UNITED STATES DEPARTMENT OF AGRICULTURE



INVENTORY No. 129



Washington, D. C.

Issued May, 1941

PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EX-PLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY, OCTOBER 1 TO DECEMBER 31, 1936 (Nos. 118411-119266)

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INTRODUCTORY STATEMENT

This inventory, No. 129, records the plant material (Nos. 118411-119266) received by the Division of Plant Exploration and Introduction during the period from October 1 to December 31, 1936.

The greater part of this inventory may be considered essentially as a continuation of the preceding inventory, as the agricultural explorers discussed in No. 128, H. L. Westover and F. L. Wellman, Walter Koelz, W. A. Archer, and Raymond Stadelman) continued to send in material during this period from Turkey, India, Brazil, and

western South America, respectively.

Although the general nature of the plant material received from these expeditions remained the same, it is of interest to note, in Dr. Archer's collections from Brazil, the increased proportion of peanut varieties (Arachis hypogaea) and also of other Arachis. This chief objective of Dr. Archer's South American trip was to get material of as many as possible of the wild species of Arachis, and also of the cultivated forms of the common peanut, for the particular use of Department specialists.

The genetics and pathology of the cultivated snapdragon have received much attention during the past decade, and the interests of specialists working with these projects are being served by the introduction of seeds of nearly 50 species and varieties of Antirrhinum (Nos. 118940-118986), presented by the Director of the Kaiser Wilhelm

Institute, Müncheberg, Germany.

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The botanical determinations of seeds introduced 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., September 3, 1940.

INVENTORY¹

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.

118411. ZEPHYRANTHES Sp. Amarylli-daceae.

From Mexico. Bulbs purchased from Dr. C. A. Purpus. Zacuapam, Huatusco, Veracruz. Received October 15, 1936.

Salto de Agua. From the high sierra north of the volcano Orizaba.

118412. COCCOCYPSELUM LANCEOLATUM (Ruiz and Pav.) Pers. Rubiaceae.

From Brazil. Seeds collected by Dr. Doris Cochran, Smithsonian Institution, Washington, D. C. Received November 11, 1935. Numbered in October 1936.

A herbaceous creeper, densely pubescent throughout, with opposite, lanceolate, acute leaves, pale-violet flowers in small umbels, and small brilliant blue berries. Native to Peru.

118413. MESEMBRYANTHEMUM. Aizoaceae.

From California. Plants presented by Morris Schick, Glendale. Received October 19, 1936.

A hybrid mesembryanthemum (Mesembryanthemum linguiforme × echinatum), freely branching, forming a low mound of weak terete stems, yellow-green to brightgreen falcate leaves, and light-yellow flowers.

118414. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Mexico. Seeds received through the American Legation, Mexico City, D. F., at the request of W. A. Archer, Bureau of Plant Industry. Received October 20, 1936.

Tabaco Habanero.

Amarylli- | 118415 and 118416. Cassia spp. Caesafpiniaceae.

From Australia. Seeds presented by J. Howard Johnson, St. Peters, South Australia. Received October 13, 1936.

118415. CASSIA EREMOPHILA A. Cunn.

An Australian shrub 8 to 10 feet high, with 2 pairs of long narrow terete leaflets and yellow flowers. Found growing in red sandy soil on limestone at Murray Bridge. The shrub has a long blooming season and the leaves and pods are eaten by stock.

For previous introduction see 113760.

118416. CASSIA STURTII R. Br.

A bushy attractive evergreen shrub 3 to 6 feet high, with pinnate leaves of 3 to 5 pairs of linear to almost obovate leafets and short dense axillary racemes of small yellow flowers. Native to Australia.

118417. Allium sp. Liliaceae.

From Ankara, Turkey. L. Westover and F. L. Wellman, Bureau of Plant Industry. 1936. Received October 7,

No. 940. From the Erzinjan bazar, August 8, 1936. Wild garlic brought in from the mountains.

118418. DILLENIA INDICA L. Dilleniaceae. Indian dillenia.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry. Received June 26, 1936. Numbered in October 1936.

No. 709. From the Saharanpur Gardens, United Provinces, April 21, 1936. A handsome medium-sized tree with a round com-

¹ 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 hotanical descriptions, both technical and economic, seldom

horticultural nomenciature.

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

118418—Continued.

pact crown; the dark-green leaves are 15 inches long and 3 inches wide. The large white flowers are fragrant and very attractive; and the smooth, greenish, heart-shaped fruits, 3 inches long and 4 inches wide, are produced in great profusion, maturing in September and October. The edible part consists of the large fleshy sepals which enclose the carpels and are pleasantly acid. In India the sepals are used in making jelly and cooling drinks and are also used in curries.

For previous introduction see 56791.

118419. JARILLA HETEROPHYLLA (Llave) Rusby. Papayaceae.

rom Mexico. Seeds presented by Dr. Gandra, Department of Agriculture, M ico, D. F. Received October 30, 1936. From Mexico. Mex-

Jarrilla or bonete. A climbing herbaceous perennial about 3 feet high, with a large tuberous root, hastate leaves up to 5 inches long, and subglobose pendent fruits about 1 inch in diameter with short, thick, fleshy appendages. These have a lemonlike odor and are used for making preserves. Native to Morieous. to Mexico.

118420 and 118421.

From Kenya Colony, Africa. Seeds pur-chased fom the Mount Elgon Nurseries, Kitale. Received October 19, 1936.

118420. GLORIOSA VIRESCENS Lindl. simplex L.). Melanthiaceae. Glori Glorylily.

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

For previous introduction see 113843.

118421. HAEMANTHUS MULTIFLORUS Martyn. Amaryllidaceae. Bloodlily.

A tropical African species with 3 to 4 oblong leaves 6 to 12 inches long, on a short separate stem and a straight scape, 1 to 3 feet high, bearing a large umbel of 30 to 100 usually blood-red flowers with long exserted filaments and prominent rellow anthers vellow anthers.

118422 to 118430.

From the State of Minas Geraes, Brazit. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received October 23, 1936.

118422 to 118428. ARACHIS HYPOGAEA Peanut.

Nos. 118422 to 118424 were collected at Lavras, October 19, 1936; cultivated peanuts.

118422. No. 4033.

118423. No. 4045.

118424. No. 4046. I ricola de Lavras. From the Escola Ag-

118425. No. 4047. From Fazenda Morro Redondo near Layras, September 20,

118426. No. 4058. From Lavras, September 20, 1936. A common type in this locality.

118427. No. 4061. From Diamantina, September 23, 1936; grown at Rio Vermelho.

118428. No. 4113. 8428. No. 4113. Cultivated peanuts from Diamantina, September 25, 1936.

118422 to 118430-Continued.

118429 and 118430. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

118429. No. 4080. Volunteer tobacco 5228. No. 1000. Volunteer to bacco found near a house at Mendanhya, September 24, 1936. The plants were 5 feet high; flowers white, tinged or mottled with very pale pink.

118430. No. 4082. From Diamantina, September 24, 1936. Slender plants, 5 feet tall, with sticky leaves and white flowers tinged with pink.

118431. MEDICAGO SATIVA L. Fabaceae. Alfalfa.

From Santiago, Chile. Purchased from W. R. Grace & Cia., New York, N. Y. Re-ceived October 20, 1936.

Huasco variety of Chilean alfalfa.

118432. PHYTOLACCA DIOICA L. Phyto-Pokeberry.

om California. Seeds presented by E. O. Orpet, Santa Barbara. Received May 27, 1936. Numbered in October 1936. From California.

Ombu. An evergreen tree, native to Argentina, which develops, eventually, a thick trunk and a large crown. The slender-stemed leaves are elliptic to oval, and the small greenish-white, inconspicuous flowers are in pendulous racemes. The chief value of this tree is for shade; in its native country it is called "bella sombra" (handsome shada)

For previous introduction see 66817.

118433. Diospyros discolor Willd. Diospyraceae. Maholo.

Plant growing at the United States Plant Introduction Garden, Coconut Grove, Fla. Numbered in October 1936

P. I. G. No. 1238. A medium-sized tree, native to the Philippine Islands, with shining leaves 5 to 10 inches long, pubescent beneath. The velvety, dull-reddish, thin-skinned fruits, 3 inches long and nearly 4 inches in diameter, have firm, rather dry flesh of a rather indefinite sweet flavor and 4 to 8 large seeds.

For previous introduction see 106988.

118434 to 118436. ALLIUM Spp.

From Greece and Turkey. Bulbs collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received Octo-ber 22, 1936. Bulbs collected F. L. Wellman,

118434. ALLIUM SD.

No. 996. From Mount Olympus, Greece, September 9, 1936.

118435. ALLIUM Sp.

No. 993. From the sea beach, 1 km. west of Yalove, Turkey, September 12, 1936. 118436. ALLIUM Sp.

No. 994. From the slopes of Mount Olympus, Greece, September 8, 1936. An ornamental with yellow flowers.

118437 to 118443. HIPPEASTRUM Spp. Amaryllidaceae.

om Brazil. Bulbs purchased by W. A. Archer, Bureau of Plant Industry. Received October 9, 1936. From Brazil.

118437. HIPPEASTRUM EQUESTRE (L. f.) Herb.

No. 3957. From Tres Lagoas, Matto Grosso, August 31, 1936. A cultivated plant with salmon flowers.

118437 to 118443—Continued.

118488 and 118439. HIPPEASTRUM.

Hybrid hippeastrums purchased at São aulo. September 14, 1936. Cultivated Paulo, types.

118438. No. 4015. Flowers dark red.

118439. No. 4016. Flowers pink.

118440. HIPPEASTRUM PSITTACINUM (Ker)

No. 4017. From São Paulo, September 14, 1936. A robust hippeastrum with 6 to 8 strap-shaped leaves about 2 feet long and a 2- to 4-flowered umbel on a stout peduncle. The perianth limb is 4 to 5 inches long, and the segments are applegreen with profuse crimson markings. Native to Brazil.

118441. HIPPEASTRUM CALYPTRATUM (Ker)

No. 4018. From São Paulo, September 14, 1936. A Brazilian hippeastrum with 5 or 6 strap-shaped leaves up to 2 feet long and an equally long peduncle with 2 or 3 pale-yellow flowers with green stripes; the segments are about 1½ inches wide.

118442. HIPPEASTRUM DECORATUM Lem.

No. 4019. A Brazilian hippeastrum closely allied to *Hippeastrum psittacinum*. It has about 10 linear leaves over 2 feet long and large flowers with pale-green segments tipped with purplish red.

No. 4020. A hybrid hippeastrum with white and yellow flowers with red stripes.

118444 and 118445. ARTOCARPUS COMMU-NIS Forst. (Artocarpus incisa L. f.). Moraceae. Breadfruit.

From Trinidad, British West Indies. Root cuttings presented by the manager of the St. Augustine Nursery. Received November 2, 1936.

118444. A white variety.

118445. A vellow variety.

118446. ARTOCARPUS Sp. Moraceae.

om China. Seeds presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad Cienfuegos, Cuba. Received October 30, 1936.

Originally from the Botanical Gardens, Hong Kong, China.

118447. Paeonia sp. Ranunculaceae. Peony.

From Turkey. Roots collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received November 2,

No. 1046. From the mountains 20 km. south of Inebolu, near Samsun, August 14,

118448. Coffea arabica L. Rubiaceae. Arabian coffee.

rom Puerto Rico. Seeds presented by the Agricultural Experiment Station, Maya-guez, and grown at the United States Plant Introduction Garden, Coconut Grove, Fla. Numbered in October 1936. From Puerto Rico.

Variety Erecta. This species, as it grows wild is a handsome small tree, 10 to 15 feet high, with somewhat thin, oblong, glossy leaves 3 to 6 inches long and about

118448—Continued.

one-third as wide, abruptly narrowed to a rather short point at the apex. The fragrant white flowers are clustered in the axis. The variety Erecta is described as having a more upright habit, smaller leaves, and shorter joints than the type and is supposed to be better adapted to situations exposed to wind.

118449. INODES EXUL O. F. Cook. Phoe-Victoria palmetto. nicaceae.

Plants growing at the United States Plant Introduction Garden, Coconut Grove, Fla. Numbered in October 1936.

P. I. G. Nos 7786 and 7787. This is a new palmetto occurring in cultivation in some parts of Texas. It is distinguished from related species by its large size, the deep-green foliage, the thickened branchelts of the inflorescence, the solitary fruit, and the large seed, not wrinkled above nor hollowed out below. This is a .

For previous introduction see 44345.

118450. Styloma sp. Phoenicaceae.

Palm.

From Washington, D. C. Seeds collected at the National Botanic Garden, Wash-ington, by O. F. Cook, Bureau of Plant Industry. Received October 8, 1936.

Fruits ripened in the United States Botanic Garden, October 1936. This is one of the Pacific Island palms, of the group commercially known as Pritchardia, probably from one of the eastern archipelagos—Tabiti, Marquesas, or Hawaii.

The leaves are smaller than those of Styloma pacifica, the segments more deeply divided, and split at the ends. The fruits have a soft fibrous pericarp instead of the thick woody shell of many of the Hawaiian S. eriophora, including a brown tomentum covering the leaf sheaths, petioles, and inflorescenses, and the calyx is not swollen nor indurated. nor indurated.

Faba-118451 to 118463. Arachis spp. Peanut. ceae.

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

118451. ARACHIS HYPOGAEA L.

No. 3963. From Campo Grande, eastern Matto Grosso, September 1, 1936. A cultivated peanut.

118452. ARACHIS SD.

No. 3965. From the streets of Campo Grande, eastern Matto Grosso, Septem-ber 2, 1936. Received under the specific name "rastreiro," for which a place of publication has not been found.

118453 to 118455. ARACHIS DIOGOI Hoehne.

A prostrate herb about 1 foot long, with leaves composed of 4 linear-oblong leaflets and yellow flowers in small axillary clusters. Native to Brazil.

118453. No. 3966. From Campo Grande, eastern Matto Grosso, September 2, 1936. Collected along the streets.

118454. No. 3967. From Fazenda Xarqueada Velha, Campo Grande, eastern Matto Grosso, September 3, 1936. Four pods were double-seeded.

118455. No. 3968. Variety Minor. From Lagoinha, on the road between Campo Grande and Capão, eastern Matto Grosso, September 6, 1936.

118451 to 118463—Continued.

118456. ARACHIS Sp.

No. 3982. From Capão Bonita, eastern Matto Grosso, September 5, 1936. A peanut with tuberlike roots found in a pasture on hard red clay mixed with sand below.

118457. ARACHIS GLABRATA Benth.

No. 3990. From Campo Grande, Matto Grosso, September 9, 1936. Found in rich black earth, in the streets of the town. A dwarf perennial with a glabrous ascending stem, oblong-elliptic leaflets about one-half inch long, and small yellow flowers. Native to Brazil.

118458. ARACHIS sp.

No. 3992. Found growing in sand at Fazenda das Moças, near Campo Grande, Matto Grosso, September 9, 1936.

118459. ARACHIS sp.

No. 3994. Found in sandy soil near Yaraguari, about 60 km. north of Campo Grande, Matto Grosso, September 10, 1936.

118460 to 118463. ARACHIS HYPOGAEA L.

118460 No. 3996. Purchased in a store at Yaraguari, Matto Grosso, September 11, 1936.

Nos. 118461 to 118463 were purchased in the market at Campias, eastern São Paulo, September 15, 1936.

118461. No. 4028.

118462. No. 4029.

118468. No. 4030.

118464. Paspalum notatum Fluegge. Poaceae. Bahia grass.

From Cuba. Seeds presented by R. Lopez Adams, Casa Blanca, through the Division of Forage Crops and Diseases. Received October 2, 1936.

A perennial tropical American grass which has shown promise as a pasture grass in the southern United States.

118465 and 118466. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Brazil. Seeds presented by the Departamento de Produção Vegetal, through W. A. Archer, Bureau of Plant Industry. Received October 20, 1936.

118465. Goiano amarello.

118466. Jolo branco.

118467 to 118506.

From Brazil. Bulbs and seeds collected in the State of São Paulo by W. A. Archer, Bureau of Plant Industry. Received October 5, 1936.

Unless otherwise stated, this material was received as $\sec ds$.

118467 and 118468. ALLIUM SATIVUM L. Liliaceae. Garlic.

Bulbs purchased in the general market at São Paulo, August 21, 1936.

118467. No. 3698. Alho grande. Sweeter and less strong than the ordinary type. A white variety.

118468. No. 3699. Alho grande. Purplish.

118467 to 118506—Continued.

118469 to 118482. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

Nos. 118469 to 118476 were purchased in the general market of São Paulo, August 21, 1936.

118469. No. 3700. Amendoim branca. Seed oblong, integument whitish, pod crooked with prominent crest and deep reticulations and constrictions.

118470. No. 3701. Amendoim tatu. Seed coat pink seed strongly compressed, semicylindrical; pods straight, smooth.

118471. No. 3702. Apparently "tatu" type.

118472. No. 3703. Seed oblong, integument red, pods deeply reticulated and somewhat crooked.

118473. No. 3704. Apparently the same as No. 3701 [P. I. 118470].

118474. No. 3705. Some seeds compressed cylindrical; others oblong and not compressed.

118475. No. 3706. Apparently "tatu" type.

118476. No. 3707.

118477. No. 3730. Seeds grown at the Botanical Garden, São Paulo, and presented by Dr. F. C. Hoehne. Received as Arachis nambyquarae.

118478 No. 3731. From a store, São Paulo, August 23, 1936. A peanut with an oblong seed, pale integument, and a rough crooked pod.

Nos. 118479 to 118482 were collected in a wholesale house at São Paulo, August 25, 1936.

118479. No. 3737. Seeds oblong, integument pale, pods small, dark.

118480. No. 3738. Tatu.

118481. No. 3739. Tatu.

118482. No. 3740. Tatu.

118483. Сапіса РАРАЧА L. Рарауасеае. Рарауа.

No. 3697. Mamão vermelho. A redfleshed papaya from the general market at São Paulo, August 21, 1936.

118484 and 118485. CICER ARIETINUM I.. Fabaceae. Chickpea.

From the general market at São Paulo, August 21, 1936.

118484. No. 3713. Grão de bico nacional.

118485. No. 3714. Grão de grande bico. This is the Spanish "garbanzo." The seeds are roasted and eaten like peanuts.

118486. CICHORIUM INTYBUS L. Cichoriaceae. Chicory.

No. 3727. Catalonha. From a seed store in São Paulo, August 25, 1936. A cultivated vegetable that is used for salads. Introduced from Italy.

118487. Hordeum distiction L. Poaceae. Barley.

No. 3710. Cebada. A cultivated barley from the general market at São Paulo, August 21, 1936.

118467 to 118506—Continued.

Poa-118488 and 118489. ORYZA SATIVA L. Rice.

Cultivated rice from the general market at São Paulo, August 21, 1936.

118488. No. 3708.

118489. No. 3709. Arroz argulho.

118490. Phaseolus lunatus L. Fabaceae. Lima bean.

No. 3733. Feijão branco. From São Paulo, August 23, 1936. From a store

118491 to 118500. PHASEOLUS VULGARIS L. Fabaceae. Common bean.

From the general market at São Paulo, August 21, 1936.

118491. No. 3715. Feijão de vara branca. A climbing bean.

118492. No. 3716. Feijão de vara maron. A climbing bean.

118493. No. 3717. Feijão preto.

118494. No. 3718. Feijão branco.

118495. No. 3719. Feijão chumbinho.

118496. No. 3720. Feijão manteiga riscado.

118497. No. 3721. Feijāo manteiga.

118498. No. 3722. Feijão mulatinho.

118499. No. 3723. Feijão branco miudo. 118500. No. 3724. Feijão côr de vinha.

118501. PISUM SATIVUM L. Fabaceae

3711. Ervilha branca. From the general market at São Paulo, August 21,

118502. SCLEROLOBIUM DENUDATUM Vog. Caesalpiniaceae.

No. 3734. From the Botanical Garden, São Paulo, August 24, 1936. A handsome ornamental tree with leathery leaves composed of 2 to 5 obovate or lanceolate, oblong leaflets 1½ to 4 inches long and terminal panicles of small, yellow, fragrant flowers. Native to southern Brazil.

118508. TRITICUM AESTIVUM L. Common wheat.

No. 3732. Cultivated wheat purchased in a store at São Paulo, August 23, 1936. in a store at all 118504. Vigna sinensis (Torner) Savi. Cowpea.

No. 3712. Feijão frade. From the general market at São Paulo, August 21, 1936. 118505 and 118506. ZEA MAYS L. Poaceae.

Milho pipoco. Cultivated popcorn from the general market at São Paulo, August 21, 1936.

118505. No. 3695. A variety with yellow grains.

118506. No. 3696. A variety with red grains.

118507 to 118555. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

om Venezuela. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received October 23, 1936. From Venezuela.

118507 to 118555—Continued.

Nos. 118507 to 118511. From Yagua, Cara-

118507. No. 257. Habano.

118508. No. 258.

118509. No. 259. Americano and Cubano.

118510. No. 260. Americano.

118511. No. 261.

Nos. 118512 and 118513. From Magdalena, Aragua.

118512. No. 262.

118513. No. 263.

118514. No. 264. From San Joachim, Carabobo.

Nos. 118515 to 118518. From Miranda, Carabobo.

118515. No. 265. 118517. No. 267.

118516. No. 266. 118518. No. 268.

Nos. 118519 and 118520. From El Zimbron (Miranda), Carabobo.

118519. No. 269. Guacharo.

118520. No. 270. Capadare.

Nos. 118521 to 118524. From Hato Viejo, Carabobo.

118521. No. 271. Guacharo.

118522. No. 272. Guacharo.

118523. No. 273. Guacharo and Capadare.

118524, No. 274. Guacharo and Capadare.

Nos. 118525 and 118526. From Salom. Yaracuy.

118525. No. 275. Capadare.

118526. No. 276. Guacharo.

Nos. 118527 to 118529. From Cocorote, Yaracuy.

118527. No. 277. Rabo de gallo negro.

118528. No. 278. Rabo de gallo negro.

118529. No. 279. Rabo de gallo negro. Nos. 118530 to 118533. From Guama,

118530. No. 280. Capadare.

Yaracuy.

118531. No. 281. Rabo de gallo negro.

118532. No. 282. Rabo de gallo negro.

118533. No. 283. Rabo de gallo negro.

Nos. 118534 to 118539. From Yaritagua, Yaracuy.

118534. No. 284. Rabo de gallo negro and Congo.

118535. No. 285. Virginia.

118536. No. 286. Congo.

118537. No. 287. Congo.

118538. No. 288. Congo.

118539. No. 289. Mixed varieties.

Nos. 118540 and 118541, Maporito. From Las Palmitas, Lara.

118540. No. 290. 118541. No. 291.

118542. No. 292. Mix Toro (Duaca) Lara. Mixed varieties from El

118507 to 118555—Continued.

118543. No. 293. Cocuizo and Maporito. From Cordero (Barguisimeto) Lara.

118544. No. 294. Virginia. From Pirita, Falcon.

Nos. 118545 to 118551. From Mirimire, Falcon.

118545. No. 295. Mixed varieties.

118546. No. 296. Negro.

118547. No. 297. Virginia corta.

118548. No. 298. Amarillo.

118549. No. 299.

118550. No. 300. Virginia.

118551. No. 301. Virginia.

Nos. 118552 and 118553. From Capadare, Falcon.

118552. No. 302. Planton.

118553. No. 303. Cola de gallo.

118554. No. 304. Rabo de gallo. From Tocuyo, Falcon.

118555. No. 305. Cocoroteno. From Naguanagua, Aragua.

118556 to 118661.

From the State of Kashmir, India. Seeds and bulbs collected by Walter Koelz, Bureau of Plant Industry. Received October 1, 1936.

Unless otherwise mentioned, the material was received as seeds.

118556 to 118563. ALLIUM spp. Liliaceae. 118556 and 118557. ALLIUM CEPA L.

118556. No. 1143. From Skardo, Baltistan Province, August 15, 1936, at 6,500 feet altitude. A flattened white onion, strong, of good quality, and said to be a good keeper.

118557. No. 1144. From Skardo, Baltistan Province, August 14, 1936, at 6,500 feet altitude. A mixed sample of red and white onions, the two varieties grown in this region.

118558. ALLIUM SATIVUM L.

No. 1140. Asgakpa. Bulbs from Skardo, Baltistan Province, August 14, 1936 at 6,500 feet altitude. Used for flavoring.

118559. ALLIUM sp.

No. 1070. From above Tarakbal, at 10,000 feet altitude in an alpine meadow, July 21, 1936. An ornamental plant about 6 inches high.

118560. ALLIUM sp.

No. 1094. From Burzil, in an alpine meadow at 10,000 feet altitude, August 5, 1936. An ornamental plant with a head of yellow flowers.

118561. ALLIUM sp.

No. 1122. From Sodpur, Baltistan Province, at 7,500 feet altitude, August 10, 1936. A plant 18 inches high with heads of fragrant white flowers; found along a watercourse.

118562. ALLIUM sp.

No. 1105. Bulbs from Burzil, August 6, 1936, at 11,000 feet altitude. A plant about 2 feet high with rosepurple flowers; grows best in dry rocky places.

118556 to 118661—Continued.

118568. ALLIUM Sp.

No. 1057. Pran. From Bandipur, July 29, 1936, at 5,200 feet altitude. An onion described as small but strong scented.

118564. Androsace sp. Primulaceae.

No. 1085. From Charban, August 3, 1936, at 8,000 feet altitude. A plant with a compact rosette of leaves and a flower stalk 1 foot high, with a terminal cluster of flowers.

118565. Androsace sp. Primulaceae.

No. 1088. From a mountain slope, 11,000 feet altitude near Burzil, August 5, 1936. A rock plant 2 inches high, found growing in mats. The flowers are pink, with a darker eye.

118566. Anemone sp. Ranunculaceae.

No. 1098. From an alpine meadow at 10,000 feet altitude, near Burzil, August 6, 1936. A bushy ornamental plant up to 19 inches high, with large, semidouble, yellow or white flowers over an inch across.

across.

118567 to 118569. AQUILEGIA spp. Ranunculaceae. Columbine.

118567. AQUILEGIA VULGARIS L.

No. 1074. From above Tarakbal, July 31, 1936, at 10,000 feet altitude, in a damp fir forest. A every attractive plant nearly 4 feet high, with fragrant flowers 2 inches across; spurs white or tinged rose or purple, petals yellowish.

118568. AQUILEGIA sp.

No. 1082. From near Charban, August 3, 1936, on a dry open slope at 8,000 feet altitude. A plant 18 inches high found growing in clumps with abundant, very fragrant flowers; petals yellow and spurs tipped with rose.

118569. AQUILEGIA sp.

No. 1091. From an alpine meadow near Burzil, at 9,000 feet altitude, August 5, 1936. A plant 18 inches high with very attractive flowers, 1½ inches across; sepals deep blue purple, petals rich wine-colored.

118570. ASTRAGALUS Sp. Fabaceae.

No. 1103. From Burzil, August 6, 1936, at 10,000 feet altitude. A plant 4 feet tall, found in clumps in dry open places. The flowers, whitish tinged with red, are in long spikes.

118571. Brassica OLERACEA VIRIDIS L. Brassicaceae. Kale.

No. 1043. Karum Sag. From Srinagar, July 27, 1936. Purchased in the bazar. The leaves are picked all summer for greens; by autumn the plant may be 5 feet tall.

118572. Brassica RAPA L. Brassicaceae. Turnip.

No. 1136. From Skardo, Baltistan Province, August 12, 1936, at 6,500 feet altitude. Said to be a round, sweet, white turnip of superior quality.

118673. CALTHA PALUSTRIS L. Ranunculaceae. Marshmarigold.

No. 1072. Variety Alba. From above Tarakbal, at 10,000 feet altitude in the dry, rocky bed of a spring freshet, August 1, 1936. A white-flowered form.

118574. CAPSICUM ANNUUM L. Solanaceae. Common redpepper.

No. 1050. Marzuwangun. From Srinagar, July 27, 1936. Seeds taken from dried fruits purchased in the bazar. Fruits to 6 inches long, sharp, red, and 1½ inches wide.

118575. CHENOPODIUM ALBUM L. Chenopodiaceae.

No. 1051. Ostahak. Seeds purchased in the market at Srinagar, July 27, 1936. Plant over 6 feet high; leaves used as a potherb.

For previous introduction see 115889.

118576 to 118578. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.

Il8576. No. 1004. Tarbuz; handvend.
From Dal Lake, July 19, 1936. Fruit subglobose, 14 inches long, dark green with thick rind and pink flesh; fairly sweet, but with large air spaces. The plants are grown on rafts in the water; the floating rafts are made by piling dirt and pond weeds, bulrushes, cattails, etc., on sticks, and the ripe fruits often seem half in the water.

118577. No. 1039. Handwend. From Srinagar, July 25, 1936, at 5,200 feet altitude. Fruit globose, 14 inches long, pale green with faint fine mottling; flesh particularly sweet and air spaces particularly large. Grown on a floating raft in Lake Dal.

118578. No. 1045. Handwend. From the market at Srinagar, July 27, 1936. Fruit dark green, 10 inches in diameter; rind tough and hard; flesh sweet and very seedy; seeds red and black.

118579. Codonopsis sp. Campanulaceae.

No. 1081. From Gurez, August 2, 1936, at 8,500 feet altitude. Plant grows 3 feet high in dry or damp open situations and has attractive bell-like, purple-blue

118580. COLUTEA Sp. Fabaceae.

No. 1108. From Sodpur, Baltistan Province, August 10, 1936, on a dry slope at 7,000 feet altitude. A shrub up to 5 feet high, with thick glaucous pinnate leaves and yellow flowers, but it is chiefly interesting for the large inflated pods that remain till winter.

118581. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

No. 998, Karbuza. From Srinagar, July 17, 1936, at 5,000 feet altitude. Fruits 18 inches long, ellipsoid, yellow, decidedly but sparsely netted, fragrant and of fair flavor. Its chief quality is its adaptability to wet conditions. Grown on the floating raft gardens in Lake Da1

118582. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

No. 1046. Sarda. Fruit bought in the bazar at Srinagar, July 27, 1936, but probably of western origin. Fruit yellow, nearly smooth, elongate or round, 1 foot long; fragrant with thick sweet flesh.

118583. CUCUMIS SATIVUS L. Cucurbita-Cucumber. ceae.

No. 1007. From Dal Lake, July 20, 1936. Fruit 2 feet long and 4 inches through, smooth, pale green, becoming netted and golden brown when ripe. Plants grown on floating rafts.

265023-41-

118556 to 118661—Continued.

118584. CUCUMIS SATIVUS L. Cucurbita-Cucumber. ceae.

No. 1059. From Bandipur, July 31, 1936. A wild fruit, the shape and size of an egg, pale green, and the pulp not acid.

118585. DAUCUS CAROTA L. Apiaceae.

No. 1134. Wapalu. From Skardo, Baltistan Province, at 6,500 feet altitude, August 12, 1936. Probably a mixture of two extremes; one yellow, one white, but both woody and watery.

118586. DELPHINIUM Sp. Ranunculaceae. Larkspur.

No. 1063. From above Bandipur, July 30, 1936, in a pine forest. A very attractive plant 3 feet high, with sky-blue flowers; growing on a dry rocky slope.

118587. DIANTHUS Sp. Silenaceae.

No. 1064. From above Bandipur, July 20, 1936. Plants 19 inches high with large, attractive, unscented white flowers. Found growing in clumps on a dry rocky slope near a pine forest.

118588. DIANTHUS sp. Silenaceae.

No. 1129. From Skardo, Baltistan Province, at 6,500 feet altitude, August 12, 1936. Plant 1 foot high with narrow glaucous basal leaves and white single flowers 1½ inches across. Found on dry open plain.

118589. EPHEDRA Sp. Gnetaceae.

1084. From Peshwari, at 8,500 feet altitude, August 4, 1936. An ornamental plant 6 inches high, laden with red berries, found growing on a dry open slope.

118590. EREMURUS HIMALAICUS Baker. Liliaceae. Himalayan desertcandle. Liliaceae.

No. 1087. From Mimarg, August 4, 1936, at 8,500 feet altitude. Plants 5 feet high, with creamy white flowers.

118591. Fragaria sp. Rosaceae.

No. 1071. July 31, 1936. From above Tarakbal at 10,000 feet altitude. Plants 6 inches high, with pleasant crimson fruits one-half inch in diameter.

118592. Fritillaria sp. Liliaceae.

No. 1096. August 5, 1936. From Burzil, in alpine meadows at 10,000 feet altitude. Bulbs of plants $2\frac{1}{2}$ to 3 inches high.

118593. GENTIANA Sp. Gentianaceae.

No. 1104. From Burzil, August 6, 1936, at 10,000 feet altitude. Plants 18 inches high, with attractive wine to purplish flowers. Found growing in rather dry places.

118594. IMPATIENS sp. Impatientaceae.

No. 1077. August 1, 1936. From Karagbal, at 8,000 feet altitude. Attractive plants over 3 feet high, covered with a succession of large rose-colored flowers 1 by 1½ inches wide; often found on dry open ground in pure colonies.

118595. IMPATIENS Sp. Impatientaceae.

No. 1068. July 31, 1936, above Tarakbal 10,000 feet altitude. Plants 3 feet high, found in pure colonies on dry ground in openings in fir forest. The attractive deep old-rose flowers, 1 to 1½ inches across, are borne in clusters.

118596 to 118599. IRIS supp. Iridaceae.

118596. IRIS KUMAONENSIS Wall.

No. 1099. From Burzil, August 5, 1936, in alpine meadows at 10,000 feet altitude.

For previous introduction see 110098. 118597. IRIS Sp.

No. 1060. From Bandipur, July 30, 1936. A wild iris of the Apogon section.

118598. IRIS Sp. No. 1013. From Partan, July 22, 1936, at 5,000 feet altitude. Plants 4 feet high growing in semishade on damp ground, with several flowers on each stalk; Apogon section.

118599. IRIS sp.

No. 1014. From Partan, July 22, 1936, at 5,000 feet altitude. Plants in masses, often filling the whole roadside; clusters up to 2½ feet high; Apogon section.

118600. JUGLANS REGIA L. Juglandaceae. Persian walnut.

No. 1080. From Gurez, Kashmir, August 2, 1936, at 8,500 feet altitude. Stunted trees usually not over 25 feet high and 1 foot in diameter, found in groves in ravines along the river on the isolated slopes that have otherwise practically no trees. The season is short, and the winters even said the workers. the winters are said to be very cold.

118601 to 118604. LACTUCA spp. Cichoriaceae. Lettuce.

118601. LACTUCA SATIVA L.
Garden lettuce.

No. 1127. Dum. From Skardo, Baltistan Providence, August 12, 1936, at 6,500 feet altitude. A native head lettuce, now going to seed; plants 3 feet high, seeds white.

118602. LACTUCA Sp.

No. 1055. From Bandipur, July 29, 1936.

118603. LACTUCA Sp.

No. 1062. July 30, 1936. Above Bandipur in pine forest at 7,000 feet altitude. A wild plant 3 feet high, with purple flowers.

118604. LACTUCA Sp.

No. 1126. Dum. From Skardo, Baltistan Province, August 12, 1936, at 6,500 feet altitude. A native head lettuce, now going to seed; plants 3 feet high, seeds black.

118605. ALTHAEA ROSEA (L.) Cav. Malvaceae. Hollyhock,

No. 1053. From Bandipur, July 29. 1936, at $5{,}200$ feet altitude.

118606. LAVATERA Sp. Malvaceae.

No. 1075. From Karagbal, August 1, 1936, at 8,000 feet altitude. A very attractive plant, 4 feet high, covered with lovely rose-pink flowers 3 inches across. Found growing in clumps and not so scraggly as most of our mallows. Tolerant of heat and drought.

118556 to 118661—Continued.

118607. LLOYDIA sp. Liliaceae.

No. 1095. From Burzil, August 5, 1936, on a mountain slope at 11,000 feet altitude. An onionlike plant 9 inches high; flowers probably yellowish with purple markings.

118608 to 118610. LONICERA spp. Caprifoliaceae.

118608. LONICERA Sp.

No. 1109. August 10, 1936. From above Sodpur, Baltistan Province, at 12,000 feet altitude, on a dry slope along a stream. A well-formed attractive shrub 8 feet high, with small palegreen leaves and lovely orange to orange red bervies. ange-red berries.

118609. LONICERA Sp.

No. 1110. August 10, 1936. From above Sodpur, Baltistan Province, at 12,000 feet altitude, on dry ground. A well-formed shrub 4 feet high, with stiff, bristly-edged leaves and attractive orange berries.

118610. LONICERA Sp.

No. 1118. August 10, 1936. From above Sodpur, Baltistan Province, at 12,000 feet altitude on a dry slope. An ornamental well-branched shrub 4 feet high, with attractive red berries.

118611. LYCOPERSICON ESCULENTUM Solanaceae. Tomato.

No. 1006. From Dal Lake, July 19, 1936. Red fruits 1½ inches in diameter, flattened to one-half inch. Grown on the floating rafts along with cattails and bulrushes.

118612. MALVA SYLVESTRIS L. Malvaceae.

Skardo, No. 1124. From Baltistan Province, August 11, 1936, in a garden at 6,500 feet altitude. A cultivated bushy plant 3 feet high, with rose-purple flowers 1½ to 2 inches across.

118613. MECONOPSIS Sp. Papaveraceae.

No. 1100. From Burzil, August 5, 1936, at 10,000 feet altitude. A plant 2 feet high, which grows under ledges or in the open; flowers blue-purple or tinged with wine red.

118614. MEDICAGO SATIVA L. Fabaceae Alfalfa.

No. 1154-A. From Skardo, Baltistan Province, August 15, 1936, at 6,500 feet altitude. Said to be very good.

118615. MELILOTUS Sp. Fabaceae.

No. 1154-B. From Skardo, Baltistan Province, August 15, 1936, at 6,500 feet altitude. A form with yellow flowers; "said to be poisonous unless watered be-fore it is fed to stock."

118616. MEDICAGO SATIVA L. Fabaceae.

No. 1154-C. From Skardo, Baltistan Province, August 15, 1936, at 6,500 feet altitude; said to be Gligiti in origin and to give three or four cuttings a year.

118617. MEDICAGO SATIVA L. Fabaceae

No. 1154-D. From Skardo, Baltistan Province August 15, 1936, at 6,500 feet altitude; said to be a tall Yarkand sort.

118618. MEDICAGO SATIVA L. Fabaceae.
Alfalfa.

No. 1056. From Bandipur, July 29, 1936. An alfalfa that becomes 6 feet high; said to be an excellent fodder.

118619. Momordica Charantia L. Cucurbitaceae. Balsam-pear.

No. 1040. Karela. From Srinagar, July 26, 1936, at 5,200 feet altitude. Fruit 6 inches long, tender and only moderately bitter; watery with large flattened tubercules.

For previous introduction see 116939.

118620. MOMORDICA sp. Cucurbitaceae.

No. 993. Kakari. From Lahore, Punjah, July 14, 1936. A rather top-shaped fruit 2 inches in diameter, papillose, green turning yellow, while the seeds are in a red matrix. The bitter fruit is used as a vegetable.

118621 to 118623. Morus spp. Moraceae. Mulberry.

From Skardo, Baltistan Province, August 12 to 14, 1936, at 6,500 feet altitude. 118621. MORUS SD.

No. 1128. Fruit 1 to 1½ inches long, resembling a loganberry in form, color, and taste. One of the best mulberries found.

118622. MORUS Sp.

No. 1135. Fruit 1 inch long and onehalf inch wide, white with large druplets; sweet and rich-flavored.

118623. MORUS sp.

No. 1146. Fruit 1½ inches long and five-eighths of an inch wide, lavender purple to black, resembling a blackberry. Seeds small and inconspicuous. Fruit very sweet.

118624. MYRICARIA sp. Tamaricaceae.

No. 1116. From Sodpur, Baltistan Province, August 11, 1936, at 7,000 feet altitude, along a lake. An ornamental shrub about 6 feet high, with long graceful branches, small, thick, pale-green leaves, and terminal spikes of pink flowers.

118625. MYRICARIA sp. Tamaricaceae.

No. 1120. From Sodpur, Baltistan Province, August 10, 1936, at 12,500 feet altitude, along a stream. A useful ornamental which resembles the tamarisk in form, but has larger leaves.

118626. MYOSOTIS SYLVATICA Hoffm. Boraginaceae. Forget-me-not.

No. 1067. From above Tarakbal, July 31, 1936, at 10,000 feet altitude.

118627. NARCISSUS Sp. Amaryllidaceae.

No. 1058. Bulbs from Srinagar, July 30, 1936. Said to be native.

118628. Ocimum sp. Menthaceae.

No. 1047. From the market at Srinagar, July 27, 1936.

118629. OCIMUM sp. Menthaceae.

No. 1048. From the market at Srinagar, July 27, 1936.

118556 to 118661—Continued.

118630 to 118632. Papaver spp. Papaveraceae. Poppy.

118630. Papaver somniferum L. Opium poppy.

No. 1132. Lampan. From Skardo, Baltistan Province, August 12, 1936, at 6,500 feet altitude. A variety with large, double, crimson flowers 3 to 4 inches across.

118631. PAPAVER RHOEAS L.

No. 1125. From Skardo, Baltistan Province, August 12, 1936, at 6,500 feet altitude. A cultivated annual 3 feet high, with fully double, deep crimson to pink flowers 2 inches across. Said to have come from Iran (Persia).

118632. PAPAVER SOMNIFERUM L. Opium poppy.

No. 1133. From a garden at Skardo, Baltistan Province, August 12, 1936, at 6,500 feet altitude. Said to be an annual with double pink flowers of medium size.

118633. PARAQUILEGIA sp. Ranunculaceae.

No. 1093. From Burzil, August 5, 1936, at 11,000 feet altitude. Plants growing in clumps on the mountain peak; flowers probably pale blue purple.

118634. PISUM SATIVUM L. Fabaceae. Pea.

No. 1141. Pokshang. From Skardo, Baltistan Province, August 14, 1936, at 6,500 feet altitude.

118635. PLANTAGO OVATA Forsk. Plantaginaceae.

No. 1049. Ismogul. From the market at Srinagar, July 27, 1936. An annual plantain, the seeds of which are used medicinally. Native to the Mediterranean region.

For previous introduction see 5441.

118636. POLEMONIUM Sp. Polemoniaceae.

No. 1079. From Gurez, August 2, 1936, at 8,500 feet altitude. Plant 3½ feet high, found on damp ground in both open places and shade. The terminal clusters of large blue-purple flowers are very attractive.

118637. PORTULACA Sp. Portulacaceae.

No. 1131. From a garden at Skardo, Baltistan Province, August 12, 1936, at 6,500 feet altitude. The flowers of this species here are all alike; nearly 2 inches across, deep rose magenta with a white throat.

118638. Prangos sp. Apiaceae.

No. 1097. Palangos. From Peshwari. August 3. 1936, at 8,500 feet altitude. A bushy plant with long, finely divided basal leaves and a flower stalk 3 feet high, with yellow flowers. When dry the plant is cut for fodder and is said to be relished by all stock except horses. Found on dry hillsides and said to be tolerant of heat, drought, and low temperatures.

118639 to 118643. PRIMULA spp. Primulaceae.

From near Burzil, August 5, 1936, along streams.

118639 to 118643-Continued.

118639. PRIMULA Sp.

No. 1089. Plant 3 feet high, with blue-purple or purple flowers with yel-low eyes, in heads 2 inches across; found at 9,000 feet altitude.

118640. PRIMULA SD

 $N_0,\ 1090.$ Plant 3 feet high, flowers probably white, tinged with pink; found at $10,\!000$ feet altitude.

118641. PRIMULA SD.

 $N_0.\ 1092.$ Plant 6 inches high, leaves whitish beneath, flowers not seen; from 11,000 feet altitude.

118642, PRIMULA Sp.

No. 1101. Plant up to 18 inches high, with head of large purplish flowers with lighter eye; very attractive, will grow on high ground, but does best with roots in cold water.

118643. PRIMULA ROSEA Royle.

No. 1102. From 11.000 feet altitude, just below the snow line. A primula that often forms large tufts 4 to 8 inches high, with oblong-obovate or oblanceolate, crenulate, or small-toothed lanceolate, crenulate, or small-toothed leaves and few to many rose-red flowers in a loose head, before the leaves. Native to the western Himalayas.

For previous introduction see 28232.

118644. RIBES sp. Grossulariaceae.

No. 1121. From Sodpur, Baltistan Province, August 11, 1936, at 11,000 feet altitude. A compact bush up to 6 feet high, well-laden with orange-red fruits; sweet but with large seeds; used for jams and jellies. The plant, with its persistent fruit and strong green leaves, is distinctly orangents! ornamental.

118645. Rosa sp. Rosaceae.

No. 1061. From above Bandipur, July 30, 1936, at 6,000 feet altitude. Dense, rounded, free-flowering bushes 5 feet high, growing wild on a dry isolated slope.

118646. Rubus sp. Rosaceae.

No. 1075. From near Karagbal, August 1, 1936, at 9,000 feet altitude, on a dry slope at the edge of a fir forest. Bushes 2 feet high, bearing sweet, fragrant, red fruits one-half inch in diameter.

118647. Rubus sp. Rosaceae.

No. 1086. From Peshwari, August 3, 1936, at 8,500 feet altitude. Plant 1 foot high, found growing in deep shade in fir fotest. The few fruits were red, acid, and about one-half inch in diameter.

118648. NEPETA ERECTA (Royale) Benth. Menthaceae.

No. 1073. Above Karagbal, July 31, 1936, at 10,000 feet altitude. An herb 18 inches tall with ovate or oblong acute leaves and many small blue-purple flowers in axillary or terminal spikes. Found growing in fir forest. Native to the Himalayan region.

118649. SAMBUCUS WIGHTIANA Wall. Caprifoliaceae.

No. 1065. From above Bandipur, July 30, 1936, in pine forest in shade and sun. A shrubby plant with herbaceous stems 4 to 5 feet high, large pinnatifid leaves, and corymbs of creamy, heavy-scented flowers, followed by small, orange, edible berries. Native to India.

118556 to 118661—Continued.

118650. BERGENIA Sp. Saxifragaceae.

No. 1113. From a dry slope above Sodpur, Baltistan Province, August 10, 1936, at 11,000 feet altitude. A perennial with 2 or 3 large shining leaves and a spray of white to pink flowers. The leaves turn red in the autumn. red in the autumn.

Crassulaceae. 118651. SEDUM Sp.

No. 1083. From Charban, August 3, 1936, at 8,000 feet altitude, on a dry open slope. Plants 8 inches high with a rosette of fleshy leaves and pinkish flowers.

118652. SOLANUM MELONGENA L. Solana-Eggplant.

No. 1156. Paghan. From Skardo, Baltistan Province, August 5, 1936, at 6,500 feet altitude. Medium-sized green fruits more or less tinged with purple; of fair quality.

118653. SPINACIA OLERACEA L. Chenopodia-Common spinach. ceae.

No. 1153. From Skardo, Baltistan Province, August 15, 1936, at 6,500 feet altitude. Grown as a potherb.

118654. Spinacia Oleracea L. Chenopodiaceae. Common spinach.

No. 1052. From Srinagar, July 27, 1936. Purchased in the market. Grown as a potherb.

118655. SPIRAEA CRENATA L. Rosaceae Snow spirea.

No. 1117. From Sodpur, Baltistan Province, August 10, 1936, at 12,000 feet altitude, along a stream. An ornamental shrub 7 feet high, with well-formed, graceful branches and dense umbels of small white flowers. Native from southeastern Europe to the Caucasus region.

118656. TROLLIUS sp. Ranunculaceae.

No. 1066. From above Tarakbal, July 31, 1936, at 10,000 feet altitude in alpine meadow. A plant 2 feet high.

118657. VIBURNUM NERVOSUM D. Don. Caprifoliaceae.

No. 1078. From near Karagbal, August 2, 1936, from fruit growing in the open along a stream. A large shrub or small along a stream. A large shrub or small tree with elliptic-oblong, shiny green leaves about 3 inches long and cymes of a few small rose-colored flowers followed by purple-black drupes. Native to the Hima-layas at altitudes of 10,000 to 13,000 feet.

118658. VIOLA sp. Violaceae.

No. 1106. From Deosai Plain, Baltistan Province, in a meadow at 12,000 feet altitude, August 8, 1936. Plants small and bushy, growing in clumps 6 inches across and 2 or 3 inches high. The purple flowers have a white spot on the lower petal and are velned with darker purple.

118659. (Undetermined.)

No. 1115. From Sodpur, Baltistan Province, August 10, 1936, at 7,500 feet altitude. An attractive shrubby perennial up to 5 feet high, which grows on dry or damp ground and, in season, is covered with fine purple flowers in long loose spikes.

118660. (Undetermined.)

No. 1119. From below Sodpur, Baltistan Province, August 11, 1936, at 7,000 feet altitude in a stream bed. An ornamental bush 3 feet high, with thick, pale-green, elliptic leaves and white flowers followed by large orange-red berries.

118661. (Undetermined.)

No. 1107. From Deosai Plain, Baltistan Province, August 7, 1936, at 12,000 feet altitude. An attractive plant 18 inches high, with thick, shiny leaves and long heads of very fragrant white flowers; found growing in clumps.

118662 to 118694.

From the State of Matto Grosso, Brazil. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received October 9,

118662. ACROCOMIA sp. Phoenicaceae.

3987. Bacahuba. From Capão Bonito, September 5, 1936.

118663. Aristolochia sp. Aristolochiaceae.

No. 3961. From Capão Grande, September 1, 1936. A tropical twiner with slender stems, leathery, broad-ovate leaves about 2 inches long, and large yellow solitary flowers. Native to Brazil.

118664. ASPIDOSPERMA Sp. Apocynaceae.

No. 3976. From Fazenda das Moças, near Campo Grande, September 6, 1936.

118665. ATTALEA sp. Phoenicaceae.

No. 3964. Pindoba. From Nova Niponica, August 31, 1936. A small palm 20 feet high, whose leaves are used as forage. 118666. ATTALEA sp. Phoenicaceae.

No. 3988. From Capão Bonito, September 5, 1936.

118668. Beta 118667 and VIILGARIS Common beet. Chenopodiaceae.

Purchased in a shop in Campo Grande, September 9, 1936.

118667. No. 4009. Beterraba vermelha comprida.

118668. No. 4010. Beterraba roxa redonda.

118669 and 118670. Brassica CAPITATA L. Brassicaceae. OLERACEA Cabbage.

Purchased in a shop in Campo Grande, September 9, 1936.

118669. No. 3998, Repolho crespo Milão.

118670. No. 3999. Repolho pé curto de Hollanda.

118671. CAPSICUM ANNUUM L. Solanaceae. Common redpepper.

No. 4008. Pimentão doce da Hespanha. Purchased in a shop in Campo Grande, September 9, 1936.

118672. CARICA PAPAYA L. Papayaceae.

No. 3962. From Campo Grande, September 1, 1936. A cultivated fruit with yellow flesh.

118673 and 118674. CITRI Schrad. Cucurbitaceae. 118674. CITRULLUS VULGARIS Watermelon.

Purchased in a shop in Campo Grande, September 9, 1936.

118673. No. 4013. Melancia de Santa Barbara.

118674. No. 4014. Melancia favorita.

118662 to 118694—Continued.

118675. Cocos sp. Phoenicaceae. Palm.

No. 3986. Collected halfway between Campo Grande and Capão Bonito, September 4, 1936.

118676. TEPHROSIA CANDIDA DC. Fabaceae.

No. 4024. From the Instituto Agronomico, Campinas, September 15, 1936.

118677 and 118678. CUCUMIS SATIVUS L. Cucumber. Cucurbitaceae.

Purchased in a shop in Campo Grande, September 9, 1936.

118677. No. 4011. Pepino pequeño cornichon.

118678. No. 4012. Pepino verde grande.

118679. DAUCUS CAROTA L. Apiaceae.

No. 4007. Cenoura vern prida. Purchased in a sl Grande, September 9, 1936. Cenoura vermelho ½ com-ased in a shop in Campo

118680. FICUS Sp. Moraceae.

No. 3971. From Lagoinho, on the road between Campo Grande and Capão Bonito, September 4, 1936. A large tree whose fruits are hard and green when ripe.

118681. Gossypium sp. Malvaceae

No. 3972. From Boliche Boa Vista, the road between Campo Grande and Capão Bonito, September 4, 1936. 118682. Gossypium sp. Malvaceae. Cotton.

No. 4025. Goyas. Froronomico, Campinas, From the Instituto Agronomico, Campinas, 1936. The fiber is brown. September

118683 and 118684. LACTUCA SATIVA Cichoriaceae. Garden lettuce.

Purchased in a shop in Campo Grande, September 9, 1936.

118683. No. 4005. Alface repolhuda des estações.

118684. No. 4006. Alface romana.

118685 and 118686. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato. Purchased in a shop in Campo Grande, September 9, 1936.

118685. No. 4003. Tomate liso grande.

118686. No. 4004. Tomate grande ver-

118687. MELANCIUM CAMPESTED Naud. Cucurbitaceae.

No. 3959. From Campo Grande, September 1, 1936. A decumbent annual with 3- to 5-lobed leaves about 2 inches long and small yellow flowers. The vine and fruit resemble those of the watermalon, and the fruit is sweet scented. Native to Brazil.

118688. OPUNTIA Sp. Cactaceae.

melho.

No. 3958. From Campo Grande, September 1, 1936. A native arborescent species which endures freezing.

118689. PASSIFLORA ALATA Curtis. Passionflower. floraceae.

No. 3960. From Campo Grande, September 1, 1936. An evergreen climber with winged stems, oval to ovate entire leaves, large fragrant blue-green flowers, the segments carmine within, and edible fruits about 5 inches long. Native to Brazil.

118662 to 118694—Continued.

118690. Phaseolus vulgaris L. Fabaceae. Common bean,

Feijão amarello manteiga. a shop in Campo Grande, No. 4000. Purchased in a si September 9, 1936.

118691 and 118692. PISUM SATIVUM L. Fa-Pea. baceae.

Purchased in a shop in Campo Grande, September 9, 1936.

118691. No. 4001. Ervilha torta flor branca.

118692. No. 4002. Ervilha ana para grão.

118693. ROLLINIA sp. Annonaceae.

No. 3973. From Lagoinha, near Campo Grande, September 6, 1936.

118694. ROLLINIA Sp. Annonaceae.

No. 3974. From Capão Bonito, September 6, 1936. A medium-sized tree.

118695 to 118715.

From Brazil. Seeds collected by Graham Bell Fairchild. Received October 5, 1936.

118695. BAUHINIA sp. Caesalpiniaceae.

From Cambará, Paraná, August 1936. A small forest tree; flowers not seen, but at this season the tree is a mass of pinkish fluff, very ornamental.

118696. CITRULLUS VULGARIS Schrad. Cu-curbitaceae. Watermelon. curbitaceae.

From Anapolis, Goyaz. melon with small seeds. A very sweet

118697 to 118700. CROTALARIA spp. ceae.

From Anapolis, Goyaz.

118697. A purple-flowered legume.

118698. A legume with small heavy pods.

shrubby ornamental legume with yellow flowers.

118700. [No data.]

118701. EUTERPE sp. Phoenicaceae. Palm.

Collected in Cambará, Paraná.

118702. GALACTIA Sp. Fabaceae.

A silver-leaved legume,

118703. HELIOCARPUS sp. Tiliaceae.

The tropical American genus Heliocarpus is composed of trees and shrubs with usually trilobate leaves and small yellow or greenish flowers. The wood is soft or greenish flowers.

118704. INDIGOFERA sp. Fabaceae.

118705 and 118706. MICONIA spp. Melastoтаселе.

From Anapolis, Goyaz. The miconias are tropical American trees and shrubs with large, prominently veined leaves and rather small white, rose, purple, or yellow flowers in corymbs and panicles.

118705. A shrub with purple flowers.

118706. An ornamental shrub with dark-green leaves, rufous hairy beneath, and spikes of purple berries.

118707. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Anapolis, Goyaz. Collected in an old garden

118695 to 118715—Continued.

118708. Physalis sp. Solanaceae.

From Anapolis, Goyaz. A sweet edible tomatolike fruit.

118709. Passiflora sp. Passifloraceae.

From Anapolis, Goyaz. A large-fruited passionflower.

118710. PITHECELLOBIUM sp. Mimosaceae.

From Cambará, northern Paraná.

118711. RUBUS Sp. Rosaceae.

Anapolis, Goyaz. The fruit is From when ripe, sweet, aromatic, and

118712. TECOMA sp. Bignoniaceae.

August 5, From Cambará. Paraná. 1936.

118713 to 118715 were collected at Nos. Anapolis, Goyaz.

118713. (Undetermined.)

A tree with small pinnate leaves and seed pods in long racemes. Flowers not seen.

118714. (Undetermined.)

A plant with gingerlike red fruits.

118715. (Undetermined.)

A plant with blue flowers.

118716 to 118730.

From Honan, China. Seeds presented by George D. Schlosser, Greenville, Ill. Re-ceived October 15, 1936.

118716. HORDEUM VULGARE COELESTE Poaceae. Six-rowed barley.

A bearded, white, hull-less barley.

118717. HORDEUM VULGARE TRIFURCATUM (Schlecht.) Beaven. Poaceae. Barley.

A white, beardless and hull-less barley.

118718 to 118724. SETARIA ITALICA Beauv. Poaceae.

From the Experiment College farm, Kaifeng. Honan.

118718. [No data.]

118719. Common white millet.

118720. Yellow millet.

118721. Good early millet.

118722. Small yellow millet.

118723. An early millet.

118724. A small yellow millet.

118725 to 118728. TRITICUM AESTIVUM L Common wheat. Poaceae.

From the Experiment College farm, Kaifeng, Honan.

118725. An early, drought-resistant, soft wheat.

118726. No. 12-13. 3726. No. 12-13. A very good and early beardless wheat with strong stems.

118727. No. 124. An early wheat.

118728. A good Chinese wheat.

118729. ZEA MAYS L. Poaceae. Corn.

Yellow corn from Honan, drought-resistant and very early. There are 2 ears on each stalk, and the plant does not grow

118716 to 118730-Continued.

118730. ZEA MAYS L. Poaceae. Corn.

An early white variety of excellent flint corn from north-central China near the Yellow River.

118731 to 118754.

From the Estado de São Paulo, Brazil. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received November 2, 1936.

118731. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

No. 4125. Jambo. October 7, 1936. From the Estação Biologico do Alto de Serra.

118732. Arachis hypogama L. Fabaceae. Peanut.

No. 4126. October 7, 1936. From the peanut oil mill of Giorgi, Picosse & Cia.

118733 to 118754. NICOTIANA spp. Solanaceae. Tobacco.

118733. NICOTIANA ALATA GRANDIFLORA Comes.

No. 4129. Purchased October 8, 1936, from Dierberger & Cia.

118734 to 118753. NICOTIANA TABACUM L. Common tobacco.

Presented by the Instituto Agronomico do Estado de São Paulo, Campinas, October 1936.

118734. No. 4160. Virginia Bright. From the fazenda Santa Eliza, in 1932

118735. No. 4161. São Gonçalo. From Estação Experimental de São Gonçalo dos Campos, Bahia, in 1933.

118736. No. 4162. Yanthi Yaká. From Directorie de Inspecção e Fomento Agricolas, São Paulo, in 1932.

118737. No. 4163. Brazil Bahia. From the Instituto Bahiano de Fumo, Bahia, in 1935.

118738. No. 4164. Cubano. From the Fazenda Santa Eliza, in 1932.

118739. No. 4165. Verpelet. From Estação Experimental de Sao Gongalo dos Campos, Bahia, in 1935.

118740. No. 4166. Georgia. From Escola Superior de Agricultura de Viçosa, Minas Geraes.

118741. No. 4167. Gober Pelos From Buitenzorg, Java, in 1933.

118742. No. 4168. Gober Koenjii From Buitenzorg, Java, in 1933.

118743 to 118745. From Estação Experimental de Canna de Assucar, Piracicaba, São Paulo, in 1933.

118743. No. 4169. Hickory Pryor.

118744. No. 4170. Habano Colorado.

118745. No. 4171. Heavy Drooping Leaf.

118746. No. 4172. *Porsutian*. From Italy in 1933.

118747 to 118749. From Tripoli in 1933.

118747. No. 4173. Fazzani.

118748. No. 4174. Salento.

118749, No. 4175, Tripoli,

118750. No. 4176. *Perustitzia*. From Italy in 1933.

118731 to 118754—Continued.

118733 to 118754—Continued.

118784 to 118758—Continued.

118751. No. 4177. Samsoum. From Italy in 1933.

118752. No. 4178. Goyano. From Estação Experimental de Limeira, São Paulo, 1936.

118753. No. 4179. *Habana*. From Affonso Penna, Bahia, in 1935.

118754. NICOTIANA SYLVESTRIS Spegaz.

No. 4128. Purchased from Dierberger & Cia., São Paulo, October 8, 1936.

118755. CLADRASTIS PLATYCARPA (Maxim.) Mak. Fabaceae.

From Jamaica Plain, Mass. Plant presented by William H. Judd, Arnold Arboretum. Received November 2, 1936.

A deciduous tree up to about 60 feet high, with rather large pinnate leaves and many small white flowers in large upright pyramidal panicles. This is a Japanese relative of the yellow-wood (Cladrastis lutea) of the eastern United States.

118756. MEDICAGO SATIVA L. Fabaceae. Alfalfa.

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

No. 1050. Wild alfalfa, collected October 13, 1936, 39 km. north of Kastamonu.

118757. CORYDALIS DIPHYLIA Wall. Papaveraceae.

From India. Bulbs purchased from Mrs. P. Kohli, Baramula, Kashmir. Received November 3, 1936.

A low herbaceous perennial about 2 feet high, with triternate leaves about 1 inch long and yellowish flowers tipped with purple, in racemes 1 to 2 inches long. Native to the Himalayan region.

118758. Rubus probus Bailey. Rosaceae. Raspberry.

From Puerto Rico. Plants presented by Atherton Lee, Agricultural Experiment Station, Mayaguez. Received November 4, 1936.

The so-called "Queensland" raspberry, which is related to Rubus rosaefolius but is less thorny and has glabrous leaves and pedicels, with usually 7 leaflets which are relatively broader than those of R. rosaefolius. The plant is upright, about 8 feet high, and the canes are not perennial. This is a cultivated plant in Puerto Rico, where it has been grown for some years, and is probably originally from Queensland.

For previous introduction see 66088.

118759. Dactylis glomerata L. Poaceae. Orchard grass.

From New Zealand. Seeds presented by the Canterbury Agricultural College, Lincoln. Received November 4, 1936.

118760. RAPHANUS SATIVUS L. Brassi-

Cocksfoot Akoroa.

caceae. Radish.

From Honan, China. Seeds presented by George D. Schlosser, Greenville, Ill. Received November 3, 1936.

A large fall or winter radish.

118761 to 118765. Callistemon spp. | 118767 to 118781—Continued. Myrtaceae.

Seedlings growing at the United States Plant Introduction Garden, Chico, Calif. Num-Introduction Garden, Cl. bered in November 1936.

118761. CALLISTEMON CITRINUS (Curtis) Skeels.

(Lath house.) No. 90845. Selection No. 1 of P. I.

118762. CALLISTEMON.

Selection No. 1 of P. I. (Arboretum.) No. 90845

118763. CALLISTEMON.

(Lath house.) Selection No. 5 of P. I. No. 90845.

118764. CALLISTEMON.

(Testing beds.) Selection No. 1 of P. I. No. 90847. A handsome shrub of drooping habit that has reached a height of 5½ feet with a spread of 7 feet. The foliage is dense and the individual leaves resemble those of Callistemon acuminatus. The flowers, with very dark red stamens an inch long, are in dense spikes 3 to 5 inches long and appear during April and May. This is a selection from second-generation seedlings of a cross between C. citrinus and C. acuminatus. acuminatus.

118765. CALLISTEMON.

(Testing beds.) Selection No. 3 of P. I. No. 90847.

118766. HAEMANTHUS NATALENSIS Pappe. Amaryllidaceae.

From South Africa. Seeds purchased from the Winton Nurseries, Bonnie Vale, C Province. Received November 9, 1936. Seeds purchased from

A haemanthus with 8 or 9 membranous, bright-green leaves more than a foot long, the lower ones spotted on the back with red-brown. The small flowers, in a very dense globose mass, 3 to 4 inches in diameter, surrounded by several large, deep-purple bracts, are obscured by the long scarlet filaments and bright yellow anthers. Native to southern Africa southern Africa.

118767 to 118781.

om Brazil. Seeds and bulbs collected by W. A. Archer, Bureau of Plant Industry. Received November 2, 1936. From Brazil.

Unless otherwise mentioned, the material was received as seeds.

118767. ACROCOMIA MOKAYAYBA Barb. Rodr. Phoenicaceae. Palm. Phoenicaceae.

No. 4127. From Capão Bonito, Minas Geraes. A pinnate-leaved palm 12 to 20 feet high, with a dense terminal crown of leaves about 6 feet long and linear leaflets. Native to Brazil.

118768. ACROCOMIA sp. Phoenicaceae. Palm.

No. 4059. From Lavras, eastern Minas Geraes, September 20, 1936.

118769. ARISTOLOCHIA GALEATA Mart. and Zucc. Aristolochiaceae.

No. 4073. From near Mendanhya, along a road in eastern Minas Geraes, September 24, 1936. A twining aristolochia allied to A. brasiliensis, with broad cordate leaves about 3 inches long and large solitary flowers, green and dark purple. Native to Brazil.

118770. CORCHORUS CAPSULARIS L. Tilia-Jute.

No. 4038. Vassourão. From the Escola Agricola de Lavras. Minas Geraes, Sep-tember 19, 1936. Used as a substitute for flax.

118771. CUCUMIS MELO L. Cucurbitaceae.

No. 4031. From the market at São Paulo, September 14, 1936. This melon is now arriving from Portugal, being shipped in large quantities by boat. Each fruit is wrapped in cellophane.

118772. FICUS NITIDA Thunb. Moraceae. Fig.

No. 4039. From the Escola Agricola de Lavras, September 19, 1936. A tree 20 feet high; reproduced by cuttings.

118773. FRAGARIA VESCA L. Rosaceae. Strawberry.

No. 4027. From the market at Campinas, eastern São Paulo, September 15,

118774. FREESIA REFRACTA (Jacq.) Klatt. Iridaceae.

No. 4130. Purchased from Dierberger & Cia., São Paulo, October 8, 1936. Flowers were varicolored, pink, white, blue, etc.

118775. GOSSYPIUM PERUVIANUM Cav. vaceae. Cotton.

No. 4081. Rim de Boi. From near Mendanhya, Minas Geraes. Plant 15 feet high, flowers pale yellow tinged with pink.

118776. HIPPEASTRUM ORGANENSE Amaryllidaceae.

No. 4115. From Serra de Piedade, September 1936. Bulbs of a Brazilian hippeastrum with 5 or 6 lorate, purpleglaucous leaves about a foot long and a stout peduncle usually bearing 2 large bright-crimson flowers with a green mark on each segment.

118777. INDIGOFERA ENDECAPHYLLA Jacq. Indigo.

No. 4116. From the Fazenda Gamelleira No. 4116. From the Fazenda Gamelleira of the Secretaria de Agricultura, Bello Horizonte, eastern Minas Geraes, August 24, 1936. An annual or biennial tropical African prostrate legume 2 to 3 feet long, with 7 to 9 oblong leaflets and a dense raceme of violet purple flowers. Used as a cover crop.

For previous introduction see 77296.

118778. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

No. 4070. Near Mendanhya, along a road in eastern Minas Geraes, September 24, 1936; near a long-abandoned camp.

118779. Zea mays L. Poaceae.

No. 4232. Milho cravo. From Lavras, eastern Minas Geraes, September 19, 1936.

118780. ZEPHYRANTHES COMMERSONIANA Herbert. Amaryllidaceae.

From Sierra de Piedade, east-eraes. September 1936. Bulbs No. 4114. No. 4114. From Sierra de Piedade, east-ern Minas Geraes, September 1936. Bulbs of a zephyranthes with 3 or 4 narrow linear leaves about 8 inches long and flowers over an inch long with bright-red limbs, yellow at the base. Native to Argentina and Uruguay.

118767 to 118781—Continued.

118781. ZEPHYRANTHES CARINATA Herbert. Amaryllidaceae. Zephyrlily. Amaryllidaceae.

Bulbs collected along the highway between Diamantina and Guinda, eastern Minas Geraes, March 25, 1936. A eastern Minas Geraes, March 25, 1950. A bulbous perennial with linear leaves and a scape about a foot high, bearing a single rosy flower. Said to be the largest and choicest of the rosy-flowered zephyrillies and blooms in the summer. Native to the West Indies.

For previous introduction see 112351.

118782 to 118790. LYCOPERSICON ESCU-LENTUM Mill. Solanaceae. Tomato.

om Venezuela. Seeds collected by Ray-mond Stadelman, Bureau of Plant Indus-try. Received November 2, 1936.

118782. No. 1. H July 22, 1936. From La Victoria, Aragua,

118783. No. 2. Riñon. From Yaritagua, Yaracuy, at 374 m. altitude, Septem-Yaracuy, at ber 23, 1936.

118784. No. 3. From at 580 m. altitude. From El Cordero, Lara, tude. September 25, 1936. A very small variety.

8785. No. 4. Liso. From Yaritagua, Yaracuy, at 374 m. altitude, September 23, 1936. 118785. No. 4.

118786. No. 5. Jobo. From Yaritagua, Yaracuy, at 374 m. altitude, Septem-Yaracuy, at ber 23, 1936.

118787. No. 6. 450 m. altitude, September 15, 1936.

118788. No. 7. *Isleña*. From Yagua, Carabobo, at 450 m. altitude, September 15, 1936.

118789. No. 8. 8789. No. 8. From Yagua Carabobo at 450 m. altitude September 15, 1936.

118790, No. 9. From Yagua, Carabobo, 450 m. altitude, September 15, 1936.

118791 and 118792. SACCHARUM. Sugarcane. ceae.

From Australia. Cuttings presented by the Bureau of Sugar Experiment Stations, Brisbane, at the request of E. W. Brandes, Bureau of Plant Industry. Received No-vember 10, 1936.

118791. N. G. 15 × 28 N. G. 251.

118792. $Oramboo \times 28 \text{ N. G. } 251.$

118793. HYPARRHENIA RUFA (Nees) Stapf. Poaceae. Jaragua grass.

From São Paulo, Brazil. Seeds presented by J. F. Tippett, New York City, N. Y., through H. N. Vinall, Bureau of Plant Industry. Received November 12, 1936.

A perennial grass, native to Brazil and cultivated there and at other places in the American Tropics. It is a leafy bunchgrass, the tussocks of which become a foot or so in diameter and the numerous leafy culms 6 to 10 feet high. It is primarily a hay grass.

For previous introduction see 54679.

118794. LILIUM BROWNII Poit. Lilia-Browns lily.

From China. Seeds presented by Dr. Andrew Tze. Hong Kong. Received November 13, 1936.

Seed from plants growing wild in the hills of Hong Kong. A Chinese lily with

118794—Continued.

stem 2 to 3 feet high and lanceolate leaves 3 to 5 inches long. The trumpet-shaped flowers, usually solitary but sometimes 2 to 4 together, are 6 to 8 inches long and nearly as wide and are delicately fragrant. The waxy segments are creamy white inside, fading to pure white and tinged with yellow at the base. Outside they are white with brown-purple midribs, the 3 outer ones variably tinged with brownish numble brownish purple.

For previous introduction see 105324

118795 and 118796.

From Nebraska. Seeds purchased from J. B. E. Wernecke, Royal, Nebr. Received November 9, 1936.

118795. AMORPHA CANESCENS Pursh. baceae.

118796. AMORPHA FRUTICOSA L. Fabaceae.
Indigobush.

For previous introduction see 107651.

118797 to 118800. CINCHONA spp.

From Tanganyika Territory, Africa. Seeds presented by the East African Agricultural Research Station, Amani. Received November 11, 1936.

118797. CINCHONA OFFICINALIS L.

A tree, native to the Andes, yielding a bark remarkably rich in quinine which crystallizes readily as quinine sulfate.

For previous introduction see 104220.

118798. CINCHONA PUBESCENS Vahl.

For previous introduction see 104224.

118799. CINCHONA PUBESCENS X OFFICI-NALIS.

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

118800. Cinchona officinalis × pubes-CENS.

For previous introduction see 104222.

118801 to 188808.

From Brooklyn, N. Y. Plants presented by the Brooklyn Botanic Garden, Brooklyn. Received November 16, 1936.

118801. ACTINIDIA CALLOSA Lindl. Dilleniaceae.

A climbing shrub, becoming 20 feet or more long, with conspicuous lenticels on the branchlets. The oval to oblong, serrulate acuminate leaves are 3 to 5 inches long, and the small white flowers, one-half inch across, are followed by ovoid spotted fruits 1 inch long. Native to the Himalayas and southwestern China.

For previous introduction see 114707.

118802. EUPTELEA POLYANDRA Sieb. and Zucc. Tro hodendraceae.

shrub or small tree to 30 feet high, with roundish-ovate, dentate leaves 24 inches long and precocious flowers, co spicuous by their red anthers. Nati con-Native to Japan.

118803. EUROTIA EVERSMANNIANA Stzchégl. Chenopodiacea.

A shrub to about 6 feet high, with small oval or oblong-ovate rigid leaves. Native to western Asia.

118801 to 118808—Continued.

118804. Evodia Hupehensis Dode. Ruta-Evodia.

A common tree in the woodlands of western Hupeh, China where it grows to a height of 20 to 40 feet. It has smooth gray bark, spreading branches, and white flowers in large flat corymbs.

For previous introduction see 90143.

Batalin. HETEROLOBA 118805. LONICERA Caprifoliaceae.

A shrub similar to Lonicera tatsienensis, but with smaller, more hairy leaves. Native to northwestern China.

118806. RUBUS FLOSCULOSUS Focke. Rosa-

A deciduous shrub up to 12 feet in height, with stout erect stems arching at the much-branched top. The pinnate leaves, 4 to 7 inches long, are smooth above and covered beneath with a close white felt. and covered beneath with a close white felt. The small pink flowers, in narrow racemes, 2 to 4 inches long, are succeeded by small, very dark-red or black edible fruits of agreeable flavor. Native to central and western China.

For previous introduction see 66605.

118807. RUBUS XANTHOCARPUS Bur. and Franch. Rosaceae.

A perennial Chinese climber, 1 to 4 feet long, sparsely prickly or unarmed, which dies to the ground every year. The edible fruits are golden yellow. Native to central and western China.

For previous introduction see 92796.

118808. STYRAX DASYANTHA Perkins. Snowbell.

An ornamental Chinese shrub or small tree up to 25 feet high, with oblong-elliptic leaves about 3 inches long and showy white flowers in slender racemes.

For previous introduction see 104208.

118809 to 118823.

om Brazil. Seeds and bulbs collected by W. A. Archer, Bureau of Plant Industry. Received November 6, 1936. From Brazil.

118809. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

No. 4212. From Usina, 9 km. west of Santa Cruz de Rio Pardo, São Paulo, October 12, 1936.

118810. Cocos sp. Phoenicaceae. Palm.

No. 4214. From Usina, 9 km. west of Santa Cruz de Rio Pardo, São Paulo, October 12, 1936.

118811. Cocos sp. Phoenicaceae.

No. 4213. From Usina, 9 km. west of Santa Cruz de Rio Pardo, São Paulo, October 12, 1936.

118812. Gossypium hirsutum L. ceae. Upland cotton.

No. 4200. From Usina, 9 km. west of Santa Cruz de Rio Pardo, São Paulo, October 12, 1936.

8813 to 1188 Amaryllidaceae. 118813 118819. HIPPEASTRUM SDD.

Nos. 118813 to 118818. Bulbs presented by Dr. F. C. Hoehne, Estacão Biologico de Alto de Serra, city of São Paulo, October 8, 1936.

118809 to 118823—Continued.

118813 to 118819-Continued.

118813. HIPPEASTRUM AU TUM (A. Dietr.) Voss. AULICUM

Flowers red; said to be No. 4154. native in this region.

For previous introduction see 118385.

118814. HIPPEASTRUM BLUMENAVIA (Carr.) Sealy.

No. 4153. A hippeastrum allied to H. vittatum, with smaller narrow-oblong to broad oblong-oval petiolate leaves and 4 or 5 white or pale redtinged flowers 2 inches long. Native to southeastern Brazil.

118815. HIPPEASTRUM CALYPTRATUM (Ker) Herbert.

No. 4158.

For previous introduction and description see 118441.

118816. HIPPEASTRUM PSITTACINUM (Ker) Herbert.

No. 4157. A robust hippeastrum with 6 to 8 strap-shaped leaves about 2 feet long and a 2- to 4-flowered umbel on a stout peduncle. The perianth limb is 4 to 5 inches long, and the segments are apple green with profuse crimson markings. Native to Brazil.

118817. HIPPEASTRUM PUNICEUM BARBA-TUM (Herbert) Voss.

No. 4155. A variety with umbels of about 3 white flowers. Native to tropical South America.

118818. HIPPEASTRUM RUTILUM CROCA-TUM (Ker) Baker.

No. 4156. A variety differing from the type in having bright-orange flow-ers, more undulate segments, larger leaves, and a taller stem.

118819. HIPPEASTRUM PSITTACINUM (Ker) Herbert.

No. 4139. Bulbs from Paulo, October 8, 1936. Bulbs from Bututan, São

For previous introduction and description see 118816.

118820. Tritonia hyalina (L.) Baker. Iridaceae.

No. 4118. Bulb's purchased from Dierberger & Cia., city of São Paulo, October 6, 1936. A tritonia with slender or branched stems about 1 foot high; flowers pale salmon, marked with white outside, in a raceme. Native to South Africa.

118821. ZEPHYRANTHES CANDIDA (Lindl.) Herbert. Amaryllidaceae.

No. 4159. Bulbs presented by Dr. F. C. Hoehne, Estacão Biologico de Alto de Serra, city of São Paulo, October 8, 1936. A subtropical white-flowered species with linear leaves a foot long appearing with the flowers; the flowers are often rose tinted on the outside and about 2 inches long. Native to Argentina.

For previous introduction see 112350.

118822. ZEPHYRANTHES Sp. Amaryllidaceae.

No. 4182. Bulbs presented by Augusto Gehrt, city of São Paulo, October 8, 1936. A variety with pink flowers.

118809 to 118823—Continued.

118823. ZEPHYRANTHES CARINATA Herbert.
Zephyrlily.

No. 4119. Bulbs purchased from Dierberger & Cia., city of São Paulo, October 6, 1936

For previous introduction and description see 118781.

118824 and 118825.

From the Union of Soviet Socialist Republics. Scions presented by the Institute of Plant Industry, Leningrad. Received January 18, 1936. Numbered in November 1936.

118824, PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

Shirassky.

Amygdala-118825. Prunus simonii Carr. Simon plum.

118826. Prunus armeniaca L. Amygdalaceae. Apricot.

rom Morocco. Tree presented by H. Bray-ard, Directeur de la Station Experimentale, Marrakech. Received April 9, 1936. Num-bered in November 1936. From Morocco.

Jusseaie No. 13.

118827 to 118895.

From Mexico. Seeds collected by J. H. Kempton, Bureau of Plant Industry. Received November 2, 1936.

118827. CENTAUREA SD. Asteraceae.

From Arroya Rosilla, Durango.

118828 to 118841. DATURA spp. Solanaceae.

From Los Herreras, Durango.

118828, No. 1. 118835. No. 8.

118829. No. 2. 118836. No. 9.

118830. No. 3. 118837, No. 10.

118831. No. 4. 118838. No. 11.

118832. No. 5. 118839, No. 12.

118833. No. 6. 118840. No. 13.

118841. No. 14. 118834. No. 7.

8842 to 118872. EUCHLAENA MEXICANA Schrad. Poaceae. Teosinte.

118842. From Cerro Prieto, Durango.

118843 to 118845. From Nobogame, Chihuahua.

118843. No. 1.

118844. No. 2.

118845. No. 3.

118846. From San Lorenzo, Durango.

118847 to 118849. From Arroya de Tarahumaras.

118847. No. 1.

118848, No. 2.

118849. No. 3.

118850 to 118862. From Nobogame, Chihuahua.

118850. No. 1.

118857. No. 8.

118851. No. 2. 118852. No. 3. 118858. No. 9. 118859. No. 10.

118853. No. 4.

118860. No. 11.

118827 to 118895—Continued.

118842 to 118872-Continued.

118854. No. 5. 118861. No. 12.

118855. No. 6. 118862. No. 13.

118856, No. 7.

118863 to 118872. From Cerro Prieto, Durango.

118863. No. 1. 118868. No. 6.

118864, No. 2. 118869. No. 7.

118865. No. 3. 118870. No. 8.

118866. No. 4. 118871. No. 9.

118872. No. 10. 118867, No. 5.

118873. HORDEUM VULGARE L. Poaceae. Barley.

Piedro. Guanaceri, San near Durango.

118874 to 118876. SENECIO spp. Asteraceae.

From Arrova Rosilla, Durango,

118874. No. 1.

118875, No. 2.

118876. No. 3.

corn.

118877. TRIPSACUM sp. Poaceae.

From near Cienaga Prieta, Chihuahua.

118878 to 118895. ZEA MAYS L. Poaceae. Corn.

118878. From Tarahumara, San Pedro.

October 12, 1936. 118879. From Cienaga Prieta. White

118880. From Cienaga Prieta.

118881, From Ojo Frio.

118882. From Cienaga Prieta.

118883. From Cienaga Prieta.

118884. From Cienaga Prieta.

118885. From Cienaga Prieta.

118886. From Trampas, Durango.

118887. From Trampas, Durango.

118888. From Cienaga Prieta.

118889. From Nobogame.

118890. From Nobogame.

118891. From Nobogame.

118892. From Arroya de Tarahumaras.

118893. From Cienaga Prieta.

118894. From Cienaga Prieta. 118895. From Cienaga Prieta.

118896 to 118904. TRITICUM AESTIVUM Common wheat. L. Poaceae.

om Australia. Seeds presented by Dr. H. Wenholz, Director of Plant Breeding, De-partment of Agriculture, Sydney, November South Wales. Received November 21, From Australia. 1936.

Kenya wheat. From the Glen Innes Experiment Farm; introduced for its high resistance to stem rust.

118896. No. C. 9906. 118901. No. C. 10862.

118897. No. C. 9965. 118902. No. C. 10863.

118898. No. C. 9968. 118903. No. C. 10865.

118899. No. C. 10854, 118904. No. C. 10866.

118900. No. C. 10857.

118905 to 118919. PHASEOLUS VULGARIS L. Fabaceae. Common bean.

Fron the Union of Soviet Socialist Republics. Seeds presented through the Institute of Plant Industry, Leningrad. Received November 18, 1936.

A collection of beans which have proved resistant to mosaic disease and bacteriosis, from the Ukraine and Transcaucasus.

 118905. No. 1458.
 118913. No. 3393.

 118906. No. 1475.
 118914. No. 3688.

 118907. No. 1527.
 118915. No. 4889.

 118908. No. 1571.
 118916. No. 4891.

 118909. No. 3009.
 118917. No. 4904.

 118910. No. 3076.
 118918. No. 6732.

 118911. No. 3078.
 118919. No. 6900.

 118912. No. 1921.

118920 to 118925.

From Turkey. Bulbs and seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received November 13, 1936.

118920. ALLIUM sp. Liliaceae.

No. 1028. Bulbs collected 32 km. east of Chanakkale, September 19, 1936.

118921. ALLIUM sp. Liliaceae.

No. 1019. A mixed collection of bulbs from the mountains 35 km. east of Chanak-kale, September 19, 1936.

118922. CASTANEA SATIVA Mill. Fagaceae. Spanish chestnut.

No. 1025. Purchased in Istanbul; (originally from large trees at Burma). September 30, 1936.

For previous introduction see 103975.

118923. PINUS HALEPENSIS Mill. Pinaceae. Aleppo pine.

No. 1026. From the mountains 17 km. north of Izmir, September 24, 1936.

118924. PISTACIA sp. Anacardiaceae.

No. 1018. From large shade trees in a park at Balikesir, September 20, 1936.

118925. QUERCUS COCCIFERA L. Fagaceae. Kermes oak.

No. 1014. From 7 km. southeast of Kemal Pasha, September 25, 1936. An evergreen shrub or small tree of dense habit with stiff, spiny, broad-elliptic to ovate-oblong, hollylike leaves one-half to 1½ inches long. Native to the Mediterranean region.

118926. PHYLLOSTACHYS sp. Poaceae. Bamboo.

From Canada. Plants presented by J. Basil Keys, Victoria, British Columbia. Received November 24, 1936.

A moderately hardy bamboo obtained several years ago, under the name *Phyllostachys mitis*, by Mr. Keys from a local nursery.

118927. SECURIDACA LONGIPEDUNCULATA Fres. Polygalaceae.

Rhodesia violet-tree.

From Southern Rhodesia, Africa. Seeds presented by R. H. B. Dickson, Maienji, Odzi. Received November 24, 1936.

118927—Continued.

A much-branched divaricate shrub or small tree native to tropical Africa. The coriaceous leaves are ovate-elliptic, and the flowers, in terminal spreading racemes, are rose, shades of purple, or violet and variegated with white.

For previous introduction see 103920.

118928. CITRUS LIMONIA Osbeck. Rutaceae. Lemon.

From the Union of Soviet Socialist Republics; Budsticks presented by A. M. Troyer, Institute of Wet Subtropics, Sukhum, Abkhazia. Received November 24, 1936.

Kusner. A lemon reputed to be considerably more hardy than the Eureka or Lisbon.

118929 to 118932.

From California. Seeds collected in Death Valley by French Gilman, of the National Park Service. Received November 11, 1936. 118929. ARCTOMECON MERRIAMI Coville.

Papaveraceae.

118930. ENCELIOPSIS COVILLEI (A. Nels.) Blake. Asteraceae.

118931. SALVIA FUNEREA M. E. Jones. Menthaceae.

118932. SALVIA PACHYPHYLLA Epling. Menthaceae.

118933 and 118934.

From Peru. Bulbs collected by Mrs. Ynes Mexia, Bureau of Plant Industry. Received November 21, 1936.

118933. HIPPEASTRUM REGINAE (L.) Herbert. Amaryllidaceae.

No. 8211-A. Cebolleta. September 18, 1936, Hacienda San Carlos, Distrito Churubamba, Departamento Huanuco, along the trail from Rio Ysabel to San Carlos, in an open field at 1,450 m. altitude. Flowers crimson with white at the center.

118934, URCEOLINA URCEOLATA (Ruiz and Pav.) Asch. and Graebn. Amaryllidaceae.

No. 8305-A. October 17, 1936. From the Departamento Huanuco, along the left bank of the Rio Huallaza, among rocks in dense forest, at 805 m. altitude. A tender bulbous plant with wide oblong leaves 1 foot long and a solitary scape with an umbel of 4 to 6 nodding canary-yellow flowers striped with pale green. Native to the Andes of Peru.

118935. Cotoneaster sp. Malaceae.

From England. Plants presented by Sir Lionel de Rothschild, St. Swithins Lane, London. Received November 27, 1936.

Received under the specific name "cornubia," for which a place of publication has not been found. Said to be a handsome cotoneaster closely allied to C. frigida, but its much more fructiferous, with larger and brighter berries, and has smaller, more acuminate leaves.

118936 to 118939. CINCHONA spp. Rubiaceae.

From the Philippine Islands. Seeds presented by Arthur P. Fischer, Director of Forestry, Bureau of Forestry, Manila. Received November 23, 1936.

118936. CINCHONA OFFICINALIS L.

For previous introduction and description see 118797.

115936 to 118939—Continued.

118937. CINCHONA PUBESCENS Vahl.

For previous introduction see 118798.

118938. CINCHONA OFFICINALIS X PUBESCENS.

118939. CINCHONA Sp.

118940 to 118986. Antirrhinum spp. Scrophulariaceae. Snapdragon.

From Germany. Seeds presented by Dr. Husfeld, Director, Kaiser Wilhelm Institute, Müncheberg, Mark. Received November 23, 1936.

118940 and 118941. ANTIRRHINUM BAR-RELIERI Bor.

118942. Antirrhinum calycinum Russ.

118943. Antirrhinum Charidemi Lange.

118944. Antirrhinum Chrysothales Font Quer.

118945 to 118954. Antirrhinum Glutinosum Boiss, and Reut.

A wild Spanish antirrhinum.

For previous introduction see 100955.

118945. Alhama (hairy).

118946. Alhama (glabrous).

118947. Alhambra.

118948. Baryacas.

118949. Capileira.

118950. Geniltal.

118951. Silla del Moro.

118952. Mulhacén (Lagerfels).

118953. Orgiva.

118954. Pampaneira (hairy).

118955 and 118956. Antirrhinum Hispanicum Chav.

A wild snapdragon, native to Spain.

For previous introduction see 100956.

118955. Celorico.

118956. Savogia.

118957 and 118958. ANTIRRHINUM LATIFOLIUM Mill.

A wild snapdragon, native to Spain.

For previous introduction see 104924.

118957. Mentone.

118958. Villefranche.

118959. Antirrhinum Linkianum Boiss. and Reut.

Cintra.

118960. Antirrhinum Litigiosum Pau. Chorro.

118961 to 118973. Antirrhinum majus L. Common snapdragon.

For previous introduction see 117320.

118961. Algier.

118962. Bussaco.

118963. Coimbra.

118964. Estremadura.

118965. Loja.

118966. Mancha I.

118940 to 118986—Continued.

118961 to 118973—Continued.

118967. Mancha II.

118968. Marokko.

118969. Ragusa.

118970. Ronda.

118971. Split.

118972. Trier.

118973. Xanen.

118974. Antirrhinum meonanthum Hoffm. and Link.

Pancarbo. A wild antirrhinum native to Spain.

For previous introduction see 100961.

118975 to 118978. ANTIRRHINUM MOLLE L.

118975. Braganza.

118976. Lerida.

118977. Monsec.

118978. Mollissimum.

118979. Antirrhinum orontium L. 20493/49a.

118980. Antirrhinum sempervirens Lapeyr.

118981. ANTIRRHINUM SICULUM Mill.

A wild antirrhinum, native to Spain.

118982. Antirrhinum tortuosum Bosc.

A wild antirrhinum, native to Spain.

For previous introduction see 100963.

118983. ANTIRRHINUM VALENTINUM Font Quer.

A shrubby snapdragon with elliptic or roundish leaves and small white flowers. It is allied to Antirrhinum sempervirens. Native to Spain.

For previous introduction see 100964.

118984. ANTIRRHINUM Sp.

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

118985. ANTIRRHINUM Sp.

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

118986. Antirrhinum sp.

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

118987 to 118998. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

From the State of Rio Grande do Sul, Brazil. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received November 30, 1936.

118987. No. 4221. From Marcelino Ramos, October 19, 1936. A cultivated peanut.

118988. No. 4252. From the market at Porto Alegre, October 22, 1936.

Nos. 118989 to 118998 were purchased in shops in Porto Alegre, October 23, 1936.

118989. No. 4255.

118990. No. 4256. Muido or Commúm.

118991. No. 4257. Muido or Commúm.

118987 to 118998—Continued.

118992. No. 4258.

118993. No. 4259. Said to be volunteer plants.

118994. No. 4260.

118995, No. 4261.

118996. No. 4262.

118997. No. 4263.

118998. No. 4264.

118999. Medicago sativa L. Fabaceae.
Alfalfa.

From Chile. Seeds presented by Salvador Izquierdo S., Santiago. Received November 23, 1936.

Huasco alfalfa. From the northern part of Chile, where it has been cultivated since ancient times.

119000. ARISTOLOCHIA BRASILIENSIS MACROPHYLLA Duchatre. Aristolochiaceae.

From Cuba. Seeds presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum. Received November 25, 1936.

Originally presented by the Forest Botanist, Forest Research Institute, Dehra Dun, United Provinces, India. A stout woody climber with large, gray-green, cordate-reniform leaves. The flowers, difficult to describe, are basically green, with nettings and reticulations of chocolate brown or purplish brown, rather dull on the outer surfaces, but often becoming velvety in patterns on the inner surfaces and deep within the flowers. The upper lip is 5 inches long, projects from the inflated tube like the beak of a bird, and the lower lip expands into a flattened wavy limb 4 to 6 inches across. Native to Brazil.

119001. VITIS POPENOEI Fennell. Vitaceae. Grape.

From Puerto Mexico, Veracruz, Mexico. Seeds presented by Wilson Popenoe, United Fruit Co. Received November 11, 1936.

Totoloche. A slender vine with small to medium, usually cordate-ovate leaves and bunches of 5 to 10 dark maroon-red, thick, and rather tough-skinned fruit, of fair flavor, one-half inch in diameter. Related to Vitis rotundifolia. Native to Veracruz.

119002. CINCHONA sp. Rubiaceae.

From Peru. Seeds collected by Mrs. Ynes Mexia, Bureau of Plant Industry. Received December 4, 1936.

No. 8170-A. Azhar. From the Hacienda Mercedes, Distrito Churubamba, Departamento Huanuca, along the trail to Balsa Playa, through virgin forest on a slope above the Rio Cayumba, at 1,200 m. altitude. A forest tree. 30 m. tall, with the seeds in pale green capsules.

119003 to 119006.

From Istanbul, Turkey. Seeds and plants collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry. Received November 30, 1936..

119003 and 119004. CASTANEA SATIVA Mill. Fagaceae. Spanish chestnut.

From the Inebolu bazar, October 13, 1936.

For previous introduction see 118922, 119003. No. 1042. 119004. No. 1043.

119003 to 119006—Continued.

119005. PAEONIA sp. Ranunculaceae.

No. 1044. Plants collected in the hills between Haydarfrasha and Shile, October 25, 1936.

119006. PISTACIA VERA L. Anacardiaceae. Pistachio.

No. 1059. From the Istanbul bazar, October 24, 1936.

119007 to 119023.

From Brazil. Seeds and bulbs collected by W. A. Archer, Bureau of Plant Industry. Received November 30, 1936.

Nos. 119007 to 119019 were collected at Porto Alegre, Rio Grande do Sul, October 22 and 23, 1936.

119007 and 119008. Amygdalus communis L. Amygdalaceae. Almond.

Cultivated almonds.

119007. No. 4242. 119008. No. 4243.

119009, AVENA SATIVA L. Poaceae. Oats. No. 4266. Cultivated oats.

119010 and 119011. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon,

Locally grown seed.

119010. No. 4244. 119011. No. 4248.

119012 and 119013. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

119012. No. 4249. Seed grown locally; the fruit is said to be large, oblong, with greenish rind.

119013. No. 4246. Melão portuguez. Fruit small, round.

119014. CUCUMIS SATIVUS L. Cucurbitaceae. Cucumber.

No. 4250. Seed grown locally.

119015. CUCURBITA MOSCHATA Duchesne.
Cucurbitaceae.
Cushaw.

No. 4250. Sed grown locally.

119016. CORYLUS AVELLANA L. Betulaceae. Filbert.

No. 4245. Seed imported from Portugal.

For previous introduction see 104742. 119017. Fragaria sp. Rosaceae.

Strawberry.

No. 4253. A cultivated strawberry.

119018. Fragaria vesca L. Rosaceae. Strawberry.

No. 4254. A cultivated strawberry.

119019. JUGLANS REGIA L. Juglandaceae. Persian walnut.

No. 4241. A cultivated thin-shelled variety.

variety.

119020. MEDICAGO ARABICA (L.) All. Fabaceae. Medick.

No. 4228. From Marcelino Ramos, Rio Grande do Sul, October 19, 1936. A prostrate plant found growing on embankments and even in cinders along the railroad track.

For previous introduction see 36136.

119021. MEDICAGO SATIVA L. Fabaceae. Alfalfa.

No. 4265. Purchased in a shop at Porto Alegre, Rio Grande do Sul. Cultivated alfalfa, imported from Argentina.

119007 to 119023—Continued.

119022. SOJA MAX (L.) Piper. Fabaceae. Sovbean.

No. 4251. From the market at Porto Alegre, Rio Grande do Sul.

119023. CALYDOREA CAMPESTRIS (Seub.) Baker. Iridaceae.

No. 4230. From Cruz Alta, Rio Grande do Sul, October 20, 1936. Bulbs of a plant 6 to 9 inches high with 1 to 3 blue flowers one-half inch long. Native to southern Brazil, Uruguay, and Paraguay.

119024 to 119035. TRITICUM AESTIVUM L. Poaceae.

From the Union of Soviet Socialist Republics. Seeds presented by the Administration for Grain and Oil Culture, Saratov Selection Station, Saratov. Received November 24, 1936

119024 to 119026. Erythrospermum.

119024. No. 118.

119025. No. 46/131.

119026. No. 46/112.

119027. Graecum, No. 17/64.

119028 and 119029, Hostianum.

119028, No. 122/76.

119029. No. 0237.

119030 to 119035. Lutescens.

119030. No. 27/36. 119033. No. 434/154.

119031. No. 0329. 119034. No. 1060/10.

119032. No. 527/30, 119035. No. 0121.

119036. Ribes sp. Grossulariaceae.

rom Germany. Plants purchased from Julius Hönings, Neuss am Rhein. Received December 14, 1936.

Rheinland currant

119037. AGAVE ATROVIRENS Karw. Pulque agave. Amaryllidaceae.

From Mexico. Plants presented by Dr. José Figueroa, Instituto Biotecnico Colonia Anahuac, D. F. Received December 15, 1936.

An agave with very large lanceolate leaves up to about 8 feet long and large yellow flowers in open panicles. Native to Mexico, where it is the principal source of pulque.

119038. Brassica OLERACEA CAPITATA Brassicaceae.

From Japan. Seeds purchased from Japan Seed & Plant Co., Tokyo. ceived December 10, 1936. the

Improved Succession Reselected.

119039. Araucaria brasiliana A. Rich. Pinaceae.

om Oklahoma. Seeds presented by Ralph Bienfang, School of Pharmacy, University of Oklahoma, Norman. Received Decem-From Oklahoma. ber 14, 1936.

An evergreen tree native to Brazil.

For previous introduction see 117925.

119040. NAUCLEA ESCULENTA (Afzel.) Merr. (Sarcocephalus esculentus Afzel.). Rubiaceae.

From Africa. Seeds presented by the Di-rector of Agriculture, Freetown, Sierra Leone. Received December 17, 1936.

Sierra Leone peach. From Njala A scandent shrub or tree up to 25 feet high native to tropical Africa. The sharp-pointed elliptical leaves are 2 to 8 inches long, and the white, yellowish, or pale-pink fragrant flowers are in dense heads. The fruiting head, 2 to 4 inches in diameter, is deep red with a brown-granulated surface and a solid edible core which occupies about a quarter of the diameter.

119041 to 119044. CASTANEA CRENATA Sieb. and Zucc. Fagaceae. Japanese chestnut.

From Japan. Plants presented by the Mutual Supply Co., San Francisco, Calif. Received December 28, 1936.

119041. Gin Yose.

119042. Nakade Tamba.

119043. Taisho Wase.

119044. Tayotama Wase.

Ruta-119045. CITRUS LIMONIA OSbeck. Lemon. ceae.

om India. Bud sticks collected by Walter Koelz. Bureau of Plant Industry. Re-ceived December 29, 1936. From India.

No. 1743. Gombru. From Bandrole, Kulu, Punjab, November 14, 1936. The fruit, said to come true from seed, is of large size and will keep for a year in ordinary storage. The attractive, quick-growing tree withstands a temperature of about 22° F.

119046. Crotalaria sp. Fabaceae.

rom the Philippine Islands. Seeds sented by F. W. McCarthy, Iloilo. ceived December 23, 1936. Seeds pre-Re-

A plant which grows and seeds, sometimes in pure river sand, during the dry season which, in Iloilo, sometimes lasts 2 months.

119047 and 119048.

From Africa. Plants presented by the rector of Agriculture, Freetown, Si Leone. Received December 28, 1936.

119047. Ananas comosus (L.) Merr. Bromeliaceae. Pineapple.

A small tender pineapple.

119048. Musa paradisiaca sapientum (L.) Kuntze. Musaceae. Banana. Ranana.

Silver banana.

119049 to 119086. ARACHIS HYPOGAEA L. Fabaceae.

om Brazil. Seeds collected by W. A. Archer, Bureau of Plant Industry. Re-ceived December 7, 1936.

Nos. 119049 to 119051 were purchased in seed stores in Pelotas, Rio Grande do Sul, November 2, 1936.

119049. No. 4306.

119050. No. 4321.

119049 to 119086—Continued.

119051. No. 4323

Nos. 119052 to 119086 were strains presented by Dr. Grosman, Instituto Borges de Medeiros, Porto Alegre, Rio Grande do Sul.

119052. No. 4364. 119070. No. 4382. 119053, No. 4365. 119071. No. 4383. 119054. No. 4366. 119072. No. 4384. 119055. No. 4367. 119073. No. 4385. 119056. No. 4368. 119074. No. 4386. 119057. No. 4369. 119075, No. 4387. 119058. No. 4370. 119076. No. 4388. 119059. No. 4371. 119077. No. 4389. 119060. No. 4372. 119078. No. 4390. 119079. No. 4391. 119061. No. 4373. 119062, No. 4374. 119080. No. 4392. 119063. No. 4375. 119081. No. 4393. 119064. No. 4376. 119082. No. 4394. 119065, No. 4377. 119083. No. 4395. 119066. No. 4378. 119084. No. 4396. 119067. No. 4379. 119085. No. 4397. 119068. No. 4380. 119086. No. 4398. 119069, No. 4381,

119087. Tephrosia vogelii Hook. Fabaceae.

From Africa. Seeds purchased from the Mount Elgon Nurseries, Kenya Colony. Received December 5, 1936.

Variety Alba. A white-flowered variety.

119088 and 119089. POLYTOCA spp. Poaceae. Grass.

From Java. Seeds pr Botanic Gardens, December 4, 1936. Seeds presented by the Director Buitenzorg. Received

119088. POLYTOCA DIGITATA (L. f.) Druce. A tall branching grass, native to India.

119089. POLYTOCA MACROPHYLLA Benth.

A perennial grass up to 10 feet high. Native of the Louisiade Archipelago.

119090 to 119127

From Brazil. om Brazil. Seeds and roots collected by W. A. Archer, Bureau of Plant Industry. Received December 2, 1936.

Unless otherwise stated, this material was collected in the State of Rio Grande do Sul and was received as seeds.

119090. ALLIUM CEPA L. Liliaceae. Onion.

No. 4317. Cebolas peras, a pear-shaped onion. Purchased in a store at Pelotas, November 2, 1936.

119091. CICER ARIETINUM L. Fabaceae.

No. 4361. Presented by the Instituto Borges de Medeiros, Viamão, near Porto Alegre, November 3, 1936.

to 119096. CITRULLUS VULGARIS Schrad. Cucurbitaceae. Watermelon.

Purchased in stores at Pelotas, November 2, 1936.

119092. No. 4307.

119093. No. 4308.

119090 to 119127—Continued.

119092 to 119096-Continued.

119094. No. 4309. Melancia americana.

119095. No. 4310. Melancia rei de carlo.

119096. No. 4311. Melancia valencia.

119097. ARECASTRUM ROMANZUFFIANA Becc. (Cocos romanzoffiana Palm.

No. 4269. From the garden of the Hotel Grande, Porto Alegre, October 29, 1936. A palm, native to Brazil, with an unarmed trunk about 20 feet high and 1 foot in diameter, bearing a crown of plumelike leaves 12 to 15 feet long. The fruit is a pale-orange drupe about the size of a large acorn, enclosing a bony seed which has 3 eyes near the base eves near the base.

For previous introduction see 94765.

119098 and 119099. CUCUMIS MELO L. Cu-Muskmelon. curbitaceae.

Purchased in stores at Pelotas, November 2, 1936.

119098. No. 4318. Melão banana.

119099, No. 4319. Melão carvalhe.

119100. CUCURBITA MAXIMA Duchesne. Cu-Squash. curbitaceae.

No. 4314. Abobora para porco. Purchased in a store at Pelotas, November 2, 1936. A forage pumpkin.

Duchesne. 119101. CUCURBITA MOSCHATA Cucurbitaceae. Cushaw.

No. 4316. Abobora menina. Purcha in a store at Pelotas, November 2, 1936. Purchased

119102. CUCURBITA PEPO L. Cucurbitaceae. Pumpkin.

No. 4315. Aboboro Verde Paris. Purchased in a store at Pelotas, November 2, **1936**.

119103. Fragaria sp. Rosaceae Strawberry.

4320. Purchased in a store at Pelotas, November 2, 1936.

119104 and 119105. LYCOPERSICON ESCULEN-TUM Mill. Solanaceae. Tomato.

Purchased in a store at Pelotas, November 2, 1936.

119104. No. 4312. Perfeicão.

119105. No. 4313. Retiro. Apparently a local selection by the Retiro nursery.

119106 and 119107. NICOTIANA TABACUM L. Solanaceae. Common tobacco. Solanaceae.

106. No. 4211. Volunteer tobacco from the streets in Santa Cruz do Rio Pardo, State of São Paulo, October 12, 1936. Plants 6 feet high; inflorescence resinous, but not the stems or leaves; flowers pale greenish at first, changing to pink on lip. 119106. No.

119107. No. 4220. From Marcelino Ramos. October 10, 1936. Plants 1 to 3 feet high; corolla pale greenish white below, lip pure white inside; stem and leaves resinous.

Faba-119108 to 119126. PHASEOLUS spp. Bean.

Presented by the Instituto Borges de Medeiros, Viamão, November 3, 1936.

119108 and 119109. PHASEOLUS CALCARA-TUS Roxb. Rice bean.

119108. No. 4345.

119109. No. 4355.

119090 to 119127—Continued.

119108 to 119126-Continued.

119110 and 119111. PHASEOLUS LUNATUS L. Lima bean.

A variety which produces bacterial nodules of 5 to 6 cm. in diameter on the roots.

119110. No. 4362. A variety with black and white seeds.

119111. No. 4363. A variety with red and white seeds.

119112 to 119126. PHASEOLUS VULGARIS L. Common bean.

119112. No. 4344. 119120. No. 4353. 119113. No. 4346. 119121. No. 4354.

119114. No. 4347. 119122. No. 4356.

119115. No. 4348. 119123. No. 4357.

119116. No. 4349. 119124. No. 4358. 119117. No. 4350. 119125. No. 4359.

119117. No. 4350. 119125. No. 4359. 119118. No. 4351. 119126. No. 4360.

119119. No. 4352.

119127. HERBERTIA PULCHELLA Sweet. Iridaceae.

No. 4274. From the Escola Aprendirado Agricola do Rio Grande do Sul; near Pelotas, October 31, 1936. A South American plant allied to *Tigrida*, with about 4 long narrow leaves 3 to 6 inches long and several fugitive blue flowers from a single terminal spathe. The outer flower segments are marked with a central white line.

119128 to 119139. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From China. Seeds presented by Raymond T. Moyer, Oberlin Shansi Memorial Schools. Taiku, Shansi. Received December 17, 1936.

A collection of drought-resistant winter wheats.

 119128. No. 33.
 119134. No. 204.

 119129. No. 87.
 119135. No. 298.

 119130. No. 140.
 119136. No. 1035.

119131. No. 169. 119137. No. 1050. 119132. No. 171. 119138. No. 1274.

119133. No. 203. 119139. No. 1376.

119140 to 119150.

From Brazil. Seeds and bulbs collected by W. A. Archer, Bureau of Plant Industry. Received December 15, 1936.

This material was collected in the State of Rio Grande do Sul and, unless otherwise mentioned, was received as seeds.

119140 and 119141. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

From Rio Pardo, November 7, 1936.

119140. No. 4406.

119141. No. 4407.

119142. CANNA sp. Cannaceae.

No. 4423. From wasteland near Rio Pardo, November 8, 1936. Plants 3 feet high, with orange-red flowers; very common in this State. 119140 to 119150—Continued.

119143 and 119144. From the fazenda of Col. José Antonio, Pereira Rego, 23 km. east of Rio Pardo, November 8, 1936.

119143. ARECASTRUM ROMANZOFFIANUM (Cham.) Becc. (Cocos romanzoffiana Cham.). Phoenicaceae. Palm.

No. 4427. Geriva. A palm about 25 feet high, with a smooth trunk. The foliage is used extensively as cattle forage.

119144. Cocos sp. Phoenicaceae. Palm.

No. 4428. Butia. A palm about 15 feet high, with persistent petioles.

119145. MEDICAGO HISPIDA RETICULATA (Benth.) Urban. Fabaceae.

No. 4329. From Viamão, November 5, 1936. An excellent forage plant.

119146 and 119147. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

119146. No. 4273. From the streets in Porto Algre, October 30, 1936. Plants 2 feet high.

119147. No. 4276. From an arroyo near Pelotas, October 31, 1936.

119148. ORYZA SATIVA L. Poaceae. Rice.

No. 4426. Arroz Santa Maria. From Rio Pardo, November 2, 1936. A variety said to be superior in size and quality to other known types.

119149. TRACHYCARPUS EXCELSUS (Thunb.) Wendl. Phoenicaceae. Palm.

No. 4420. From the streets of Rio Pardo, November 8, 1936.

For previous introduction see 66766.

119150. PHALOCALLIS HERBERTII (Herbert) · Kuntze. Iridaceae.

No. 4409. From the Fazenda of Col. José Antonio Pereira Rego, 23 km. east of Rio Pardo, November 8, 1936. A bulbous plant, native to moist open places in Argentina. The linear plaited leaves are about a foot long, and the branching scape, 2 to 3 feet high, bears brown flowers about 2 inches across.

For previous introduction see 77593.

119151 to 119154. Gossypium spp. Malvaceae. Cotton.

From Peru. Seeds collected by James West and presented through the University of California Botanical Garden Expedition to the Andes, 1935–36. Received December 18, 1936.

Collected in the Urubamba Valley, Departamento Cuzco, in September 1936.

119151. GOSSYPIUM BARBADENSE L. Sea-island cotton.

No. 8069. From the Hacienda Alcusama, at 900 m. altitude. A cultivated cotton.

119152. Gossypium peruvianum Cav.

No. 8070. At 1,000 m. altitude.

119153. Gossypium sp.

No. 8072. At 1,000 m. altitude.

119154. Gossypium sp.

No. 8071. From Poronccoc, at 1,000 m. altitude.

119155 to 119197. NICOTIANA TABACUM | 119155 to 119197—Continued. Common tobacco. L. Solanaceae.

Venezuela. Seeds collected by mond Stadelman, Bureau of Plant Industry. Received December 29, 1936.

Nos. 119155 to 119157. Collected at Carache, Trujillo, October 19, 1936, at 1,200 m. altitude.

119155. No. 306.

119156. No. 307.

119157. No. 308.

Nos. 119158 to 119161. From La Bari-esa, Zamora, October 24, 1936, at 400 m. altitude.

119158. No. 309.

119159, No. 310,

119160. No. 311. Rabo de gallo.

119161. No. 312. Oreja de mula.

Nos. 119162 to 119164. From the State Zamora, October 24, 1936, at 400 m. From the State altitude.

119162. No. 313. Habano.

119163. No. 314.

119164. No. 315.

Nos. 119165 to 119167. From Mesparro, Zamora, October 25, 1936, at 200 m. altitude.

119165, No. 316,

119166. No. 317.

119167. No. 318.

119168. No. 319. From San Rafael near Bocono, Trujillo, October 29, 1936, at 1.300 m. altitude.

119169. No. 320. From Betijoque, Tru-jillo, October 21, 1936, at 540 m. alti-

Nos. 119170 to 119172. From Isnotu, T jillo, October 31, 1936, at 700 m. altitude. From Isnotu, Tru-

119170. No. 321.

119171. No. 322.

119172. No. 323.

Nos. 119173 to 119180. Collected in State of Merida, November 2 and 3, 1936. Collected in the

119173. No. 324. *Habano*. From San Juan, at 1,500 m. altitude.

119174. No. 325. Ambalema. millas, at 1,000 m. altitude. From Lagu-

119175. No. 326. Ambalema. millas, at 1,000 m. altitude. From Lagu-

119176. No. 327. Habano. guez, at 600 m. altitude.

119177. No. 328. Cuba pinon. From Tabacal.

119178. No. 329. Habano negro. From Zea, at 800 m. altitude.

119179. No. 330. Bixentone. From Tovar. at 950 m. altitude.

119180. No. 331. Criollo. From La da Bailadores, at 900 m. altitude. Criollo. From La Playa

Nos. 119181 and 119182. From Seboruco, Tachira, November 3, 1936, at 800 m. altitude.

119181. No. 332. Palmireno.

119182. No. 333. Habano.

Nos. 119183 to 119185. From La Grita, Tachira, November 3, 1936, at 1,100 m. altitude.

119183, No. 334. Ambireno.

119184. No. 335. Tabaco negro.

119185. No. 336. Palmira.

Nos. 119186 to 119188. From Tariba, Tachira, November 3, 1936, at 1,000 m. altitude.

119186. No. 337. Habano negro.

119187. No. 338.

119188. No. 339. Habano negro.

19189 to 119192. From Palmira, November 4, 1936, at 1,000 m. Nos. 119189 to 119192.

119189. No. 340. Cuba.

119190. No. 841.

119191, No. 342. Cuba negro.

119192. No. 343.

119193. No. 344. From Bocono, Trujillo, October 29, 1936, at 1,200 m. altitude.

Nos. 119194 to 119196. From Rubio, Tachira, November 5, 1936, at 800 m. altitude.

119194. No. 345. Cuba.

119195. No. 346. Puntilanza.

119196. No. 347. Palmira.

119197. From Carache, Trujillo, October 29, 1936, at 1,400 m. altitude.

119198. Jacaranda acutifolia Humb. and Bonpl. Bignoniaceae.

rom Argentina. Seeds presented to President Franklin D. Roosevelt by Augustin P. Justo, President General of Argentina. From Argentina. Received December 30, 1936.

A smooth tree with bipinnate leaves made up of 5 to 8 pairs of sharp-pointed entire leaflets and terminal and axillary panicles of tubular violet flowers. It is native to Peru.

For previous introduction see 88238.

119199 to 119211.

From Buenos Aires, Argentina. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received December 30, 1936.

119199 to 119204. ARACHIS HYPOGAEA Fabaceae.

Nos. 119199 to 119203 were purchased in seed stores, November 25, 1936.

119199, No. 4485.

119200. No. 4486.

119201. No. 4487.

119202. No. 4488.

119203. No. 4489.

119204. No. 4557. Presented November 27, 1936, by Dr. L. R. Parodi, Jardin Botánico de la Facultad de Agrono-mía, Buenos Aires.

119205 to 119211. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

Nos. 119205 to 119210. Presented by Agiros Villanueva, Jefe de Sección. Ex-

119199 to 119211—Continued.

119205 to 119211-Continued.

perimental Tobaco, Ministerio de Agricultura, Buenos Aires, November 22, 1936,

119205. No. 4547. Habano colorado. Strain S. R.

119206. No. 4548. Chileno Correntino. Strain M. S. F.

119207. No. 4549. Lampazo. Strain E. E. Ch.

119208. No. 4550. *Hoja parada*. Strain E. E. Ch.

119209. No. 4551. Chileno grande colorado. Strain S. F.

119210. No. 4552. Cubano de las sierras. Strain E. R.

119211. No. 4567. Presented November 27, 1936, by Dr. L. R. Parodi, Jardin Botánico de la Facultad de Agronomía, Buenos Aires.

119212. ACACIA RETINODES Schlecht.
Mimosaceae.

From Mexico. Seeds collected by C. C. Cole, of Coconut Grove, Fla. Received December 28, 1936.

A tall, vigorous, evergreen shrub or small tree, native to southeastern Australia, with long, narrow phyllodes, when mature, and dense yellow flower heads. It is said to flower in France almost throughout the year. The young seedlings, in common with many acacias, have feathery foliage.

For previous introduction see 92330.

119213 to 119215.

From Venezuela. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received December 29, 1936.

119213. Capsicum annuum L. Solanaceae. Common redpepper.

Mongo. A hot pepper from Niguitao, Trujillo, October 28, 1936.

119214 and 119215. LYCOPERSICON ESCU-LENTUM Mill. Solanaceae. Tomato.

From Barinitas, Zamora, October 24, 1936.

119214. A small tomato.

119215. A medium-sized tomato.

119216. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From the Union of Soviet Socialist Republics. Scions presented by the Institute of Plant Industry, Leningrad. Received June 2, 1932. Numbered in December 1936.

Pippin Chinese. No. 137721. Cat. No. 24.

119217 and 119218.

From Japan. Scions collected by P. H. Dorsett and W. J. Morse, Bureau of Plant Industry. Received in 1929 and 1930. Numbered in December 1936.

119217. PYRUS SEROTINA Rehder. Malaceae. Late pear.

No. 4345. Okusankichi. Presented by the Horticultural Institution, Department of Agriculture, Kyoto Imperial University, Kyoto, February 24, 1980.

119217 and 119218-Continued.

119218. MALUS FLORIBUNDA Sieb. Malaceae. Japanese flowering crab.

No. 1376. From along the seacoast near Shiraoi, Hokkaido, September 29, 1929. A small tree with small red fruits.

119219 to 119235.

From India. Seeds, bulbs, and roots collected by Walter Koelz, Bureau of Plant Industry. Received December 11, 1936.

119219 and 119220. ARISAEMA AMBIGUUM Engl. Araceae.

An arisaema with a large pedate leaf of 13 to 15 segments. Native to China.

119219. Received as bulbs.

119220. No. 1504-A. From Kulu, Kulu, Punjab.

119221. BERBERIS sp. Berberidaceae.

No. 1467. From Gundla, Lahul.

119222. BERBERIS sp. Berberidaceae.

No. 1468. From Tsokang Nulla, Lahul.

119223 to 119226. COTONEASTER spp. Malaceae.

119223. COTONEASTER Sp.

No. 1469. From Kyelang, Lahul.

119224. COTONEASTER Sp.

No. 1471. From Rotang Pass, Kulu, Punjab.

119225. COTONEASTER Sp.

No. 1477. From Kalung, Lahul.

119226. COTONEASTER MULTIFLORA Bunge. Malaceae.

No. 1478. From Rahla, Kulu, Punjab. A deciduous shrub about 6 feet high, with slender arching branches; native to western China. The broadly ovate leaves are 1 to 2 inches long, and the dense clusters of small white flowers are followed by subglobose to ovoid red fruits one-third of an inch in diameter.

For previous introduction see 102477. 119227. CYDONIA OBLONGA Mill. Mala-

ceae.
No. 1509. From Skardo, Baltistan.

119228. JUNIPERUS PSEUDOSABINA Fisch, and Mey. Pinaceae.

No. 1454. From Tsokang, Nulla, Lahul. A low shrubby juniper. Native to dry mountain slopes in Turkistan.

For previous introduction see 111057.

119229. MALUS BACCATA (L.) Moench. Malaceae. Siberian crab.

No. 1450. From Kyelang, Lahul.

119230. MALUS sp. Malaceae.

No. 1464. From Gozang, Lahul. An ornamental species.

119231. MELIA sp. Meliaceae.

No. 1505. From Raison, Kulu, Punjab.

119232. PRUNUS CORNUTA (Wall.) Steud. Amygdalaceae. Himalayan bird cherry.

No. 1452. From the Upper Bhaga Valley, Lahul. A deciduous tree 50 to 60 feet

119219 to 119235—Continued.

119232—Continued.

high, native to the Himalayan region up to 10,000 feet altitude. The cylindrical racemes of small white flowers are followed by round red fruits, one-third of an inch in diameter, which become dark brown purple. Closely allied to *Prunus padus*.

119233. PYRUS sp. Malaceae.

No. 1506. From Kulu, Kulu, Punjab.

119234. SORBUS Sp. Malaceae.

No. 1451. From Lahul.

119235. (Undetermined.)

No. 1470. Rhizomes from Nagger, Kulu, Punjab.

119236 to 119251.

From Brazil and Uruguay. Seeds, bulbs, and roots collected by W. A. Archer, Bureau of Plant Industry. Received December 23, 1936.

119236. ABUTILON MØLLISSIMUM (Cav.) Sweet. Malvaceae.

No. 4448. From Santa Anna, Rio Grande do Sul, Brazil, November 14, 1936. A compact shrub 3 feet in diameter, but reported to grow 10 feet high in Peru, where the plant is native. The stem and very large leart-shaped leaves are quite hairy, and the solltary axillary flowers, about an inch long, are sulfur yellow.

For previous introduction see 56908.

119237 to 119240. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

119237. No. 4447. From Santa Anna, Rio Grande do Sul, Brazil, November 13, 1936. A mixture of at least four types.

Nos. 119238 to 119240 were collected at Ribera, Uruguay, November 16, 1936.

119238. No. 4458. A variety said to yield 37 percent of oil.

119239. No. 4459. Cultivated peanut.

119240. No. 4460. Cultivated peanut.

119241. HIPPEASTRUM sp. Amaryllidaceae.

No. 4435. Along the road 12 km. north of Santa Anna, Rio Grande do Sul, Brazil, November 13, 1936. Bulbs of a plant common in this region, found in swampy places. The flower stalk is 2 to 3 feet long and bears 5 or 6 flowers; the petals are orange red with green markings at the base.

119242. Sprekelia formosissima (L.) Herb. Amaryllidaceae. St. Jameslily.

No. 4456. From Ribera, Uruguay, November 14, 1936. Bulbs of a perennial, native to Mexico, with 3 to 6 linear leaves 1 to 2 feet long and a reddish scape 1 foot high, with 1 large gaping, bright crimson flower 3 to 4 inches long.

For previous introduction see 93155.

119243. HIPPEASTRUM sp. Amaryllidaceae.

No. 4457. From Ribera, Uruguay, November 14, 1936. Bulbs of a cultivated plant, said to be native here. The leaves are strap-shaped, and the scape bears 5 or 6 flowers marked with red and white with narrow petals.

119236 to 119251—Continued.

119244. PHALOCALLIS HERBERTII (Herbert) Kuntze. Iridaceae.

No. 4436. Roots collected on a sandy hillside, along a road 12 km. north of Santa Anna, Rio Grande do Sul, Brazil, November 13, 1936.

For previous introduction and description see 119150.

119245. LAGENARIA LEUCANTHA (Duchesne) Rusby. Cucurbitaceae. Calabash gourd.

No. 4461. Yerua. From Ribera, Uruguay, November 16, 1936. The fruit is cultivated for its bottle-shaped fruits, which are about 8 inches long and are used as containers for maté.

119246. LUPINUS sp. Fabaceae.

No. 4303. From Viera, near Rio Grande, Rio Grande do Sul, Brazil, November 1, 1936. Plants growing in clumps a foot high and 4 feet in diameter on sand dunes near the sea.

119247. RAPHANUS SATIVUS L. Brassicaceae. Radish.

No. 4424. From Rio Pardo, Rio Grande do Sul, Brazil, November 8, 1936. Plants occurring as weeds in vegetable gardens.

Nos. 119248 and 119249 were collected near Ribera, Uruguay, November 16, 1936.

119248. VERBENA PERUVIANA (L.) Britton. Verbenaceae.

No. 4454. A scarlet-flowered trailing verbena with stems sometimes 2 feet or more long. Native to southern and western South America.

119249. VERBENA RIGIDA Spreng. Verbenaceae.

No. 4452. A perennial verbena, native to Brazil, with oblong-lanceolate, deeply dentate leaves and terminal cymes of whitish flowers.

119250. VICIA TETRASPERMA (L.) Moench. Fabaceae. Vetch.

No. 4430. From Posto Zoo-tecnico, at Tupaceretan, Rio Grande do Sul, Brazil, November 11, 1936. A plant native to Brazil, with white flowers tinged with lavender. It is cultivated as forage.

119251. ZEPHYRANTHES sp. Amaryllida-

No. 4432. From Posto Zoo-tecnico, at Tupaceretan, Rio Grande do Sul, Brazil, November 11, 1936. Bulbs of a plant with pink flowers.

119252 to 119266.

From India. Seeds, roots, and bulbs collected by Walter Koelz, Bureau of Plant Industry. Received December 29, 1936.

119252. AESCULUS INDICA (Royle) Hook. Aesculaceae. Horsechestnut.

No. 1651. From above Bandrole, Kulu, Punjab, November 14, 1936, at 8,000 feet altitude. A tree that becomes 100 feet high in northern India, with a trunk 4 feet in diameter, flowering the latter part of June when other horsechestnuts have finished. The foliage is shining green, and the dainty white flowers, which are borne in fairly dense racemes, have the 2 upper petals heavily blotched with yellow, changing to orange-red, and the lower petals are tinged with pink.

For previous introduction see 52625.

119252 to 119266—Continued. 119253 to 119258. ALLIUM spp.

119253. ALLIUM CEPA L.

Liliaceae. Onion.

No. 1370-A. Bulbs from Kampuk, Baltistan, at 9,000 feet altitude, Septem-ber 9, 1936. An onion which will stand freezing.

119254 to 119256, ALLIUM SATIVUM L. Garlic. Liliaceae.

119254. No. 1511. Gokpa. From Kalung, Lahul, at 12,000 feet altitude, October 12, 1936. Bulbs of a pungent sort.

119255. No. 1510. Gokpa. From Kampuk, Shyok Valley, Baltistan, September 9, 1936, at 12,000 feet September 9, 1936, at 12,000 feet altitude. Bulbs of a highly scented

9256. No. 1741. Lassan. Bulbs from Kulu, Kulu, Punjab, at 4,500 feet altitude, November 13, 1936. 119256. No.

119257. ALLIUM sp.

No. 1475. Rigok. From Kyelang, Lahul, at 10.000 feet altitude, October 21, 1936. Bulbs of a very attractive species, with cylindrical leaves and heads of clear-purple flowers 1½ inches in diameter. Grows on dry slopes and blooms in the damp earth of spring.

119258, ALLIUM SD.

No. 1720. Pram. Presented by the Director of Agriculture, Kashmir. Bulbs said to be used for flavoring.

Ruta-119259. CITRUS LIMONIA Osbeck. Lemon.

1743-A. From Bandrole, Kulu, No. Punjab.

119260. IRIS KASHMIRIANA Baker. Irida-

No. 1664. Roots of a wild species presented by the Director of Agriculture, Kashmir, November 14, 1936.

119252 to 119266—Continued.

119261. LILIUM POLYPHYLLUM D. Don. Liliaceae.

No. 1740. Bulbs presented rector of Agriculture, Kashmir. Bulbs presented by the Di-

For previous introduction see 112748.

119262. LIGUSTRUM COMPACTUM Hook. and Thoms. Rhamnaceae. Priv Privet.

No. 1742. From Bandrole, Kulu, Punjab. at 5,000 feet altitude, November 14, 1936. A well-formed evergreen tree with large trusses of creamy flowers, followed by blue-black fruits.

For previous introduction see 114763.

119263. SARCOCOCCA SALIGNA Muell. Arg. Buxaceae.

No. 1654. From Bandrole, Kulu, Punjab. at 6,000 feet altitude, November 14, 1936. An evergreen shrub from 2 to 3 feet high, which covers the ground in well-watered shady places. Interesting chiefly from its very fragrant green flowers in chort or illuminations. in short axillary racemes and the purple ovoid fruits nearly an inch long. Game birds find both food and shelter among the clumps.

For previous introduction see 92760.

119264. TAXUS Sp. Taxaceae.

1661. Rak Kahr. From NO. 1001. Kak Kahr. From above Bandrole, Kulu, Punjab, at 8,000 feet altitude, November 14, 1936. A handsome evergreen tree that becomes 4 feet in diameter, but occurs sparingly in the spruce-balsam forest.

119265. TULIPA SP. Liliaceae.

No. 1665. Bulbs presented by the Director of Agriculture, Kashmir.

119266. (Undetermined.)

No. 1472. Kukum. From Lahul, Punjab, at 9,000 feet altitude, October 22, 1936. Bulbs of a plant with crocuslike yellow flowers which bloom early in the spring; said to be poisonous to horses until after blooming.

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