southern Africa.

114109. *GOSSEPIUM*. *Malvaceae*. **Cotton.**

From Argentina. Seeds presented by the Estación Experimental Agrícola, Tucuman. Received November 27, 1935. Numbered in March 1936.

*Chaco* cotton.

114110. *GOSSEPIUM HIRSUTUM* L. *Malvaceae*. **Upland cotton.**

From Mexico. Seeds collected in Chiapas by J. H. Kempton, Bureau of Plant Industry. Received November 26, 1935. Numbered in March 1936.

*Acala* cotton.

114111. *SACCHARUM*. *Poaceae*. **Sugar cane.**

From Egypt. Cuttings presented by A. H. Rosenfeld, Sugar Technologist, Department of Agriculture, Giza. Received March 26, 1935. Numbered in March 1936.

*E No. 12.*

114112 to 114121. *VITIS VINIFERA* L. *Vitaceae*. **European grape.**

From the Soviet Union. Cuttings presented by A. Popov, head of Department of New Cultures and Introduction, Institute of Plant Industry, Leningrad. Received March 26, 1936.

114112. *Black Kishmish*.

114113. *Hassaine*.

114114. *Houssaine*.

114115. *Katta Kurgan*.

114116. *Nimrang*.

114117. *Saidi-Gulami*.

114118. *Sultana*.

114119. *Tcharas*.

114120. *Toift*.

114121. *Tshilact*.

## 114122 to 114140.

From Costa Rica and Honduras. Seeds and bulbs collected by W. A. Archer, Bureau of Plant Industry. Received in March 1936.

114122 to 114128. *NICOTIANA TABACUM* L. *Solanaceae*. **Common tobacco.**

Nos. 114122 to 114128 were collected in Costa Rica.

114122. No. 3717. From Crosti. Volunteer tobacco.

114123. No. 3722. From San Isidro del General.

114124. No. 3723. From San Isidro del General.

114125. No. 3754. From San Isidro de San Ramon.

114126. No. 3755. From San Isidro de San Ramon.

114127. No. 3757. *Goludo*. From San Miguel de Naranjo.

114128. No. 3761. *Cacho de Chivo*. From Gerardo.

Nos. 114129 to 114136 were collected in Honduras.

114129. No. 3766. From Trinidad de Copan.

114130. No. 3767. From Dolores de Copan.

114131. No. 3768. From Veracruz de Copan.

114132. No. 3769. From Florida de Copan.

114133. No. 3770. From Concepcion de Copan.

114134. No. 3771. *Sumatra Dehlt prima*. From El Paraiso.

114135. No. 3772. *Sumatra Dehlt segunda*. From El Paraiso.

114136. No. 3773. *Sumatra Java prima*. From El Paraiso.

114137. *HIPPEASTRUM* sp. *Amoryllidaceae*. No. 3764. Bulbs collected at San José, Costa Rica, March 8, 1936.

114138. *ABELMOSCHUS ESCULENTUS* (L.) Moench. *Malvaceae*. **Okra.**

No. 3736. *Cafe de Mocha*. From San José, Costa Rica, February 28, 1936. The green fruits are used as a vegetable; the seeds are dried and used as coffee.

114122 to 114140—Continued.

114139. *IPOMORA* sp. Convolvulaceae.

No. 3737. *Campanula*. From San José, Costa Rica, February 29, 1936. A native ornamental with large sky-blue flowers.

114140. *SENECIO* sp. Asteraceae.

No. 3747. Collected near El Paraiso, Costa Rica, February 27, 1936. An ornamental composite with dark red-orange flowers.

114141 and 114142. *GOSSYPIUM*. Malvaceae. Cotton.

From Haiti. Seeds collected by H. D. Barker, Bureau of Plant Industry, at the Agricultural Experiment Station, Port-au-Prince. Received March 27, 1936.

114141. Selection of Forbes-Barker cotton, 36-8-34-5.

114142. Selection of Forbes-Barker cotton, R-6-8-29.

114143 to 114149.

From Rumania. Seeds presented by Prof. M. Vladescu, Director, Botanic Garden of the University of Bucharest, Bucharest. Received March 20, 1936.

114143 to 114146. *DELPHINIUM* spp. Ranunculaceae. Larkspur.

114143. *DELPHINIUM CONSOLIDA* L. Field larkspur.

An erect hairy annual over a foot high, with blue or white flowers in loose panicles. Native to Europe.

For previous introduction see 104951.

114144. *DELPHINIUM LAXIFLORUM* DC.

A hardy herbaceous perennial about 3 feet high, with three- to seven-lobed leaves and blue flowers in lax racemes. Native to Siberia.

114145. *DELPHINIUM SULPHEURUM* Boiss. and Haussk.

A tuberous-rooted delphinium up to 2 feet high. The dark-green leaves have several narrow linear lobes, and the large light-yellow flowers are in long racemes. Native to Iran (Persia).

114146. *DELPHINIUM ILIENSE* Huth.

An erect perennial about 3 feet high, with much-divided leaves and many pale-blue flowers in long racemes. Native to Turkistan.

114147. *DIANTHUS GLACIALIS* Haenke. Sileneaceae.

A tufted perennial up to 4 inches high, similar to *Dianthus alpinus*. The small odorless red-purple flowers are borne singly or up to three in a cluster. Native to the mountains of southern Europe.

114148. *RUBUS CAESIUS* L. Rosaceae. Dewberry.

For previous introduction and description see 113859.

114149. *RUBUS ROSAEFOLIUS* J. E. Smith. Rosaceae. Roseleaf raspberry.

A raspberry native to southeastern Asia and evergreen in the Tropics. The hairy stems are 3 to 6 feet high, the pinnately compound leaves are made up of two to seven pairs of ovate sharply serrate leaflets, and the white flowers, 1 to 2 inches across, are in small clusters and are fol-

114143 to 114149—Continued.

lowed by erect, bright-red, thimble-shaped fruits nearly 2 inches long, edible but insipid.

For previous introduction see 99706.

114150 to 114188.

From the Netherlands. Seeds presented by the Director, Botanic Garden, Leyden. Received March 25, 1936.

114150 to 114159. *CUCURBITA* spp. Cucurbitaceae.

114150. *CUCURBITA FICIFOLIA* Bouche. Alcallota.

A melon, native to Ecuador, where it is cultivated extensively and used as food for man as well as for stock feed. The melons weigh 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-shelled and the green and white striped.

For previous introduction see 76092.

114151 and 114152. *CUCURBITA MAXIMA* Duchesne. Squash.

114153 to 114159. *CUCURBITA PEPO* L. Pumpkin.

114153. The common type.

114154. Variety *Aurantiaca*.

114155. Variety *Citriformis*.

114156. Variety *Maliformis*.

114157. Variety *Ovifera*.

114158. Variety *Pyriformis*.

114159. Variety *Verrucosa*.

114160 to 114166. *DELPHINIUM* spp. Ranunculaceae. Larkspur.

114160. *DELPHINIUM ELATUM* L. Bee larkspur.

A European species 2 to 6 feet high, bearing blue flowers with dark-violet petals.

For previous introduction see 53143.

114161. *DELPHINIUM CONSOLIDA* L. Field larkspur.

For previous introduction and description see 114143.

114162. *DELPHINIUM GEYERI* Greene.

A perennial delphinium up to about 2 feet high, with rather large, deep-blue flowers in a compact raceme. Native to the high plains of Wyoming and Colorado.

114163. *DELPHINIUM MAACKIANUM* Regel.

An erect, perennial delphinium up to 3 feet high, with three- to five-parted leaves and many blue flowers in racemes. It is closely related to *Delphinium elatum*.

114164. *DELPHINIUM TATSIENENSIS* Franch.

A larkspur from western China with slender stems and hairy leaves divided into three to five deep sections. The deep-blue flowers are in a large loose raceme.

For previous introduction see 104851.

## 114150 to 114188—Continued.

114165. *DELPHINIUM TRISTE* Fisch.

A perennial larkspur with three- to five-parted leaves and lax racemes of dark reddish-tan flowers. Native to Siberia.

For previous introduction see 104953.

114166. *DELPHINIUM* sp.114167. *PHASEOLUS COCCINEUS* L. Fabaceae.  
Scarlet runner bean.114168 and 114169. *PISUM SATIVUM* L. Fabaceae.  
Pea.114170 to 114177. *RHEUM* spp. Polygonaceae.  
Rhubarb.114170. *RHEUM AUSTRALE* Don.

For previous introduction see 110582.

114171. *RHEUM FRANZENBACHII* Muentzer.

A rapidly growing species, native to temperate Asia. It is a striking ornamental, suitable for borders and possibly useful for breeding purposes.

For previous introduction see 110625.

114172. *RHEUM MACROPTERUM* Mart.

A plant with handsome foliage and striking clusters of flowers and seeds, valuable perhaps for borders or breeding purposes. Country of origin unknown.

For previous introduction see 110628.

114173. *RHEUM MOORCROFTIANUM* Royle.

A stout stemless plant with large, thick, orbicular leaves, all radical. Native to the western Himalayas.

For previous introduction see 31042.

114174. *RHEUM OFFICIANALE* Baill.

A stout perennial with a short branching stem and very large round-oval leaves 1 to 3 feet across. The flower stems, 3 to 10 feet high, bear the numerous greenish flowers in a large feathery panicle. This is the medicinal rhubarb found throughout western China.

For previous introduction see 110627.

114175. *RHEUM RHAPONTICUM* L.  
Common rhubarb.114176. *RHEUM RIBES* L.

A herbaceous perennial up to 5 feet high, with large cordate to reniform leaves and panicles of small blood-red, narrow-winged fruits. Native to the mountains of southwestern Asia.

114177. *RUBUS CAESIUS* L. Rosaceae.  
Dewberry.

For previous introduction and description see 113859.

114178 to 114188. *SOLANUM* spp. Solanaceae.114178. *SOLANUM ARGENTUM* Dun.

A shrub about 6 feet high, with ovate-oblong leaves about 4 inches long and small white flowers. Native to Brazil.

114179. *SOLANUM AVICULARE* Forst. f.  
Nightshade.

A bushy shrub 6 to 8 feet high, with lacinate leaves 10 inches long, small cymes of large dark-purple flowers, and

## 114150 to 114188—Continued.

yellowish fruits an inch in diameter, which are used for making marmalade.

For previous introduction see 110658.

114180. *SOLANUM CAPSICASTRUM* Link.  
False Jerusalem-cherry.

For previous introduction see 110762.

114181 and 114182. *SOLANUM DULCAMARA* L.  
Bitter nightshade.

For previous introduction see 110812.

114183 and 114184. *SOLANUM MELONGENA* L.  
Eggplant.

For previous introduction see 114035.

114185 and 114186. *SOLANUM NIGRUM* L.  
Bitter nightshade.

For previous introduction see 110590.

114187. + *SOLANUM PROTEUS* Winkl.

A graft hybrid (*Lycopersicon esculentum* × *Solanum nigrum*).

114188. *SOLANUM TUBEROSUM* L. Potato.114189 and 114190. *ZEPHYRANTHES* spp.  
Amaryllidaceae.

From Mexico. Bulbs collected at Tapachulo, Chiapas, by W. A. Archer, Bureau of Plant Industry. Received March 26, 1936.

114189. *ZEPHYRANTHES* sp.

No. 3774. Collected March 14, 1936. A species with white flowers.

114190. *ZEPHYRANTHES ROSEA* Lindl.  
Pink zephyrilly.

No. 3775. Collected March 14, 1936. A tender autumn-blooming species, native to Cuba, with linear, bright-green leaves and rose-colored flowers an inch long on a peduncle 4 to 6 inches long.

For previous introduction see 112352.

114191. *SACCHARUM SPONTANEUM* L.  
Poaceae.

From Japan. Cuttings presented by Dr. T. Miyake, Department of Agriculture, Government Research Institute, Taihoku, Formosa.

114192 to 114203. *TRICYRTIS* spp. Melanthiaceae.

From Japan. Plants purchased from K. Wada, Hakoneya Nurseries, Numazu-shi. Received March 31, 1936.

114192. *TRICYRTIS FLAVA* Maxim.

A dwarf tricyrtis with oblong-lanceolate leaves and large yellow campanulate flowers in racemes. Native to Japan.

114193. *TRICYRTIS FORMOSANA* Baker.

A herbaceous perennial with flexuous stems up to 10 inches high, sessile lanceolate leaves 4 to 5 inches long, and showy blended spotted, red- and blue-purple flowers in lax few-flowered corymbs. Native to Taiwan.

114194. *TRICYRTIS HIRTA* Hook.

Variety *Albida*. A form with pure-white flowers.

114195. *TRICYRTIS LATIFOLIA* Maxim.

A tricyrtis with zigzag stems up to 3 feet high, broadly oblong or ovate leaves, and a terminal corymb of whitish flowers with small purple spots. Native to Japan.

## 114192 to 114203—Continued.

114196. *TRICYRTIS MACRANTHA* Maxim.

A *tricyrtis* with large, pendent, campanulate, sulfur-yellow flowers. Native to Japan.

114197. *TRICYRTIS OHSUMIENSIS* Masamune.

A *tricyrtis* over a foot high with pubescent, oblong leaves up to 5 inches long, and large yellow axillary flowers. Closely allied to *Tricyrtis flava*. Native to Japan.

114198. *TRICYRTIS STOLONIFERA* Matsum.

A herbaceous perennial with a stoloniferous base and stems about 1 foot high, which are hairy when young and later become glabrous. The elliptic-lanceolate leaves 2 to 4 inches long, narrowed to a sheathing base, have dark blotches and sunken nerves, and the pale-purple flowers are indistinctly blotched with deeper purple. Native to Japan.

114199. *TRICYRTIS YATABEANA* Masamune.

A herbaceous perennial with leafy stems about a foot high, oblong-lanceolate leaves, and showy, yellow, bell-shaped flowers with dark purple spots. Native to Japan.

114200. *TRICYRTIS* sp.114201. *TRICYRTIS FORMOSANA* × *HIRTA*.

*Hekium*, a hybrid with large panicles of bluish-pink flowers.

114202. *TRICYRTIS FORMOSANA* × *HIRTA*.

*Town*, a hybrid similar in habit to *hirta*. The flowers, borne on a terminal open panicle, are variable in color, some thickly speckled and blotched with rich red purple on a ground of pale pink; others similarly marked with blue purple on a light-blue base.

114203. *TRICYRTIS* sp.

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

## 114204 to 114291.

From India. Seeds collected in the Spiti District, Punjab, by the Asiatic Expedition. Received March 2, 1936.

114204 to 114208. *AGROPYRON* spp. Poaceae.114204. *AGROPYRON DENTATUM* Hook. f.

No. 7. From Wangtoo, Bashahr. A perennial grass allied to *Agropyron repens*. Native to Kashmir and western Tibet at altitudes of 9,000 to 14,000 feet.

114205. *AGROPYRON INTERMEDIUM* (Host) Beauv.

No. 15. From Kyibar, September 28, 1935.

For previous introduction see 111251.

114206. *AGROPYRON LONGEARISTATUM* Boiss.

No. 4. From Losar, September 22, 1935. A perennial grass with ascending stems up to 3 feet high. Native to Iran (Persia).

114207. *AGROPYRON LONGEARISTATUM* Boiss.

No. 34. From Losar, September 24, 1935.

## 114204 to 114291—Continued.

114208. *AGROPYRON SEMICOSTATUM* Nees.

No. 16. From Kyibar, September 27, 1935. A perennial fibrous rooted grass with erect stems and narrowly linear leaves; native to Asia from Afghanistan to Manchuria.

For previous introduction see 109808.

114209 and 114210. *AGROSTIS ALBA* L. Poaceae.

Redtop.

114209. No. 14. From the Kaza Pin Valley, September 29, 1935.

114210. No. 14-A. From the Kaza Pin Valley, October 1, 1935.

114211. *ALLIUM* sp. Liliaceae.

No. 61. From Kyibar, September 28, 1935.

114212. *ARABIS TIBETICA* Hook. f. and Thoms. Brassicaceae.

No. 48. From Klot, September 25, 1935. A perennial herb with numerous leafy stems about 6 inches high; obovate to lanceolate or spatulate leaves and numerous small white or pink flowers in racemes. Native to the Himalayas at altitudes of 9,000 to 16,000 feet.

114213. *ARNEBIA* sp. Boraginaceae.

No. 57. From Kyibar, September 27, 1935. A good fodder plant.

114214. *ARTEMISIA PARVIFLORA* Buch.-Ham. Asteraceae.

No. 52. From Kyuling, October 2, 1935. A perennial herb with ascending stems. Native to the temperate Himalayas at altitudes of 5,000 to 9,000 feet.

114215 to 114218. *ASTRAGALUS* spp. Fabaceae.

Milkvetch.

114215. *ASTRAGALUS PEDUNCULARIS* Royle.

No. 40. From Chikkim, September 28, 1935, at 13,000 feet altitude. A tall herbaceous perennial, native to north-eastern India; common on dry slopes.

114216. *ASTRAGALUS* sp.

From Dahl, Kulu, at 10,000 feet altitude, September 1935.

114217. *ASTRAGALUS* sp.

No. 41. From Kyibar, September 27, 1935. An herb with woolly pods.

114218. *ASTRAGALUS* sp.

No. 42. From Pin Valley, October 2, 1935.

114219. *AVENA ASPERA* Munro. Poaceae.

Grass.

No. 8. From Losar, Bashahr, September 21, 1935. A tall slender perennial grass. Native to Ceylon.

114220 to 114223. *BROMUS* spp. Poaceae.

Grass.

114220. *BROMUS GRACILLIMUS* Bunge.

No. 26. From Losar, September 25, 1935. An annual grass with erect stems about 1 foot high. Native to southeastern Asia.

114221. *BROMUS MACROSTACHYS* Desf.

No. 19. From Kyuling, Pin Valley, October 2, 1935. An erect annual grass up to 2 feet high. The narrow compact panicle consists of a few large

## 114204 to 114291—Continued.

spikelets. It is native to the Mediterranean region and is sometimes cultivated as an ornamental.

For previous introduction see 107503.

114222. *BROMUS RAMOSUS* Huds.

No. 10. From Kyulung, Pin Valley, October 4, 1935, at 13,000 feet altitude. A perennial grass with erect stems, sometimes 6 feet high. Native to Europe.

114223. *BROMUS SQUARROSUS* L.

No. 9. From Wangtoo, Bashahr, October 8, 1935.

For previous introduction see 111164.

114224 to 114228. *CALAMAGROSTIS* spp. Poaceae.114224. *CALAMAGROSTIS COMPACTA* (Munro) Hack.

No. 25. From Losar, September 24, 1935. A densely tufted perennial alpine grass with stems 6 to 18 inches high. Native to the Himalayan region.

114225 to 114227. *CALAMAGROSTIS NEPALENSIS* Nees.

A perennial grass, native to the Himalayan region.

114225. No. 9. From Kyibar, September 27, 1935, at 13,400 feet altitude.

114226. No. 9-A. From Kioto, September 28, 1935.

114227. No. 9-B. From Pin Valley, October 8, 1935.

114228. *CALAMAGROSTIS* sp. No. 30-A.114229. *CARDUUS* sp. Asteraceae.

No. 51. From Kioto, September 25, 1935.

114230 to 114233. *CAREX* spp. Cyperaceae. Sedge.114230. *CAREX REMOTA* L.

No. 4. From Kara, Bashahr, October 5, 1935. A sedge with slender clustered stems sometimes over 2 feet high. Native to north temperate regions.

114231. *CAREX* sp.

No. 12. From Kyibar, September 27, 1935.

114232. *CAREX* sp.

No. 31. From Losar, September 23, 1935.

114233. *CAREX* sp.

No. 8. From Losar, October 5, 1935.

114234. *CHENOPODIUM FOLIOSUM* (Moench) Aschers. Chenopodiaceae.

No. 60. From Kyibar, September 2, 1935.

114235. *CHRISTOLEA CRASSIFOLIA* Cambess. Brassicaceae.

No. 49. From Kyibar, September 23, 1935. A bushy perennial about 1 foot high, with obovate-cuneate leaves deeply notched at the tip and loose racemes of very small yellow flowers. Native to northeastern India.

## 114204 to 114291—Continued.

114236. *CICER SONGARICUM* Steph. Fabaceae.

No. 37. From Losar, September 24, 1935. A widespread annual with wiry stems and thick leaves about 4 inches long, the 10 to 12 pairs of ovate leaflets gradually growing smaller upwards. Native to central Asia.

114237. *CYNODON DACTYLON* (L.) Pers. Poaceae. Bermuda grass.

No. 1. From Wangtoo, Bashahr, October 8, 1935, at 9,000 feet altitude.

114238. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.

No. 2. From Kara, Bashahr, October 5, 1935, at 12,500 feet altitude.

114239. *DANTHONIA CACHEMYRIANA* Jaub. and Spach. Poaceae. Grass.

No. 28. From Kaze, September 29, 1935. A perennial grass with stems up to 2 feet high, ascending from a stout woody stock, densely tufted or creeping below. Native to the temperate and alpine Himalayas and western Tibet at altitudes of 10,000 to 14,000 feet.

For previous introduction see 49629.

114240. *DIGITARIA SANGUINALIS* (L.) Scop. Poaceae.

No. 3. From Bashahr, September 22, 1935.

114241 to 114243. *ELYMUS* spp. Poaceae.114241. *ELYMUS DASYSTACHYS* Trin.

No. 3. From Losar, October 8, 1935.

For previous introduction see 113125.

114242. *ELYMUS SIBIRICUS* L.

No. 11. From Kyibar, September 27, 1935.

114243. *ELYMUS SIBIRICUS* L.

No. 13. From Losar, September 23, 1935.

114244. *EPHEDRA GERARDIANA* Wall. Gnetaeae.

No. 59. From Pin Valley, October 2, 1935.

For previous introduction and description see 113620.

114245. *FERULA* sp. Apiaceae.

No. 55. From Siling, Pin Valley, October 2, 1935.

114246 to 114253. *FESTUCA* spp. Poaceae. Fescue.114246 to 114249. *FESTUCA CUMMINII* Stapf.

A perennial grass with tufted stems up to about 1 foot high. Native to the Himalayan region at altitudes of about 11,000 feet.

114246. No. 2. From Losar, September 22, 1935.

114247. No. 2-A. From Pin Valley, September 2, 1935.

114248. No. 2-B. From Pin Valley, October 4, 1935.

114249. No. 29. From Pin Valley, October 4, 1935.

114204 to 114291—Continued.

114250. *FESTUCA LUCIDA* Stapf.  
No. 6. From Losar, October 5, 1935. A perennial grass with tall rather stout stems. Native to the Himalayan region.
114251. *FESTUCA RUBRA LANUGINOSA* Mert. and Koch.  
No. 7. From Losar, September 24, 1935.
114252. *FESTUCA* sp.  
From Kulu, August 10, 1935, at 10,000 feet altitude.
114253. *FESTUCA* sp.  
From Kulu, August 28, 1935, at over 10,000 feet altitude.
114254. *HYSSOPUS OFFICINALIS* L. Mentha-  
ceae. Hyssop.  
No. 43. From Kyuling, October 2, 1935. An aromatic herbaceous perennial with blue flowers rich in nectar.  
For previous introduction, see 32238.
114255. *JUNCUS* sp. Juncaceae.  
No. 23. From Losar, September 24, 1935.
114256. *LACTUCA ORIENTALIS* Boiss. Cl-  
choriaceae.  
No. 50. From Pin Valley, October 1, 1935. A shrubby perennial about 1 foot high, with small heads of yellow flowers. Native to eastern Asia.
114257. *LEPIDIUM LATIFOLIUM* L. Brassi-  
ceae.  
No. 47. From Pin Valley, October 2, 1935.
- 114258 and 114259. *LINUM PERENNE* L. Linaceae. Perennial flax.  
114258. No. 56. From Kyibar, October 3, 1935.  
114259. No. 56-A. From Kyibar, Sep-  
tember 28, 1935.
114260. *ASTRAGALUS* sp. Fabaceae.  
From Ryelang, Lahul.
114261. *MEDICAGO* sp. Fabaceae.  
No. 38. From Kyuling, October 2, 1935.
114262. *MELICA CUPANI* Guss. Poaceae.  
No. 17. From Kioto, September 25, 1935.
114263. *MENTHA LONGIFOLIA* (L.) Huds. Mentha-  
ceae.  
No. 44. From Kyuling, October 2, 1935.
114264. *NEPETA DISCOLOR* Royle. Mentha-  
ceae.  
No. 45. From Kyibar, September 28, 1935. A procumbent herb with small broad-ovate leaves and spikes of many small white or pale-blue flowers. Native to the Himalayas at altitudes of 10,000 to 15,000 feet.
114265. *ORYZOPSIS ABQUIGLUMIS* Duthie. Poaceae. Grass.  
No. 18. From Losar, September 2, 1935. A tall stout perennial grass, native to the temperate Himalayas.

114204 to 114291—Continued.

114266. *ORYZOPSIS LATERALIS* Stapf. Poa-  
ceae. Grass.  
No. 22. From Losar, September 21, 1935. A densely tufted perennial grass, native to the Himalayas at altitudes of 12,000 to 14,000 feet.
- 114267 to 114269. *PENNISETUM* spp. Poa-  
ceae.
114267. *PENNISETUM FLACCIDUM* Griseb.  
No. 20. From Kyuling, October 2, 1935.
114268. *PENNISETUM FLACCIDUM* Griseb.  
No. 20-A. From Kyibar, September 28, 1935.
114269. *PENNISETUM ORIENTALE* L. Rich.  
No. 17-A. From Kioto, September 25, 1935.
114270. *PHRAGMITES COMMUNIS* Trin.  
No. 33. From Kyuling, October 3, 1935.
- 114271 to 114274. *POA* spp. Poaceae. Bluegrass.
114271. *POA PERSICA* Trin.  
No. 35. From Losar, September 25, 1935.
114272. *POA PRATENSIS* L. Kentucky bluegrass.  
No. 32. From Pin Valley, October 4, 1935.
114273. *POA STERILIS* Bleh.  
No. 5. From Losar, September 23, 1935. A tufted perennial grass, native to the Caucasus region.
114274. *POA* sp.  
No. 6. From Bashahr, September 22, 1935.
114275. *PODOPHYLLUM EMODI* Wall. Ber-  
beridaceae. Himalayan mayapple.  
From Emodi.  
For previous introduction see 105902.
114276. *POLYGONUM* sp. Polygonaceae.  
From Lahul, August 1935.
114277. *RUMEX* sp. Polygonaceae.  
No. 62. From Kyuling, October 2, 1935.
114278. *SAUSSUREA JACEA* (Klotzsch) C. B. Clarke. Asteraceae.  
No. 53. From Pin Valley, October 1, 1935. An erect leafy perennial up to 4 feet high, with ovate to oblong-obtuse leaves about 3 inches long and purple flower heads, solitary or in terminal corymbs. Native to the Himalayan region.
114279. *SCROPHULARIA LUCIDA* L. Scrophu-  
lariaceae.  
No. 58. From Kyibar, September 28, 1935. A herbaceous perennial up to 3 feet high, with pinnatisect leaves and few-flowered cymes of small dark-purple flowers. Native to southern Europe and Asia.
114280. *SISYMBRIUM* sp. Brassicaceae.  
No. 46. From Kioto, September 25, 1935.
- 114281 to 114284. *STIPA* spp. Poaceae. Feathergrass.

## 114204 to 114291—Continued.

114281. *STIPA JACQUEMONTII* Jaub. and Spach.

No. 21. From Kyibar, September 28, 1935. A very slender, densely tufted perennial grass about 1 foot high; native to the Himalayan region.

114282 and 114283. *STIPA ORIENTALIS* Trin.

A densely tufted perennial grass with stems up to a foot high; native to Asia.

114282. No. 27-A. From Kyibar, September 27, 1935.

114283. No. 27-B. From Losar, September 23, 1935.

114284. *STIPA PENNATA* L.

No. 1. From Losar, September 21, 1935, at 13,395 feet altitude.

114285. *THEMEDA ANATHERA* (Nees) Hack. Grass. Poaceae.

No. 5. From Wangtoo, Bashahr, October 8, 1935. A tall perennial grass native to India.

114286 and 114287. *TRIGONELLA EMODI* Benth. Fabaceae.

A diffuse, much-branched, herbaceous annual, native to the Himalayas at altitudes of 4,000 to 10,000 feet.

114286. No. 39. From Kyuling, October 2, 1935.

114287. No. 39-A. From Kyibar, September 27, 1935.

114288 to 114290. *TRisetum spicatum* (L.) Richter. Poaceae. Grass.

An erect tufted grass.

For previous introduction see 52889.

114288. No. 24. From Kyuling, October 3, 1935.

114289. No. 36. From Pin Valley, October 1, 1935.

114290. No. 30. From Kyibar, September 27, 1935.

114291. (Undetermined.)

No. 54. From Kloto, September 27, 1935.

## 114292 to 114294.

From Costa Rica. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received March 24, 1936.

114292. *ARACHIS HYPOGAEA* L. Fabaceae. Peanut.

No. 3748. From San Ramon.

114293. *TEPHROSIA* sp. Fabaceae.

No. 3746. From El Paraiso, February 27, 1936.

114294. *PASSIFLORA EDULIS* Sims. Passifloraceae. Purple granadilla.

No. 3763. *Granadillo morado*. From San José, March 7, 1936.

## 114295 to 114302.

From Chile. Seeds presented by Emanuel Elgueta, Estación Experimental de la Sociedad Nacional de Agricultura, Santiago. Received March 25, 1936.

## 114295 to 114302—Continued.

114295. *HORDEUM DISTICHON* L. Poaceae. Barley.

*Plumarcher*.

114296. *HORDEUM VULGARE* L. Poaceae. Barley.

*Crusat*.

114297 to 114302. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

114297. *Florence*.

114298. *Oregon*.

114299. *Richelle*.

114300. No. 1053.

114301. No. 1069.

114302. *Australiano*.

114303. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.

From Costa Rica. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received March 30, 1936.

*Turtle soup beans*.

## 114304 to 114307.

From Honduras. Seeds presented by the research department, at Tela, of the United Fruit Co. Received March 9, 1936.

114304. *ASTROGYNE* sp. Phoenicaceae.

114305. *ASTROCARYUM MEXICANUM* Liebm. Phoenicaceae.

A Mexican palm with a cylindrical spiny stem up to 6 feet high and large pinnate leaves with straight black spines on both sides.

114306. *LICUALA* sp. Phoenicaceae.

No. 381.

114307. *THRINAX* sp. Phoenicaceae.

Spineless fan palms of medium height, with terminal orbicular leaves.

114308. *CHLOBOPHYTUM* sp. Liliaceae.

From Madagascar. Plant presented by Miss Baryia Rateaver, Fort Dauphin. Received September 18, 1935. Numbered in March 1936.

## 114309 and 114310.

From Canada. Seeds presented by Prof. John Davidson, Department of Botany, University of British Columbia, Vancouver. Received March 30, 1936.

114309. *DELPHINIUM MENZIESII* DC. Ranunculaceae.

A hardy perennial with simple, slender stems over a foot high, small three- to five-parted leaves, and blue flowers in conical racemes. Native to the northwestern United States and British Columbia.

114310. *RUBUS PARVIFLORUS* Nutt. Rosaceae. White flowering raspberry.

An upright shrub 6 to 8 feet high, with reniform three- to five-lobed leaves 4 to 8 inches across, dense corymbs of small white flowers one-fourth inch in diameter, and red fruits more than half an inch in diameter. Native to western North America.

For previous introduction see 92298.

114311. *MEDICAGO SATIVA* L. Fabaceae.

Alfalfa.

From Germany. Seeds secured by Charles J. Brand, through Albert Eisenhauer, Tauberbischofsheim, Baden. Received March 27, 1936.

Old German Franconian alfalfa.

114312 and 114313.

From South America. Seeds collected by Mrs. Ynes Mexia, collaborator, Bureau of Plant Industry. Received March 31, 1936.

114312 to 114313—Continued.

114312. *CINCHONA* sp. Rubiaceae.

No. 7804. From La Paz, Bolivia, December 7, 1935.

114313. *ERAGROSTIS PERUVIANA* (Jacq.) Trin. Poaceae. Grass.

No. 7774-A. From Peru, Distrito Arequipa, Provincia Islay, south of Mollendo, November 17, 1935. A spreading annual grass with decumbent stems to about 1 foot high. Native to Peru.

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