

UNITED STATES DEPARTMENT OF AGRICULTURE



INVENTORY No. 125



Washington, D. C.

Issued April 1940

PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY, OCTOBER 1 TO DECEMBER 31, 1935 (Nos. 112307-113512)

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INTRODUCTORY STATEMENT

This inventory, No. 125, is a record of plant material received by the Division of Plant Exploration and Introduction from October 1 to December 31, 1935 (Nos. 112307 to 113512).

Particular mention should be made of the introduction from Oceania of 143 lots of sugarcane cuttings (Nos. 112861 to 113003). These were collected by E. W. Brandes, Bureau of Plant Industry, and represent distinct native strains developed in New Caledonia, New Hebrides, and other Pacific islands. This introduction is a continuation of a worldwide search for mosaic-resistant varieties that already has made possible the development of superior commercial varieties for Louisiana and western Puerto Rico, and in the past few years it has increased sugar production for those areas from 46,000 tons to about 500,000 tons per year.

A closely related project is one concerned with the genetics of the sugar beet. Additional source material for this project is recorded in the introduction through G. H. Coons, of the Bureau of Plant Industry, of 193 lots of beet varieties (*Beta* spp.; Nos. 112398 to 112590) from Portugal, Germany, and other parts of continental Europe, and from the Canary and Madeira Islands.

Several lots of seeds of cultivated tobacco were received from Colombia, where Raymond Stadelman of the Bureau of Plant Industry was engaged in collecting as many as possible of the local strains grown in the more isolated parts of that country. At the same time W. A. Archer, mentioned in the preceding inventory, continued to send in seed of tobacco varieties from Mexico. These introductions are intended, as has already been pointed out in Inventory No. 124, for the use of Department pathologists seeking to develop disease-resistant tobacco varieties for the United States.

Rice growers will note with interest the recording of a special collection of Korean varieties (Nos. 113418 to 113435), presented by the Laboratory of Plant Pathology at Fukuoka, Japan.

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., April 13, 1939.

INVENTORY¹

112307 to 112316. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Colombia. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received October 17, 1935.

Introduced for Department specialists.

112307. No. 2. *Garcia*. September 18, 1935. From a small farm at Boquerón, on the highway south of Piedecuesta, at about 5,000 feet altitude.

112308. No. 3. Mixed varieties from the Villamizar plantations, Chaparro.

112309. No. 4. *Chocóa*. From the Villamizar plantations near Bimanga.

112310. No. 5. From the Villamizar plantations near Bimanga. A variety with a lighter leaf.

112311. No. 6. Mixed varieties from the plantation La Joya of Gustavo Ordóñez C., near Bucaramanga.

112312. No. 7. September 25, 1935. Collected from a single plant on the plantation La Joya, near Bucaramanga.

112313. No. 8. September 28, 1935. From Girón, Departamento Santander. Variety *Garcia*, presented by Jose Maria Marques.

112314. No. 9. September 28, 1935. American seed, presented by Carlos Uribe, Llano Grande, near Girón.

112315. No. 10. *Cubano*. Presented by Nicolas Gonzales, Girón.

112316. No. 11. *Chocóa*. September 29, 1935. From Carlos Uribe, Girón.

112317. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From England. Seeds presented by Prof. F. L. Engledow, National Institute of Agricultural Botany, Cambridge. Received October 10, 1935.

Introduced for Department specialists.

Holdfast, a new wheat developed by Professor Engledow.

112318 and 112319. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

From Brazil. Seeds presented by Ministerio da Agricultura, Estação Experimental de Cana de Assucar, Campos, Rio de Janeiro. Received October 11, 1935.

Introduced for Department specialists.

112318. *Amendoim Commum*.

112319. *Amendoim Francez*.

112320 to 112331. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received October 15, 1935.

Introduced for Department specialists.

112320. No. 3531. Collected September 20, 1935, at Xaltiangus, Guerrero.

112321. No. 3534. *Tobacco cimarrón*. A volunteer plant collected September 23, 1935, at Santa Maria, Moreles.

112322. No. 3542. Collected September 25, 1935, from a volunteer plant in the garden of the Colegio de las Vizcainas, Distrito Federal.

Nos. 112323 to 112326 were collected in the State of Guanajuato.

112323. No. 3543. Collected September 30, 1935, at León.

112324. No. 3544. *Lenguillo*. Collected September 20, 1935, at León.

112325. No. 3545. A mixed sample of *Chino*, *Negro*, *Virginia*, and *Lenguillo*. Collected September 30, 1935, at León.

112326. No. 3546. A mixed sample, collected October 1, 1935, at San Francisco de Rincon.

Nos. 112327 to 112330 were collected in the State of Jalisco.

112327. No. 3548. *Lenguillo*. Collected October 2, 1935, at San Juan de Los Lagos.

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 forest, and the use of varietal names for them in American literature becomes necessary, the foreign varietal designations appearing in this inventory will be subject to change with a view to bringing the forms of the names into harmony with recognized horticultural nomenclature.

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

112320 to 112331—Continued.

112328. No. 3549. *Cuerna de cabra*. Collected October 3, 1935, at Encarnación.

112329. No. 3550. *Penja de maguey*. Collected October 2, 1935, at Encarnación.

112330. No. 3551. *Hoja ancha*. Collected October 3, 1935, at Encarnación.

112331. No. 3555. *Cuerna de borrego*. Collected October 5, 1935, at Pabellón. Aguascalientes.

112332 to 112335. *CHENOPODIUM* spp. Chenopodiaceae.

From Bolivia. Seeds presented by John J. Muccio, American consul, La Paz. Received October 9, 1935.

Introduced for Department specialists.

112332. *CHENOPODIUM HASTATUM* Phil.

A species grown only at very high altitudes. Both the plant and the seeds are much smaller than those of *Chenopodium quinoa*, and it is not grown as extensively.

For previous introduction see 41335.

112333 to 112335. *CHENOPODIUM QUINOA* Willd. Quinoa.

112333. *Quinoa dulce, blanca*.

112334. *Quinoa corriente*.

112335. *Quinoa real*.

112336. *TRIFOLIUM* sp. Fabaceae.

From England. Seeds presented by H. Gilbert-Carter, Director, Botanic Garden, Cambridge. Received October 1, 1935.

Introduced for Department specialists.

112337. *PENNISETUM OCCIDENTALE* Chase. Poaceae. Grass.

From Ecuador. Seeds presented by Ing. Nelson Márquez, Director, Milagro Model Farm, Guayaquil. Received October 9, 1935.

Introduced for Department specialists.

A tall perennial grass growing in large clumps in low ground. Native to Ecuador.

112338. *DERRIS PTEROCARPUS* (DC.) Kilip. Fabaceae.

From British Guiana. Root cuttings collected by W. A. Archer, Bureau of Plant Industry. Received November 11, 1934. Numbered in October 1935.

No. 2594. Collected in the Botanical Gardens, Georgetown, September 27, 1934. A climbing shrub, native to French Guiana, with trifoliolate leaves and racemes of rather large white flowers.

For previous introduction see 108577.

112339 to 112343. *SACCHARUM* spp. Poaceae.

From the Fiji Islands. Cuttings presented by the Nausori Mill, through Julius Matz, Bureau of Plant Industry. Received October 15, 1935.

112339 and 112340. *SACCHARUM* spp.

Received under the name "robustum," a name not properly published.

112339. *Nausori Native Cane A*.

112340. *Nausori Native Cane B*.

112339 to 112343—Continued.

112341 and 112342. *SACCHARUM OFFICINARUM* L. Sugarcane.

112341. 28 N. G. 11.

112342. 28 N. G. 223.

112343. *SACCHARUM SPONTANEUM* L.

Karawai Native Cane C.

112344 and 112345. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

From England. Seeds presented by Gartons Ltd., Warrington. Received October 7, 1935.

Introduced for Department specialists.

112344. *Little Tich*. A distinct new short-strawed wheat.

112345. *Redman* wheat.

112346. *TEPHROSIA VOGELII* Hook. f. Fabaceae.

From Africa. Seeds presented by the Lieutenant Governor, Ivory Coast, through the Division of Insecticide Investigations, Bureau of Entomology and Plant Quarantine. Received July 20, 1933. Numbered in October 1935.

Introduced for Department specialists.

I. D. (Insecticide Division) No. 1776. A shrubby legume native to tropical Africa.

For previous introduction see 111348.

112347 to 112349. *BESSERA ELEGANS* Schult. f. Liliaceae. Coralldrops.

From Mexico. Bulbs presented by Prof. Guillermo Gándara, Universidad Nacional de México, Mexico City, through Dr. Jose Figueroa, El Director del Instituto Biotecnico, D. F. Received October 2, 1935.

A bulbous squill-like plant with two to three narrow linear leaves about 18 inches long and equally long scapes having umbels of 4 to 20 vermilion flowers 1 inch long. Native to Mexico.

112350 to 112353. *ZEPHYRANTHES* spp. Amaryllidaceae. Zephyrily.

From Bermuda. Bulbs presented by John Bushell, through T. A. Russell, Acting Director of Agriculture, Paget East. Received October 3, 1935.

Introduced for Department specialists.

112350. *ZEPHYRANTHES CANDIDA* (Lindl.) Herb. Autumn zephyrily.

A subtropical, white-flowered species with linear leaves a foot long, appearing with the flowers; the flowers, about 2 inches long, are often rose tinted on the outside. Native to Argentina.

For previous introduction see 109910.

112351. *ZEPHYRANTHES CARINATA* Herb.

A bulbous perennial with linear leaves and a scape about a foot high, bearing a single rosy flower 3 to 5 inches across and 3 inches long. It is said to be the largest and choicest of the rosy-flowered zephyrilies and blooms in the summer. Native to the West Indies.

For previous introduction see 107145.

112350 to 112353—Continued.

112352. ZEPHYRANTHES ROSEA Lindl.

A tender autumn-blooming species, native to Cuba, with linear, bright-green leaves and rose-colored flowers an inch long, on a peduncle 4 to 6 inches long.

For previous introduction see 109912.

112353. ZEPHYRANTHES TEXANA Herb.

Aurea. A variety with bright-yellow flowers.

112354 to 112359. NICOTIANA spp. Solanaceae. Tobacco.

From Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received October 4, 1935.

Introduced for Department specialists.

112354. NICOTIANA GLAUCA R. Grah. Tree tobacco.

No. 3535. Collected near Taxco, Morelos, September 23, 1935. The plants are from 6 to 20 feet high, with yellow flowers; grows commonly throughout Mexico.

112355 to 112359. NICOTIANA TABACUM L. Common tobacco.

112355. No. 3530. *Virginia*. Puente de Ixtla, Morelos, September 19, 1935.

112356. No. 3532. From Los Organos, Guerrero, September 22, 1935.

112357. No. 3533. From Kilometro Cuarenta, Guerrero, September 23, 1935.

112358 and 112359. Seed grown by Captain McClellan at Hacienda de Ixtapa, Puerto Vallarta, Jalisco, and presented September 20, 1935, through G. H. Winters, American consul at Guadalajara.

112358. No. 3536. *Orejón palmeño*.

112359. No. 3537. *Virginia*.

112360 and 112361. LITCHI CHINENSIS Sonner. Sapindaceae. Lychee.

From China. Plants presented by Col. Clyde S. Ford, United States Postal Agency, Shanghai. Received July 24, 1923. Numbered in October 1935.

Introduced for Department specialists.

112360. No. 7.

112361. No. 8.

112362. SACCHARUM OFFICINARUM L. Poaceae. Sugarcane.

From New York, N. Y. Cuttings received through the Bureau of Entomology and Plant Quarantine, October 5, 1935.

112363 to 112367. BETA spp. Chenopodiaceae.

From France. Roots collected by G. H. Coons, Division of Sugar Plants, Bureau of Plant Industry. Received October 7, 1935.

Introduced for Department specialists.

112363 to 112366. BETA VULGARIS L. Common beet.

112363. Variety *Atriplicifolia*. Originally from La Hoya, near Lorca, Spain, grown for 3 months in the Museum of Paris Botanical Garden, Paris.

112363 to 112367—Continued.

112364. From Vanville, Normandie.

112365. From Clotal, near Cherbourg, Normandie.

112366. From Landmere, near Cherbourg, Normandie.

112367. BETA TRIGYNA Waldst. and Kit.

From the Museum of Paris Botanical Garden, Paris.

112368. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Australia. Tubers presented by Richard P. N. Short, Department of Agriculture and Stock, Brisbane, Queensland. Received October 8, 1935.

Snowflake potatoes, grown by Bull Bros., Musk Creek, Victoria; introduced for Department specialists.

112369. BESSERA ELEGANS Schult. f. Liliaceae. Coralldrops.

From Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received October 4, 1935.

No. 3541. September 19, 1935. Collected in rocky soil on bluffs near Dos Caminos, Guerrero.

For previous introduction and description see 112349.

112370 and 112371.

From Mexico. Seeds presented by F. W. Smith, Guasave, Sinaloa. Received October 7, 1935.

Introduced for Department specialists.

112370. CITRUS GRANDIS (L.) Osbeck. Rutaceae. Grapefruit.

A grapefruit with pink flesh.

112371. IPOMOEA sp. Convolvulaceae.

A plant with satin-sheen white flowers and peculiar hairy pods; tubers form on the roots. Received under the name "Illicifolia," for which a place of publication has not been found.

112372. JUBAEOPSIS CAFFRA Beccari. Phoenicaceae. Palm.

From the Union of South Africa. Seeds presented by E. Percy Phillips, Principal Botanist, Department of Agriculture, Pretoria. Received October 4, 1935.

Introduced for Department specialists.

A low pinnate-leaved palm 20 feet or less in height, with leaves 12 to 15 feet long and small edible nuts about the size of walnuts. Native to the coast of the Cape of Good Hope.

112373. CARICA PAPAYA L. Papayaceae. Papaya.

From the West Indies. Seeds collected by Mrs. Aileen Ricker, Bureau of Plant Industry. Received October 15, 1935.

Introduced for Department specialists.

Collected at Kingston, Jamaica. A papaya of fine flavor.

112374 and 112375.

From Surinam. Root cuttings collected by W. A. Archer, Bureau of Plant Industry. Received January 11, 1935. Numbered in October 1935.

Introduced for Department specialists.

112374. LONCHOCARPUS sp. Fabaceae.

No. 2850. *Basra nekoe, Haiariballi*. Collected near Scotelweg, December 1, 1934. A small plant, 6 feet high, found growing in shade on fine rich silt.

112375. MACHAERIUM sp. Fabaceae.

No. 2869. *Fai fai noroko*. Collected at Vredenburg Weg, December 7, 1934. A plant with yellow flowers and slender pods. The wood becomes yellow after cutting.

112376 and 112377.

From Cuba. Seeds presented by Robert M. Grey, Superintendent, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, through F. G. Walsingham. Received October 11, 1935.

Introduced for Department specialists.

112376. ARECA TRIANDRA Roxb. Phoeniceae. Palm.

A graceful spineless palm, ultimately about 25 feet high, usually with several trunks which bear crowns of pinnate leaves 4 to 6 feet in length. The fruits, about the size of an olive, are orange scarlet. Native to India.

For previous introduction see 103156.

112377. PASSIFLORA FOETIDA L. Passifloraceae. Passionflower.

A rapid-growing, trailing, climbing vine with small purple flowers and delicately flavored yellow fruits less than 1 inch in diameter. It is used as a cover crop for coconuts and rubber in the Philippine Islands, and should make an interesting ornamental in the warmer parts of Florida and California.

For previous introduction see 90783.

112378 and 112379.

From Africa. Seeds collected by Dr. Thomas Barbour, Director of the Museum of Comparative Zoology, Harvard University Cambridge, Mass. Received October 14 1935.

Introduced for Department specialists.

112378. GOSSYPIUM sp. Malvaceae.

Wild cotton, collected July 27, 1935, at New Gullet in the tropical lowlands of southern Swaziland, South Africa.

112379. IPOMOEA sp. Convolvulaceae.

Collected at Lourenço Marques, Mozambique.

112380. VIOLA PATRINII Ging. Viola-ceae. Violet.

From Germany. Seeds presented by the Botanic Garden, Berlin-Dahlem. Received March 27, 1934. Numbered in October 1935.

Introduced for Department specialists.

For previous introduction see 104603.

112381 to 112384.

From Surinam. Root cuttings collected by W. A. Archer, Bureau of Plant Industry. Received January 14, 1935. Numbered October 17, 1935.

Introduced for Department specialists.

112381 to 112383. LONCHOCARPUS spp. Fabaceae.**112381. LONCHOCARPUS NICOU (Aubl.) DC.**

No. 2936. Collected at Carolina on the Surinam River, December 18, 1934. A strong growing vine with three to five pinnate papery leaves. Native to northern South America.

112382. LONCHOCARPUS sp.

No. 2888. *Wiriri nekuru*. From Carolina on the Surinam River, December 13, 1934. A shrub or small tree 4 to 15 feet high with a slender single stem. The single enlarged root is soft, but the stem is extremely hard.

112383. LONCHOCARPUS NICOU (Aubl.) DC.

No. 2920. *Nan nekoe or reddi nekoe*. From Marshall Creek, 20 miles above Carolina on the Surinam River, December 16, 1934.

For previous introduction and description see 112381.

112384. SOLANUM LEUCOCARPON Dun. Solanaceae.

No. 2917. *Ababepau*. From Marshall Creek, 20 miles above Carolina on the Surinam River. A bushy shrub 6 to 10 feet high.

112385 to 112393. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Colombia. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received September to December 1935.

Introduced for Department specialists.

112385. No. 12. Palmira. September 29, 1935. From Eliseo Rodriguez, Girón.**112386. No. 13. Chocóa. October 14, 1935. From Compania Colombiana de Tabaco, Baranquilla.****112387. No. 14. Cubita. October 14, 1935. From Ovejas, Department Bolívar.****112388 and 112389. October 26, 1935. From La Pintada, Antioquia.****112388. No. 15. Tachuela, mixed with other varieties.****112389. No. 16. Tachuela.****112390 and 112391. November 15, 1935. From Eduardo Villa, Barrio, Antioquia. Medellín.****112390. No. 27. Cordoncillo.****112391. No. 28. Zapatoca.****112392 and 112393. Tachuela, mixed with other varieties. November 15, 1935, from Bello, Antioquia.****112392. No. 29. Presented by Lino Taboro.****112393. No. 30. Presented by Aureliano Muriel.**

112394 to 112396.

From Honduras. Seeds presented by N. J. Volk, Lancetilla Experiment Station, Tela, at the request of Wilson Popenoe. Received October 22, 1935.

Introduced for Department specialists.

112394. *DURIO ZIBETHINUS* Murr. Bombacaceae. Durian.

A large handsome pyramidal tree, native to the Malay Archipelago, and cultivated for the fruits which vary from round to oval in shape and from 5 to 10 pounds in weight. These are armed with formidable prickles less than an inch long; when ripe they become slightly yellow and have a very offensive odor. The cream-colored pulp surrounding the seed is the edible portion. The large seeds may be roasted and eaten like chestnuts. The tree is readily propagated by seed if sown fresh.

For previous introduction see 67642.

112395. *GARCINIA BENTHAMII* Pierre. Clusiaceae.

A small rapidly growing evergreen tropical tree closely related to the mangosteen (*Garcinia mangostana*), native to high altitudes in the Philippine Islands. The edible fruits are very similar to those of the mangosteen except that they are slightly smaller, bright red, and have very acid flesh.

For previous introduction see 81052.

112396. *NEPHELIUM LAPPACEUM* L. Sapindaceae. Rambutan.

An erect tropical tree up to 40 feet high, native to the Malay Archipelago. The compound leaves are composed of five to seven pairs of elliptic, obovate or oblong leaflets about 4 inches long, shining dark green above, paler beneath. The crimson or yellowish fruits, in clusters of 10 to 12, are oval, about 2 inches long, and covered with soft fleshy spines less than 1 inch long. The white translucent juicy flesh (aril) which adheres to the oblong flattened seed is acidulous in flavor.

For previous introduction see 108990.

112397. *AGAVE PARRYI* Engelm. Amaryllidaceae.

From Arizona. Seeds presented by F. J. Crider, Boyce Thompson Arboretum, Superior. Received April 9, 1932. Numbered in September 1935.

Introduced for Department specialists.

An agave with a rosette of 20 to 30 oblong-spatulate leaves about 1 foot long and a scape up to 12 feet high, with a showy panicle of large greenish-yellow flowers. Native to the southwestern United States.

112398 to 112590. *BETA* spp. Chenopodiaceae.

From Europe. Seeds collected by G. H. Coons, Division of Sugar Plants, Bureau of Plant Industry. Received October 21, 1935.

Introduced for Department specialists.

112398 to 112410. *BETA VULGARIS* L. Common beet.

112398. No. 1. From Lisbon, Portugal.

Nos. 112399 to 112410. From Moite, Portugal.

112399. No. 2.

112400. No. 3.

112398 to 112590—Continued.

112401. No. 4. **112406.** No. 9.

112402. No. 5. **112407.** No. 10.

112403. No. 6. **112408.** No. 11.

112404. No. 7. **112409.** No. 12.

112405. No. 8. **112410.** No. 13.

112411 to 112422. *BETA VULGARIS* MACROCARPA (Guss.) Moq.

From Lavradio, Portugal.

112411. No. 14. **112417.** No. 21.

112412. No. 15. **112418.** No. 22.

112413. No. 16. **112419.** No. 23.

112414. No. 17. **112420.** No. 24.

112415. No. 19. **112421.** No. 25.

112416. No. 20. **112422.** No. 26.

112423 to 112440. *BETA VULGARIS* L. Common beet.

From Lisbon, Portugal.

112423. No. 27. **112432.** No. 36.

112424. No. 28. **112433.** No. 37.

112425. No. 29. **112434.** No. 38.

112426. No. 30. **112435.** No. 39.

112427. No. 31. **112436.** No. 40.

112428. No. 32. **112437.** No. 41.

Red mangold. **112438.** No. 42.

112429. No. 33. **112439.** No. 43.

112430. No. 34. **112440.** No. 44.

112431. No. 35.

112441. *BETA TRIGNA* Waldst. and Kit.

No. 45. From the Botanical Garden, Polytechnic School, Lisbon, Portugal.

112442 to 112460. *BETA VULGARIS* L. Common beet.

112442. No. 46. From the Botanical Garden of the Polytechnic School, Lisbon, Portugal.

Nos. 112443 to 112460. Collected on the Madeira Islands.

Nos. 112443 to 112459. Var. *Patula*.

112443. No. 50. **112452.** No. 59.

112444. No. 51. **112453.** No. 60.

112445. No. 52. **112454.** No. 61.

112446. No. 53. **112455.** No. 62.

112447. No. 54. **112456.** No. 63.

112448. No. 55. **112457.** No. 64.

112449. No. 56. **112458.** No. 65.

112450. No. 57. **112459.** No. 66.

112451. No. 58. **112460.** No. 67.

112461 to 112464. *BETA PATELLARIS* Moq.

Collected west of Praia, Formosa, Madeira Islands.

112461. No. 68. **112463.** No. 70.

112462. No. 69. **112464.** No. 70-A.

112465 to 112491. *BETA VULGARIS* L. Common beet.

112398 to 112590—Continued.

- Nos. 112465 to 112468. From Ponta de Cruz, Madeira Islands.
112465. No. 71. 112467. No. 73.
112466. No. 72. 112468. No. 74.
- Nos. 112469 to 112472. From Gorzullo, Madeira Islands.
112469. No. 75. 112471. No. 77.
112470. No. 76. 112472. No. 78.
112473. No. 80. From the garden of Ferroz de Silva, Funchal, Madeira Islands.
- Nos. 112474 to 112477 were presented by João Gomes, Ribiera, Madeira Islands.
112474. No. 81. 112476. No. 83.
112475. No. 82.
112477. No. 84. *Cycla* type.
- Nos. 112478 to 112482. From the Station Horticultura, Santa Cruz de Tenerife, Canary Islands.
112478. No. 85. 112481. No. 88.
112479. No. 86. 112482. No. 89.
112480. No. 87.
- Nos. 112483 to 112491. Var. *Procumbens*; from Funeta Martiane, Puerta Cruz, Tenerife, Canary Islands.
112483. No. 90. 112488. No. 95.
112484. No. 91. 112489. No. 96.
112485. No. 92. 112490. No. 97.
112486. No. 93. 112491. No. 98.
112487. No. 94.
- 112492 to 112496. BETA PATELLARIS Moq.
- From Bufudera, Santa Cruz de Tenerife, Canary Islands.
112492. No. 101. 112495. No. 104.
112493. No. 102. 112496. No. 105.
112494. No. 103.
- 112497 to 112502. BETA VULGARIS L. Common beet.
- From Porto de Madeira, below Tocaroute, Tenerife, Canary Islands.
112497. No. 106. 112498. No. 107.
- Nos. 112499 to 112502. Var. *Procumbens*.
112499. No. 108. 112501. No. 110.
112500. No. 109. 112502. No. 111.
112503. BETA PATELLARIS Moq.
- From Bojamar, Tenerife, Canary Islands.
- No. 112. A variety with rotulate flowers.
112504. BETA VULGARIS L. Common beet.
- From Bojamar, Tenerife, Canary Islands.
- No. 113. Var. *Procumbens*.
- 112505 to 112507. BETA PATELLARIS Moq.
- From Bojamar, Tenerife, Canary Islands.
112505. No. 114. 112507. No. 116.
112506. No. 115.

112398 to 112590—Continued.

- 112508 to 112512. BETA VULGARIS MACROCARPA (Guss.) Moq.
- From Bojamar, Tenerife, Canary Islands.
112508. No. 117. 112511. No. 120.
112509. No. 118. 112512. No. 121.
112510. No. 119.
- 112513 to 112522. BETA PATELLARIS Moq.
- Nos. 112513 to 112515. From Bojamar, Tenerife, Canary Islands.
112513. No. 122. 112515. No. 124.
112514. No. 123.
- Nos. 112516 and 112517. From Banderos, Grand Canary, Canary Islands.
- 112516 No. 125. 112517. No. 126.
112518. No. 127. From Questa de Silva, Grand Canary, Canary Islands.
112519. No. 128. From San Felipe, Grand Canary, Canary Islands.
112520. No. 129. From Questa de Silva, en route to San Felipe, Grand Canary, Canary Islands.
112521. No. 130. From San Felipe, Grand Canary, Canary Islands.
112522. No. 131. From Questa de Silva, Grand Canary, Canary Islands.
112523. BETA VULGARIS MACROCARPA (Guss.) Moq.
- No. 132. From Banderos, Grand Canary Islands.
- 112524 to 112560. BETA VULGARIS L. Common beet.
- Nos. 112524 to 112527. From San Felipe, Grand Canary, Canary Islands.
112524. No. 133. 112525. No. 134.
112526. No. 135. Variety *Webbiana*.
112527. No. 136. Variety *Procumbens*.
- Nos. 112528 to 112530. Variety *Webbiana*; from northwest coast islets, Canary Islands.
112528. No. 137. 112530. No. 139.
112529. No. 138.
112531. No. 140. From San Felipe and coast islets of Grand Canary, Canary Islands. A mixed collection.
112532. No. 141. From Malega, Grand Canary, Canary Islands.
112533. No. 142. From Almeria, Grand Canary, Canary Islands.
- Nos. 112534 to 112539. From La Hoya, near Lorca, Canary Islands. Variety *Atriplicifolia*.
112534. No. 143. 112537. No. 146.
112535. No. 144. 112538. No. 147.
112536. No. 145. 112539. No. 148.
- Nos. 112540 to 112551. From Po di Levanti, Canary Islands.
112540. No. 149. 112543. No. 152.
112541. No. 150. 112544. No. 153.
112542. No. 151. 112545. No. 154.

112398 to 112590—Continued.

112546. No. 155. 112549. No. 158.
112547. No. 156. 112550. No. 159.
112548. No. 157. 112551. No. 160.

112552. No. 161. Variety *Nana*. Grown in an alpine greenhouse, Botanic Institute, Berlin-Dahlem, Germany.

112553. No. 162. Variety *Trigyna*. From Germany.

Nos. 112554 and 112555 were presented by Encet Yektay, Station de Selection de Semences, Eskichehir-Sazoya, Turkey.

112554. No. 163. 112555. No. 163-A.

Nos. 112556 to 112559. Variety *Pro-cumbens*. From the Madeira Islands

112556. No. 164. 112558. No. 166.

112557. No. 165.

112559. No. 167. From Ponto de Cruz.

112560. No. 168. From Madeira.

112561. *BETA TRIGYNA* Waldst. and Kit.

No. 169. From the Botanic Garden, Budapest, Hungary.

112562. *BETA VULGARIS MACROCARPA* (Guss.) Moq.

No. 170. From Salinas do Lavradio, Portugal.

112563 to 112590. *BETA VULGARIS* L.
Common beet.

Nos. 112563 to 112587. From Landmere, France.

112563. No. 201. 112575. No. 216.

112564. No. 202. 112576. No. 217.

112565. No. 203. 112577. No. 218.

112566. Nos. 204 and 205. 112578. No. 219.

112567. Nos. 206 and 207. 112579. No. 220.

112568. Nos. 208 and 209. 112580. No. 221.

112569. No. 210. 112581. No. 222.

112570. No. 211. 112582. No. 223.

112571. No. 212. 112583. No. 224.

112572. No. 213. 112584. No. 225.

112573. No. 214. 112585. No. 226.

112574. No. 215. 112586. No. 227.

112575. No. 216. 112587. No. 229.

Nos. 112588 and 112589. From Deauville, France.

112588. No. 230. 112589. No. 231

112590. No. 232. From Coitit, France.

112591 to 112595. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

From Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received October 22, 1935.

Introduced for Department specialists.

112591. No. 3547. *Lenguillo*. Collected October 1, 1935, at San Francisco de Rincon, Guanajuato.

166999-40-2

112591 to 112595—Continued.

112592. No. 3552. *Hoja ancha*. Collected October 2, 1935, at Encarnación de Diaz, Jalisco.

112593. No. 3554. *Negro*. Collected October 5, 1935, at Pabellon, Aguascalientes.

112594. No. 3557. *Macuchi* (?). Collected October 10, 1935, at Torreón, Coahuila.

112595. No. 3558. Collected October 11, 1935, at Torreón, Coahuila.

112596. *NEOMAMMILLARIA KARWINSKIANA* (Mart.) Britt. and Rose. Cactaceae.

From Mexico. Seeds collected by Paul Russell and Max Souviron, Bureau of Plant Industry, in the Botanic Garden, Mexico City. Received September 20, 1930. Numbered in November 1935.

Introduced for Department specialists.

A globular or cylindric cactus about 3 inches in diameter, with milky juice, spiral rows of terete tubercles, and solitary flowers half an inch across, the petals whitish with deep-pink central stripes. Native to southern Mexico.

112597. *LILIUM POLYPHYLLUM* D. Don. Liliaceae. Lily.

From India. Bulbs purchased from Mrs. P. Kohli, Baramula, Kashmir. Received November 30, 1935.

Introduced for Department specialists.

For previous introduction see 110099.

112598 to 112600.

From Palestine. Bulbs purchased from Vester & Co., American Colony Stores, Jerusalem. Received October 18, 1935.

Introduced for Department specialists.

112598. *CYCLAMEN PERSICUM* Mill. Primulaceae.

For previous introduction see 26885.

112599. *IRIS ANTILIBANOTICA* Dinsm. Iridaceae.

An *Oncocylus* iris with narrow, slightly falcate leaves 6 to 8 inches long and a leafy stem about 1 foot high. The flowers are purple with the standards lighter than the falls and veined with deeper purple. Native to Asia Minor at about 6,000 feet altitude.

112600. *IRIS LORTETII* Barbey. Iridaceae. Lebanon iris.

A hardy iris with stem less than a foot long, bearing two reduced leaves about the same length. The whitish outer segments of the flower are obovate, much reflexed, about 3 inches broad, and finely veined and spotted with red-brown, with a dark spot at the throat. The inner segments are pale gray with red-brown veins. Native to Lebanon and Asiatic Turkey.

For previous introduction see 28452.

112601 and 112602. *ACHRAS ZAPOTA* L. Sapotaceae. Sapodilla.

From Costa Rica. Seeds presented by Alan Kelso, Chief of the Propagation Service, Department of Agriculture, Puntarenas. Received October 16, 1935.

Introduced for Department specialists.

112601 and 112602—Continued.

112601. A fruit with cedar-red colored flesh which weighs about 1 pound.

112602. A fruit with salmon-colored flesh which weighs about 1 pound.

112603. SACCHARUM OFFICINARUM L. Poaceae. Sugarcane.

From New Guinea. Seeds presented by John L. Froggall, Director of Agriculture. Received October 22, 1935.

Introduced for Department specialists.

Collected from the Sepik River region.

112604 and 112605. (Undetermined.)

From Ecuador. Seeds and bulbs collected by Mrs. Ynes Mexia, Bureau of Plant Industry. Received October 18, 1935.

Introduced for Department specialists.

112604. No. 7673-A. Seeds of an undetermined amaryllid.

112605. No. 7673-A. Bulbs of an undetermined amaryllid. [Seeds of this plant introduced under P. I. 112604.]

112606. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From Manchuria. Seeds presented by L. Ptitin, Harbin. Received November 6, 1932. Numbered in October 1935.

A wild tomato; introduced for Department specialists.

112607 to 112609. PHLEUM PRATENSE L. Poaceae. Timothy.

From Germany. Seeds presented by the Director, Kaiser Wilhelm Institut für Züchtungsforschung, Müncheberg. Received October 21, 1935.

Introduced for Department specialists.

112607. No. 1520. An early variety.

112608. No. 1522. A late variety.

112609. No. 1521. A late variety.

112610 to 112617.

From Ecuador and Colombia. Seeds collected by Mrs. Ynes Mexia, Bureau of Plant Industry. Received October 18, 1935.

Introduced for Department specialists.

112610. BOMAREA sp. Amaryllidaceae.

No. 7670-A. September 13, 1935. Canton Quito, Provincia Pichincha, Ecuador; along the road from Nono to Gualea. A vine with nodding flowers whose outer segments are scarlet and the inner ones red orange flecked with maroon.

112611. CHAMAESSENNA VELUTINA Britt. and Killip. Caesalpinaceae.

No. 7686-A. *Chalan*. September 14, 1935. Canton Quito, Provincia Pichincha, Ecuador; collected near a stream along the trail from Nono to San Francisco at 8,800 feet altitude. A very handsome tree nearly 50 feet high, with pinnate leaves and large bright-yellow flowers in loose racemes.

112612. TEPHROSIA TOXICARIA (Sw.) Pers. Fabaceae.

No. 7714-A. *Barbasco chico*. September 24, 1935. Near Puyo, Provincia Napo-

112610 to 112617—Continued.

Pastau, Ecuador, at 1,100 feet altitude. A plant 4 feet high with whitish flowers.

For previous introduction see 111591.

112613. LUPINUS sp. Fabaceae.

No. 7709-A. *Chocho*. September 19, 1935. Canton Quito, Provincia Pichincha, Ecuador; collected on arid slopes at 10,000 feet altitude along the trail from Nono to Cotacallao. A spreading shrub about 4 feet high, with dark-blue flowers marked with white on the upper petal.

112614. PERNETTYA PROSTRATA PURPUREA (D. Don) Sleumer. Ericaceae.

No. 7642-A. *Moridera*. August 17, 1935. Collected on the road from Ipiales to Lojas, Departamento Narino, Colombia. A low bushy shrub with small lanceolate leaves, solitary white flowers, and purple fruits. Native to Peru.

112615. TROPAEOLUM DIGITATUM Karst. Tropaeolaceae.

No. 7691-A. September 14, 1935. Canton Quito, Provincia Pichincha, on the trail from Nono to San Francisco, Ecuador, at 9,000 feet altitude. A woody climber with peltate five- to seven-lobed leaves and yellow flowers an inch in diameter with a long red spur. Native to Venezuela.

112616. TROPAEOLUM TUBEROSUM Ruiz and Pav. Tropaeolaceae.

No. 7687-A. September 14, 1935. Canton Quito, Provincia Pichincha, Ecuador; collected along the trail from Nono to San Francisco at 8,800 feet altitude. A tuberous-rooted herbaceous climber with red and yellow flowers, native to the highlands of northern South America, where the tubers are boiled and eaten as a vegetable. The plant is said to be able to withstand a slight frost.

For previous introduction see 111428.

112617. (Undetermined.)

No. 7677-A. September 13, 1935. Canton Quito, Provincia Pichincha, Ecuador, along the road from Nono to Gualea at 10,500 feet altitude. An ornamental vine with attractive crimson flowers.

112618. TRIPSACUM sp. Poaceae. Grass.

From Guatemala. Plants presented by the United Fruit Co., through J. H. Kempton, Bureau of Plant Industry. Received October 29, 1935.

Collected in the Lake Retanas region; introduced for Department specialists.

112619 to 112635. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received October 29, 1935.

Introduced for Department specialists.

112619. No. 3553. From Bóbedas, Aguascalientes.

112620. No. 3556. From Guerrero, Durango.

Nos. 112621 and 112622. Collected in the State of Nayarit, October 1, 1935.

112621. No. 3575. *Jamaica*.

112622. No. 3576. *Bonanza*.

112619 to 112635—Continued.

Nos. 112623 to 112625. Collected in the State of Durango, October 18, 1935.

112623. No. 3577. Turkish tobacco from Reymundo.

112624. No. 3578. *Virginia*, probably. From Aviles.

112625. No. 3579. *Lagunero*. From Aviles.

112626. No. 3580. *Cordoba* type. From Coscomatepec, Veracruz, September 29, 1935.

Nos. 112627 to 112635 were furnished through the courtesy of the Instituto Biotécnico, San Jacinto, Distrito Federal.

Nos. 112627 to 112631 were collected in the State of Guerrero in September 1935.

112627. No. 3581. From San Miguel Totolapan.

112628. No. 3582. From Pungarabato.

112629. No. 3583. From Pungarabato.

112630. No. 3584. From Tetipac.

112631. No. 3585. Place of collection not given.

Nos. 112632 to 112635 were collected in the State of Michoacan in September 1935.

112632. No. 3586. From Yurécáro.

112633. No. 3587. From Huetamo de Nuñez.

112634. No. 3588. *Rustica* (cultivated). From La Piedad.

112635. No. 3589. From Tacambaro.

112636. CHELONE OBLIQUA L. Scrophulariaceae. Red turtlehead.

From the National Arboretum, Washington, D. C. Seeds collected by O. M. Freeman, Bureau of Plant Industry. Received October 31, 1935.

A herbaceous perennial up to 2 feet high, with showy rose-colored flowers in close terminal and axillary spikes. Native to damp shady localities in eastern North America.

112637 to 112640.

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley. Received October 26, 1935.

Introduced for Department specialists.

112637. *CELTIS RHAMNIFOLIA* Presl. Ulmaceae.

A tree about 20 feet high, with smooth gray bark, ovate, abruptly acuminate leathery leaves, and inconspicuous flowers. Native to southern Africa.

For previous introduction see 106078.

112638. *CHILIANTHUS ARBOREUS* (L. f.) Benth. Loganiaceae.

An erect evergreen shrub 6 to 10 feet high, with four-angled or crisply winged branchlets and lanceolate leathery leaves 3 to 4 inches long, smooth above and gray-scurfy beneath. The small creamy-white flowers are in small clusters formed into a large lax panicle 8 inches across. It is native to southern Africa.

For previous introduction see 99406.

112637 to 112640—Continued.

112639. *COMBRETUM ERYTHROPHYLLUM* (Burch.) Sond. Combretaceae.

A tree up to 40 feet high, with unarmed spreading branches and ovate-acute leaves which turn crimson in autumn. Native to tropical Africa.

112640. *TARCHONANTHUS MINOR* Less. Asteraceae.

A strongly resin-scented shrub, native to southern Africa, with oblong to obovate, entire leaves up to 2 inches long and short racemes of small woolly flower heads. It is said to be a good stock feed and to be drought resistant.

For previous introduction see 106380.

112641 to 112656. NICOTIANA spp. Solanaceae.

From the State of Hidalgo, Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received October 30, 1935.

Seeds from volunteer plants collected near Jacalo, October 15, 1935; introduced for Department specialists.

112641. *NICOTIANA* sp.

No. 3571.

112642. *NICOTIANA* sp.

No. 3572.

112643. *NICOTIANA* sp.

No. 3573.

112644. *NICOTIANA* sp.

No. 3559.

112645. *NICOTIANA* sp.

No. 3560.

112646. *NICOTIANA* sp.

No. 3561.

112647. *NICOTIANA* sp.

No. 3563.

112648. *NICOTIANA* sp.

No. 3564.

112649. *NICOTIANA* sp.

No. 3566.

112650. *NICOTIANA* sp.

No. 3568.

112651. *NICOTIANA* sp.

No. 3562.

112652. *NICOTIANA* sp.

No. 3565.

112653. *NICOTIANA* sp.

No. 3567.

112654. *NICOTIANA* sp.

No. 3569.

112655. *NICOTIANA* sp.

No. 3570.

112656. *NICOTIANA* sp.

No. 3574.

112657 to 112662. FESTUCA RUBRA COM-MUTATA Gaud. Poaceae.

Chewings fescue.

From New Zealand. Seeds presented by the Director, Plant Research Station, Palmerston North. Received October 25, 1935.

Introduced for Department specialists.

112657. Ref. 35/10010 (99-2/96).

112658. Ref. 35/10073.

112659. Ref. 35/10075.

112660. Ref. 35/10077.

112661. Ref. 35/10547.

112662. Ref. 35/10548.

112663 to 112665. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

From Brazil. Seeds presented by the Director, Estação Experimental do Trigo, Ponta Grossa, Parana. Received November 1, 1935.

Introduced for Department specialists.

112666 to 112669. PRUNUS spp. Amygdalaceae.

From England. Cuttings presented by Colingwood Ingram, The Grange, Benenden, Kent. Received January 31, 1930. Numbered in December 1935.

Introduced for Department specialists.

112666. *PRUNUS SIEBOLDII* (Carr.) Wittmack.

Takasago; best strain.

112667 to 112669. *PRUNUS SERRULATA* Lindl. Oriental cherry

112667. *Okiku-zakura*.

112668. *Tai Haku*.

112669. Ingram No. 2.

112670. SASA VEITCHII (Carr.) Rehder. Poaceae. Bamboo.

From New Jersey. Plants presented by W. A. Manda, Inc., South Orange. Received November 6, 1935.

Introduced for Department specialists.

112671 and 112672.

From the Irish Free State. Plants presented by J. W. Besant, Keeper, Botanic Garden, Glasnevin, Dublin. Received November 6, 1935.

Introduced for Department specialists.

112671. *SEMPERVIVUM ERYTHRAEUM* Vel. Crassulaceae.

A hardy sempervivum with tufted rosettes of many small grayish-purple leaves and small reddish flowers on a leafy stem 10 inches or less in height. Native to Bulgaria at altitudes of 3,000 to 8,000 feet.

112672. *SEMPERVIVUM MACEDONICUM* Praeger. Crassulaceae.

A succulent perennial forming a loose mat of rosettes of small fleshy leaves, reddish about the older leaf tips and small red-purple flowers on a leafy stem about 6 inches high. Native to Macedonia.

112673. HORDEUM sp. Poaceae. Barley.

From England. Seeds presented by a Mr. Beaven, Warminster, Wiltshire, through Dorothy Marlatt, Washington, D. C. Received November 4, 1935.

Introduced for Department specialists.

112674. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Canada. Seeds presented by the University of Saskatchewan, Saskatoon. Received November 8, 1935.

No. 1703. *Apea*; introduced for Department specialists.

112675 and 112676.

From Brownsville, Tex. Seeds collected by Peter Heinz near Tamazunchale, Mexico. Received November 12, 1935.

Introduced for Department specialists.

112675. *BELOPERONE COMOSA* Nees. Acanthaceae.

A herbaceous perennial with oval leaves and showy yellowish flowers in axillary spikes, subtended by dusky scarlet bracts. Native to Mexico.

112676. *OCIMUM MICRANTHUM* Willd. Menthaceae. Wild basil.

112677. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

From India. Plants purchased from the Botanic Garden, Saharanpur. Received March 5, 1934. Numbered in November 1935.

Saharanpur No. 5; introduced for Department specialists.

112678. SACCHARUM sp. Poaceae.

From the Fiji Islands. Cuttings presented by the Colonial Sugar Refining Co., Ltd., Karawai. Received November 14, 1935.

Introduced for Department specialists.

Received under the name "robustum," a name not properly published.

112679. ALEURITES TRISPERMA Blanco. Euphorbiaceae. Banucalag.

From Florida. Seeds presented by Mrs. L. L. Bow, Homestead, through T. B. McClelland, United States Plant Introduction Garden, Coconut Grove. Received September 11, 1935.

Introduced for Department specialists.

This Philippine relative of the tung-oil tree (*Aleurites fordii*) is a tree 30 to 50 feet high, with heart-shaped leaves and rounded three-angled fruits about 2 inches in diameter. It is a tropical tree and withstands only a few degrees of frost. The oil obtained from the seeds resembles tung oil, but has a somewhat lower drying power.

For previous introduction see 65297.

112680 to 112682. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received November 14, 1935.

Introduced for Department specialists.

112680 to 112682—Continued.

Tabaco montés. From Tehuantepec, State of Oaxaca.

112680. No. 3607. Collected October 3, 1935.

112681. No. 3608. Collected November 4, 1935.

112682. No. 3609. Collected November 4, 1935.

112683 to 112687. SACCHARUM. Poaceae. Sugarcane.

From Australia. Cuttings presented by the Colonial Sugar Refining Co., Macknade Mill, North Queensland, at the request of E. W. Brandes, Bureau of Plant Industry. Received November 15, 1935.

Introduced for Department specialists.

112683. 32 MQ 135, *Badila* × 31 MQ 720

|
Badila × 28 NG 251

112684. 32 MQ 478, P. O. J. 2878 × 31 MQ 1558

|
Korpi × 28 NG 251

112685. 32 MQ 579, P. O. J. 2878 × 28 NG 251

112686. 32 MQ 629, *Korpi* × 31 MQ 1351

|
Badila × 28 NG 253

112687. 32 MQ 657, *Korpi* × 31 MQ 1351

|
Badila × 28 NG 253

112688 to 112692. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From the State of Oaxaca, Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received November 15, 1935.

Introduced for Department specialists.

Nos. 112688 to 112690 were collected at Valle Nacional, October 30, 1935.

112688. No. 3602. Cigar tobacco.

112689. No. 3603. A mixed sample; a fine grade of cigar tobacco.

112690. No. 3604. A mixed sample, including *Tlapacoya*.

Nos. 112691 and 112692 were collected at Tuxtepec, October 29, 1935.

112691. No. 3605. A mixed sample.

112692. No. 3606. Tobacco used for making cigarettes.

112693. DACRYDIUM FRANKLINII Hook. f. Taxaceae. Huon-pine.

From Tasmania. Seeds collected by Charles W. Fidler, along the Gordon River in February 1935 and presented through L. A. Evans, Sandy Bay, Hobart. Received November 8, 1935.

Introduced for Department specialists.

An evergreen tree of pyramidal form, up to 100 feet high, with dense spreading head, pendulous branchlets, and small scalelike leaves resembling those of cypress. Native to swampy places in Tasmania.

112694. HYMENOCALLIS TENUIFLORA Herb. Amaryllidaceae.

From the Philippine Islands. Bulbs presented by Dr. W. Dwight Pierce. Received July 23, 1930. Numbered November 1935.

Introduced for Department specialists.

A tender hymenocallis with an umbel of 10 to 12 sessile white flowers. The perianth tube is long and very slender, and the narrow segments are about 4 inches long. Native to Colombia.

112695. AMHERSTIA NOBILIS Wall. Caesalpiniaceae.

From the British West Indies. Plant presented by H. R. Briton-Jones, Imperial College of Tropical Agriculture, Trinidad. Received November 20, 1935.

Introduced for Department specialists.

For previous introduction see 105449.

112696 to 112699. NICOTIANA TABACUM L. Solanaceae. Common tobacco.

From the State of Guerrero, Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received November 1, 1935.

Introduced for Department specialists.

112696. No. 3591.

112697. No. 3592. *Papantle*. From Ajhuiztla.

112698. No. 3593. *Putleco*. From Copala.

112699. No. 3594. *Mije*. From Ajhuiztla.

112700 to 112715.

From Uruguay. Seeds presented by Dr. R. Salgueiro Silveira, Chief, Sección Información y Enseñanza, Montevideo. Received November 11, 1935.

Introduced for Department specialists.

112700 to 112702. ARACHIS HYPOGAEA L. Fabaceae. Peanut.

112700. *Española*.

112701. *Nacional*.

112702. *Paraguaya*.

112703. GOSYPIUM sp. Malvaceae.

112704. HELIANTHUS ANNUUS L. Asteraceae. Sunflower.

Girasol.

112705 and 112706. NICOTIANA TABACUM L. Solanaceae. Common tobacco. *Nacional*.

112707 and 112708. RICINUS COMMUNIS L. Euphorbiaceae. Castor-bean.

112707. The type.

112708. *Paraguayensis*.

112709. SOJA MAX (L.) Piper. Fabaceae. Soybean.

A forage variety.

112710 and 112711. SOLANUM TUBEROSUM L. Solanaceae. Potato.

112710. *Americana*. A disease-resistant type.

112711. *Chaqueña*. A disease-resistant type.

112700 to 112715—Continued.

112712 to 112715. *ZEA MAYS* L. Poaceae. Corn.

112712. *Amargo*.

112713. *Blanco forragero*.

112714. *Casilda*.

112715. *Cuarenton*.

112716 to 112724.

From England. Bulbs and roots purchased from Hocker Edge Gardens, Cranbrook. Received November 15, 1935.

Introduced for Department specialists.

112716. *BEGONIA EVANSIANA* Andrews. Begoniaceae.

For previous introduction see 61904.

112717 to 112722. *IRIS* spp. Iridaceae.

112717. *IRIS BARNUMAE* Foster and Baker.

112718. *IRIS EWBANKIANA* Foster.

112719. *IRIS STOLONIFERA* Maxim.

112720. *IRIS PARADOXA* Stev. Velvet iris.

For previous introduction see 111945.

112721. *IRIS STOLONIFERA* Maxim.

For previous introduction see 112719.

112722. *IRIS URMIENSIS* Hoog.

112723. *LEUCOJUM VERNUM* L. Amaryllidaceae. Spring snowflake.

Carpaticum. A vigorous variety with yellow-tipped white flowers, usually two on a stem.

112724. *RHODOHYPOXIS BAURI PLATYPETALA* (Baker) Nel. Amaryllidaceae.

A charming little alpine with erect linear hairy leaves about 2 inches long and starry white flowers occasionally flushed pink, about 1 inch across on peduncles 2 to 3 inches long. Native to southern Africa at altitudes of 3,500 to 5,000 feet.

112725 and 112726. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

From China. Seeds presented by T. F. Yu, Plant Pathologist, Nanking University, Nanking. Received November 8, 1935.

Chinese wheat which has been found to be resistant to flag smut in the Nanking region; introduced for Department specialists.

112725. *Nanking No. 5*.

112726. *Nanking No. 16*.

112727 to 112743.

From Brazil. Seeds collected by Dr. Doris Cochran, United States National Museum, Washington, D. C. Received November 7, 1935.

Introduced for Department specialists.

112727. *ABELMOSCHUS ESCULENTUS* (L.) Moench. Malvaceae. Okra.

No. 29-B.

112728. *ANNONA SQUAMOSA* L. Annonaceae. Sugar-apple.

No. 3.

112729. *CASSIA* sp. Caesalpiniaceae.

No. 7.

112727 to 112743—Continued.

112730 to 112732. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.

Collected at Perapora, State of Minas Geraes.

112730. No. 4. A long melon with a hooked neck, pale-green rind, and dark pink, rather thin flesh.

112731. No. 2. A small round melon with dark-green rind and pink flesh.

112732. No. 28.

112733. *CLEOME SPINOSA* Jacq. Cappariaceae.

No. 14. From Ouro Preto, Minas Geraes, March 1935.

112734. *CROTALARIA* sp. Fabaceae.

No. 19. From Nova Friburgo, State of Rio de Janeiro.

112735. *CUCUMIS ANGURIA* L. Cucurbitaceae. West Indian gherkin.

No. 29-A. From the market, Rio de Janeiro.

112736. *HIPPEASTRUM* sp. Amaryllidaceae.

No. 1. From Recreio dos Bandeirantes, Federal District, Rio de Janeiro, February 26, 1935.

112737. *IPOMOEA SETOSA* Ker. Convolvulaceae.

No. 9.

112738 to 112740. *MAURANDYA* spp. Scrophulariaceae.

112738. *MAURANDYA ERUBESCENS* (D. Don) Gray.

No. 10. From the State of Rio de Janeiro. A woody climber with triangular, serrate, alternate leaves with trumpet-shaped, rose-pink flowers. Native to Mexico.

For previous introduction see 106612.

112739. *MAURANDYA BARCLAIANA* Lindl. Barclay maurandia.

No. 22. From Lagoa Grande, near Bello Horizonte, Minas Geraes, March 19, 1935. A small vine 5 or 6 feet in height which forms a dense mat of foliage, with individual leaves about 1 inch in diameter. The funnel-shaped rich blue-purple flowers, about 1 inch in diameter, are produced in great profusion.

For previous introduction see 37883.

112740. *MAURANDYA* sp.

No. 27. From Nova Friburgo, State of Rio de Janeiro, May 13, 1935. A vine with lavender flowers.

112741. *QUAMOCLIT* sp. Convolvulaceae.

No. 26. From Lassance, Minas Geraes, March 21, 1935. A wild cypress vine with scarlet flowers.

112742. *SOLANUM MELONGENA* L. Solanaceae. Eggplant.

No. 29. May 1935. From the market at Rio de Janeiro.

112743. *ZEA MAYS* L. Poaceae. Corn.

No. 31. From Lassance, Minas Geraes, March 21, 1935.

112744. CHIMONOBAMBUSA QUADRANGULARIS (Fenzi) Makino. Poaceae.

Bamboo.

From the Orient. Plants presented by Miss Genevieve Wimsatt, through the Bureau of Plant Quarantine. Received June 17, 1935 Numbered in November 1935.

A bamboo which produces angular culms, squarish in cross section. This character does not appear, however, in culms of very small diameter. The maximum height attained is uncertain, possibly 25 or 30 feet. The species has proved difficult to propagate.

For previous introduction see 93225.

112745 to 112751.

From England. Bulbs purchased from W. A. Constable Ltd., Tunbridge Wells. Received November 21, 1935.

Introduced for Department specialists.

112745. LEUCOJUM AESTIVUM L. Amaryllidaceae.

Gravetye Giant. A variety with large pendulous heads of white flowers with green tips, in late spring.

112746 to 112751. LILIUM spp. Liliaceae.

112746. LILIUM DUCHARTREI Franch.

A lily of the Martagon section, native to alpine and subalpine regions of western China. The stems are 2 to 5 feet high, the scattered lanceolate leaves are 2 to 4 inches long, and the fragrant, nodding, marble-white flowers, 3 inches across, spotted and lined with vinous-purple, are borne in umbels of 1 to 12.

For previous introduction see 99891.

112747. LILIUM DUCHARTREI FARRERI (Turr.) Grove.

A slender graceful lily, 2 to 3 feet high, bearing on long pedicels up to 5 recurved white flowers which are slightly spotted with purple on the inside.

For previous introduction see 90526.

112748. LILIUM POLYPHYLLUM D. Don.

For previous introduction see 112597.

112749. LILIUM SUTCHUENENSE Franch.

A lily from Szechwan, western China, with a stem 3 to 5 feet high, the underground portion running horizontally. The thickly scattered leaves are linear and deep green, and the pendulous flowers, up to 20 in number, have reflexed orange-red segments spotted with purplish black, and red anthers.

For previous introduction see 95491.

112750. LILIUM WALLICHIANUM Schult. f. Wallich lily.

A lily 4 to 6 feet high, with linear leaves 6 to 9 inches long and, usually, solitary waxy, creamy-white, fragrant flowers 9 inches long, which are golden yellow at the base inside and green outside. Native to the Himalayas from Nepal to northern Burma.

For previous introduction see 111062.

112751. LILIUM WARDII W. W. Smith.

A very fragrant Martagon lily with stems about 3 feet high, oblong to linear-lanceolate leaves, and 12 to 20 or more pink flowers with purple spots. Native to Tibet at altitudes between 8,000 and 10,000 feet.

112752. PASSIFLORA FOETIDA HASTATA (Bertol.) Mast. Passifloraceae.

Passionflower.

From Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received November 14, 1935.

Introduced for Department specialists.

No. 3977. November 2, 1935. Papaloapam, Vera Cruz. A variety with hastate, hirsute leaves.

112753 to 112755.

From China. Seeds and cuttings collected by Peter Liu and forwarded by Fred J. Rositer, acting agricultural commissioner, American consulate, Shanghai. Received November 21, 1935.

Introduced for Department specialists.

112753. CASTANEA SEQUINII Dode. Fagaceae.

Small wild chestnuts from near Erh Shih Pa Tu, in Gi Wu district.

For previous introduction see 108555.

112754. TRIPTERYGIUM sp. Celastraceae.

Lei Kung Teng. Cuttings from near Erh Shih Pa Tu, in Gi Wu district.

112755. TRIPTERYGIUM sp. Celastraceae.

Cuttings secured near Shih Hsia K'ou in Chuki district.

112756 to 112759.

From Peru. Bulbs collected by Mrs. Ynes Mexia, Bureau of Plant Industry. Received November 21, 1935.

Introduced for Department specialists.

112756. AMARYLLIS sp. Amaryllidaceae.

No. 7752. October 18, 1935, Distrito Lima, on the road from Chosica to Matucana at 700 feet altitude. A plant about 2 feet high, found on an arid rocky bank. The flowers are reddish orange.

112757. HYMENOCALLIS AMANCAES (Ruiz and Pav.) Nichols. Amaryllidaceae.

Spiderlily.

No. 7755. October 18, 1935, near Lima, at 700 feet altitude. A tender bulbous plant about 2 feet high, with large bright yellow flowers. Native to Peru and Chile.

For previous introduction see 93769.

112758. ZEPHYRANTHES FLAMMEA (Ruiz and Pav.) Baker. Amaryllidaceae.

No. 7754. October 18, 1935, near Lima, at the Escuela Nacional de Agricultura, at 700 feet altitude. A Peruvian zephyranthes with about 5 linear leaves 1 foot long and erect flame-red flowers. Allied to *Zephyranthes aurea*.

112759. ZEPHYRANTHES sp. Amaryllidaceae.

No. 7753. October 20, 1935. On the road from Lima to Chosica, about 600 feet altitude. A plant with bright-orange flowers; found in a cultivated field. Received under the name "igneus," for which a place of publication has not been found.

112760 to 112765.

From the Union of South Africa. Seeds presented by Dr. J. D. J. Hofmeyr, Research Horticulturist, Subtropical Horticultural Research Station, Nelspruit. Received November 21, 1935.

112760 to 112765—Continued.

Introduced for Department specialists.

112760. *CITRULLUS VULGARIS* Schrad. Cucurbitaceae. Watermelon.

Itabha.

112761. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.

Bucoge.

112762. *CUCUMIS MYRIOCARPUS* Naudin. Cucurbitaceae.

Joti. An annual vine native to southern Africa.

112763 and 112764. *CUCURBITA MOSCHATA* Duchesne. Cucurbitaceae. Cushaw.

112763. *Amatanga*. 112764. *Lipati*.

112765. *LAGENARIA LEUCANTHA* (Duchesne) Rusby. Cucurbitaceae. Calabash gourd. *Itanga*.

112766. *PERSEA* SP. Lauraceae.

From Guatemala. Seeds collected by J. H. Kempton, Bureau of Plant Industry, and Wilson Popenoe, United Fruit Co. Received November 25, 1935.

Introduced for Department specialists.

Collected above Tecpan at 9,000 feet altitude.

112767 to 112775. *PHASEOLUS VULGARIS* L. Fabaceae. Common bean.

From Germany. Seeds presented by Dr. Karl Stapp, Biologischen Reichsanstalt für Land und Forstwirtschaft, Berlin-Dahlem. Received November 20, 1935.

Introduced for Department specialists.

112767. No. 12. 112772. No. 89.

112768. No. 16. 112773. No. 100.

112769. No. 27. 112774. No. 125.

112770. No. 38. 112775. No. 196.

112771. No. 82.

112776 to 112794. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

From the State of Chiapas, Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received November 26, 1935.

Introduced for Department specialists.

112776. No. 3610. Collected in the market at Tuxtla Gutierrez, November 7, 1935. Grown by the Indians of this region.

Nos. 112777 to 112779 were collected November 8, 1935, at Simajovel.

112777. No. 3611. Probably *Arcial*, a strong tobacco used for cigars.

112778. No. 3612. *Bajero*.

112779. No. 3613. *Arcial*.

112780. No. 3614. *La Candón*. Collected. November 9, 1935, at Santa Catarina, near Simajovel.

Nos. 112781 to 112784 were collected November 9 and 10, 1935, at Simajovel.

112781. No. 3615. *El Colorado*.

112782. No. 3616. *Arcial chico*.

112783. No. 3617.

112784. No. 3618. *Habanero*.

112776 to 112794—Continued.

Nos. 112785 to 112789 were collected at Huitiupán, November 10, 1935.

112785. No. 3619. *Colorado fuerte*.

112786. No. 3620. *Huimanguillo*.

112787. No. 3621. *Tobaco blanco*.

112788. No. 3622. *La Candón*.

112789. No. 3623. *Chenelmot*.

Nos. 112790 to 112794 were collected at Villa Flores, November 11–12, 1935.

112790. No. 3624. Probably *Corjalero*.

112791. No. 3625. *Hoja blanca*.

112792. No. 3626. Mixed sample, *Hoja blanca* and *Hoja tupida*.

112793. No. 3627. *Hoja larga*.

112794. No. 3628. Mixed sample.

112795 to 112802. *IRIS* spp. Iridaceae.

From the Netherlands. Bulbs purchased from C. G. Van Tubergen Ltd., Zwanenburg Nurseries, Haarlem. Received November 27, 1935.

Introduced for Department specialists.

112795. *IRIS* HOOGIANA Dykes. Redbeard iris.

For previous introduction see 65057.

112796 to 112798. *IRIS* KOROLKOWI Regel. Redvein iris.

112796. The type.

112797. *Concolor*.

112798. *Violacea*.

112799. *IRIS* LORTETH Barbey. Lebanon iris.

For previous introduction and description see 112600.

112800. *IRIS* HELENÆ Barbey.

For previous introduction see 106259.

112801 and 112802. *IRIS* STOLONIFERA Maxim.

112803 to 112812. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

From the Departamento Antioquia, Colombia. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received November 29, 1935.

Introduced for Department specialists.

112803. No. 17. *Zapatoca*. Collected at Bolivar, October 31, 1935.

112804. No. 20. *Cubano*. From Pedro Antonio Restrepo, November 4, 1935.

112805. No. 21. *Zapatoca*. Collected near Remolino, November 6, 1935.

Nos. 112806 to 112810 were collected at Bolivar, November 7, 1935.

112806. No. 22. *Zapatoca*.

112807. No. 23. *Girón*.

112808. No. 24. *Zapatoca*.

112809. No. 25. *Tabaco de olor* from the hacienda "Tebaida."

112810. No. 26. *Cordoncillo*.

Nos. 112811 and 112812 were collected in the Andes, November 3, 1935.

112803 to 112812—Continued.

112811. No. 18. *Zapatooca*.112812. No. 19. *Cordoncillo*.112813 to 112817. *ARACHIS HYPOGAEA* L.
Fabaceae. Peanut.

From Brazil. Seeds presented by the Ministerio da Agricultura, Departamento Nacional da Produção Vegetal, Rio de Janeiro. Received November 23, 1935.

Introduced for Department specialists.

112818. *BALSAMOCITRUS DAWEI* Stapf.
Rutaceae.

From Cuba. Seeds presented by Robert M. Grey, Superintendent, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received November 25, 1935.

Introduced for Department specialists.

Seeds originally from the Forest Department, Uganda, Africa.

112819. *CITRUS* sp. Rutaceae.

From Colombia. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received November 22, 1935.

Introduced for Department specialists.

From Andes, Departamento de Antioquia, November 5, 1935.

112820 to 112831. *NICOTIANA TABACUM* L.
Solanaceae. Common tobacco.

From Mexico and Guatemala. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received December 3, 1935.

Introduced for Department specialists.

Nos. 112820 and 112821 were collected at Huixtla, Chiapas, Mexico.

112820. No. 3633. November 13, 1935.

112821. No. 3634. November 14, 1935.

Nos. 112822 to 112829 were collected November 15, 1935, at Retalhuleu, Guatemala.

112822. No. 3635. A mixed sample, said to be *Copán* and *Punta de lanza*.

112823. No. 3636. *Copán*, perhaps.112824. No. 3637. *Copán*, perhaps.112825. No. 3638. *Punta de lanza*.112826. No. 3639. *Virginia*.112827. No. 3640. *Cubano*.

112828. No. 3641.

112829. No. 3642. *Tabaco cimarrón*.

Nos. 112830 and 112831 were collected November 4, 1935, at Encarnación de Díaz, Jalisco.

112830. No. 3643. A mixed sample containing *Hoja ancha*, *Cuerna de cabra*, and others.

112831. No. 3644.

112832 to 112851.

From Guatemala and Mexico. Seeds collected by J. H. Kempton, Bureau of Plant Industry. Received November 26, 1935.

Introduced for Department specialists.

168999-40—3

112832 to 112851—Continued.

112832 to 112834. *EUCHLAENA MEXICANA*
Schrad. Poaceae. Teosinte.

For previous introduction see 107435.

112832. From Huehuetenango, Guatemala; presented by Rudolf Apel.

112833. Collected October 19, 1935, on Lake Retana, Guatemala, by J. H. Kempton and Wilson Popenoe.

112834. Collected near Jutiapa, Guatemala, October 21, 1935.

112835. *LYCOPERSICON ESCULENTUM* Mill.
Solanaceae. Tomato.

From Huehuetenango, Guatemala, October 26, 1935. A wild tomato.

112836. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

Collected November 9, 1935, at San Cristobal, Chiapas, Mexico, at 7,000 feet altitude.

112837. *RUBUS* sp. Rosaceae.

Moro. From Los Escuentios, Quetzaltenango, Guatemala, October 26, 1935, at 9,500 feet altitude. Collected by Messrs. Kempton and Popenoe.

112838. *TRIPSACUM* sp. Poaceae.

From San Pedro, Chiapas, Mexico, at 5,600 feet altitude.

112839 to 112851. *ZEA MAYS* L. Poaceae.
Corn.

Nos. 112839 to 112847 were collected in Guatemala.

112839. From San Sebastian, October 27, 1935.

112840. From Lake Retana, October 19, 1935.

112841. From near Jutiapa, October 18, 1935.

112842. From Nojoyá, November 1, 1935.

112843. From near Jutiapa, October 18, 1935. Said to be 60-day corn.

112844. From near Jutiapa, October 18, 1935.

112845. From Democracia, October 30, 1935.

112846. From Chanquejelve, November 3, 1935; 40-day corn.

112847. From Lake Retana, October 19, 1935.

Nos. 112848 and 112849 were collected in San Cristobal, Mexico, November 7, 1935.

112848. 112849.

112850. From San Antonio Huista, Guatemala, October 31, 1935.

112851. From San Cristobal, Mexico, November 7, 1935.

112852. *TEPHROSIA* sp. Fabaceae.

From Mexico. Seeds collected by W. A. Archer, Bureau of Plant Industry. Received November 26, 1935.

No. 3632. November 6, 1935. From Arriaga, Chiapas, Mexico; introduced for Department specialists.

112853 to 112856.

From the Union of Soviet Socialist Republics. Bulbs and roots presented by the Botanical Institute, Askhabad, Turkistan. Received December 2, 1935.

Introduced for Department specialists.

112853. ALLIUM CRISTOPHI Trautv. Liliaceae.

An allium of the *Molium* section, with a large dense umbel of deep-lilac flowers. Native to Turkistan.

112854. EMINIUM LEHMANNI (Bunge) Kuntze. Araceae.

An herb resembling an arisaema, with fleshy, radical narrow-lanceolate leaves about 1 foot long and a solitary scape about as long, with a green spathe and a purple-black spadix. Native to central Asia.

112855. EREMURUS OLGAE Regel. Liliaceae.

A hardy herbaceous perennial with white flowers produced in a dense raceme. Native to Turkistan.

For previous introduction see 107527.

112856. LEONTICE EVERSMAINI Bunge. Berberidaceae.

A herbaceous perennial about 1 foot high, with pinnatisect leaves and terminal racemes of small yellow flowers. Native to Turkistan.

For previous introduction see 108931.

112857. LILIUM TSINGTAUENSE Gilg. Liliaceae. Lily.

From England. Bulbs purchased from W. A. Constable, Southborough, Tunbridge Wells. Received December 5, 1935.

Introduced for Department specialists.

A lily of the *Pseudolirion* group, up to 3 feet high, with scattered and whorled oblong-oblancoate leaves, and one to six inodorous orange flowers, the segments about 2 inches long. Native to Shantung, China, and Chosen.

112858. SALVIA CAMPANULATA Wall. Menthaceae. Sage.

From Scotland. Seeds presented by Prof. W. Wright Smith, Regius Keeper, Royal Botanic Gardens, Edinburgh. Received February 8, 1933. Numbered in December 1935.

Introduced for Department specialists.

A stout perennial, 2 to 3 feet high, with ascending hirsute stems and ovate, cordate-crenate leaves on long petioles. The large flowers, yellow with purple dots, are in axillary or terminal racemes. Native to the Himalayas at altitudes between 9,000 and 13,000 feet.

For previous introduction see 42627.

112859. STYRAX OFFICINALIS L. Styracaceae. Snowbell.

From England. Seeds presented by Collingwood Ingram, The Grange, Benenden, Kent. Received November 20, 1935.

Introduced for Department specialists.

For previous introduction see 109578.

112860. ZEPHYRANTHES sp. Amaryllidaceae.

From Central America. Bulbs collected at Retalhuen, Guatemala, by W. A. Archer, Bureau of Plant Industry. Received December 3, 1935.

No. 3645. Introduced for Department specialists.

112861 to 113003.

From Oceania. Cuttings collected by E. W. Brandes, Bureau of Plant Industry. Received December 7, 1935.

Introduced for Department specialists.

112861 to 113000. SACCHARUM spp. Poaceae. Sugarcane.**112861 to 112998. SACCHARUM OFFICINARUM** L.

From New Caledonia.

112861. N. C. No. 2. *Gaa*.

112862. N. C. No. 3. *Griyayio*.

112863. N. C. No. 4. *Quilmoin*.

112864. N. C. No. 5. *Necrapati*.

112865. N. C. No. 6. *Muta*.

112866. N. C. No. 7. *Doumou*.

112867. N. C. No. 8. *Moumouze*.

112868. N. C. No. 9. *M'be*.

112869. N. C. No. 10. *M'Burati*.

112870. N. C. No. 11. *Kavarengri*.

112871. N. C. No. 12. *M'Burati*.

112872. N. C. No. 13. *Necrapati*.

112873. N. C. No. 14. *Domou*.

112874. N. C. No. 15. *Niadicoin*.

112875. N. C. No. 16. *Hei*.

112876. N. C. No. 17. *Kimoi*.

112877. N. C. No. 18. *Ti Meuri*.

112878. N. C. No. 19. *Domu-poa*.

112879. N. C. No. 20. *Ti-ma*.

112880. N. C. No. 21. *Wee muru*.

112881. N. C. No. 22. *Unituta*.

112882. N. C. No. 23. *M'de*.

112883. N. C. No. 24. *Ti Degalet*.

112884. N. C. No. 25. *Ti-Oue Mato*.

112885. N. C. No. 26. *Ti-Ouiji*.

112886. N. C. No. 27. *Ti Kula*.

112887. N. C. No. 28. *Ti EH*.

112888. N. C. No. 29. *Ti Belecure*.

112889. N. C. No. 30. *Ti-Javeu*.

112890. N. C. No. 31. *Domu meuri*.

112891. N. C. No. 32. *Demboara*.

112892. N. C. No. 33. *Motrate pouara*.

112893. N. C. No. 34. *Ouepoa*.

112894. N. C. No. 35. *Candi-boue*.

112895. N. C. No. 36 (101) *Cale*.

112896. N. C. No. 37. *Pochuj*.

112897. N. C. No. 38. *Popo*.

112861 to 113003—Continued.

112898. N. C. No. 39. *Bereouto*.
 112899. N. C. No. 40. *Bouiredé*.
 112900. N. C. No. 41. *Kouira*.
 112901. N. C. No. 42. *Monda*.
 112902. N. C. No. 43. *Tya*.
 112903. N. C. No. 44. *Cande*.
 112904. N. C. No. 45. *Oue-mere*.
 112905. N. C. No. 46. *Mouda*.
 112906. N. C. No. 47. *Fonelesien*.
 112907. N. C. No. 48. *Gah-ee*.
 112908. N. C. No. 49. *Poulehava*.
 112909. N. C. No. 50. *Poe*.
 112910. N. C. No. 51. *Ouere*.
 112911. N. C. No. 52. *Kaza*.
 112912. N. C. No. 53. *Dimehoue*.
 112913. N. C. No. 54. *Poe magere*.
 112914. N. C. No. 55. *Boare*.
 112915. N. C. No. 56. *Kasia*.
 112916. N. C. No. 57. *Kamae mevere*.
 112917. N. C. No. 58. *Pidarra*.
 112918. N. C. No. 59. *Deuserou*.
 112919. N. C. No. 60. *Dioumoa*.
 112920. N. C. No. 61. *Devoro*.
 112921. N. C. No. 62. *Poe me*.
 112922. N. C. No. 63. *Mida*.
 112923. N. C. No. 64. *Dieumeka*.
 112924. N. C. No. 65. *Debranaona mi*.
 112925. N. C. No. 66. *Rereande*.
 112926. N. C. No. 67. *Deonerea mi*.
 112927. N. C. No. 68. *Debrouona*.
 112928. N. C. No. 69. *Poe*.
 112929. N. C. No. 70. *Ranvu*.
 112930. N. C. No. 71. *Seenimba*.
 112931. N. C. No. 72. *Commissaire*.
 112932. N. C. No. 73. *Dekare*.
 112933. N. C. No. 74. *Dekare*.
 112934. N. C. No. 75. *Ware Bouke*.
 112935. N. C. No. 76. *Boare mi*.
 112936. N. C. No. 77. *St. Louis*.
 112937. N. C. No. 78. *Deouerea*.
 112938. N. C. No. 79. *Ranvu me*.
 112939. N. C. No. 80. *Mejdoikue*.
 112940. N. C. No. 81. *Reurenkadi*.
 112941. N. C. No. 82. *Ranvubeuhe*.
 112942. N. C. No. 83. *Degare*.
 112943. N. C. No. 84. *Piradakoue*.
 112944. N. C. No. 85. *Pirada*.
 112945. N. C. No. 86. *Deouacoue*.
 112946. N. C. No. 87. *Ravukouerivara*.
 112947. N. C. No. 88. *Ouereghenini*.
 112948. N. C. No. 89. *Tiavi*.
 112949. N. C. No. 90. *Ranranzari*.

112861 to 113003—Continued.

112950. N. C. No. 91. *Reanvo*.
 112951. N. C. No. 92. *Me eou*.
 112952. N. C. No. 93. *Bouai*.
 112953. N. C. No. 94. *Eveu*.
 112954. N. C. No. 95. *Dioumoi*.
 112955. N. C. No. 96. *Meavoire*.
 112956. N. C. No. 97. *Taijama*.
 112957. N. C. No. 98. *Rerein*.
 112958. N. C. No. 99. *Dewoie*.
 112959. N. C. No. 101. *Covopoilahon*.
 112960. N. C. No. 102. *Mivahgiti*.
 112961. N. C. No. 103. *Kiboit*.
 112962. N. C. No. 104. *Kavoolan*.
 112963. N. C. No. 105. *Ti livi*.
 112964. N. C. No. 106. *Bourail*.
 112965. N. C. No. 107. *Pereda*.
 112966. N. C. No. 108. *Tribu Bagu-
anda*.
 112967. N. C. No. 109. *Tribu Ouene*.
 112968. N. C. No. 110. *Tribu de
Ouemba*.
 112969. N. C. No. 111. *Tribu de
Tieta*.
 112970. N. C. No. 112. *Tribu de
Tieta*.
 112971. N. C. No. 113. *Tribu de Tieta*.
 112972. N. C. No. 114. *Tribu de Tieta*.
 112973. N. C. No. 115. *Tribu de
Ouengo*.
 112974. N. C. No. 116. *Tribu de Boyen*.
 112975. N. C. No. 117. *Tribu de
Temala*.
 112976. N. C. No. 118. *Tribu de Oue-
lisse*.
 112977. N. C. No. 119. *Tribu de Oue-
lisse*.
 112978. N. C. No. 120. *Tribu de
Ounjo*.
 112979. N. C. No. 121. *Tribu de
Ounjo*.
 112980. N. C. No. 122. *Daou*.
 112981. N. C. No. 123. *Phibane*.
 112982. N. C. No. 124. *Thabou No. 1*.
 112983. N. C. No. 125. *Djischa*.
 112984. N. C. No. 126. *Thiboudjane*.
 112985. N. C. No. 127. *Tascani*.
 112986. N. C. No. 128. *Zhakumane*.
 112987. N. C. No. 129. *Xalome*.
 112988. N. C. No. 130. *Ocamoa*.
 112989. N. C. No. 131. *Dekare*.
 From Efate, New Hebrides.
 112990. N. H. No. 2. *Karamu*.
 112991. N. H. No. 3. *Ti Memelu*.
 From Tongatabu, Tonga Islands.
 112992. Tonga No. 1. *To Helevaka*.
 112993. Tonga No. 2. *To Aukula*.

112861 to 113003—Continued.

112994. Tonga No. 3. *To Pupuho*.112995. Tonga No. 4. *To M'Gata pule*.112996. Tonga No. 5. *To Toufau*.112997. Tonga No. 6. *To M'Gata hina*.

From Raiatea, Society Islands.

112998. Raiatea No. 2.

112999. *SACCHARUM* sp.

No. *N. H. 1. Nassa-u*. From Efate, New Hebrides. Received under the name "robustum," a name not properly published.

113000. *SACCHARUM SPONTANEUM* L.

No. 1. From New Caledonia. A wild cane.

113001 to 113003. *ERIANTHUS MAXIMUS* Brongn. Poaceae.

A perennial reedlike grass closely related to sugarcane and native to Polynesia.

113001. No. 100. From New Caledonia.

113002. No. 132. From New Caledonia.

113003. No. 1. From Raiatea, Society Islands.

113004. *HABRANTHUS CARDINALIS* (C. H. Wright) Sealy. Amaryllidaceae.

From the Bahama Islands. Bulbs purchased from Miss Violet Brace, Nassau, New Providence. Received December 10, 1935.

Introduced for Department specialists.

A low bulbous plant with shining green, strap-shaped leaves 6 inches long. The cardinal-red, funnel-shaped flowers, 2 to 3 inches long, are borne on cylindrical scapes which are red at the base and green above. Native to tropical America.

For previous introduction see 99642.

113005. *BAUHINIA GALPINI* N. E. Brown. Caesalpinaceae.

From Cuba. Seeds presented by Robert M. Grey, Superintendent, Atkins Institution of the Arnold Arboretum, through F. G. Walsingham, Soledad, Cienfuegos. Received December 4, 1935.

Introduced for Department specialists.

For previous introduction see 106915.

113006 to 113270.

From China. Seeds collected in Suiyuan Province by the Asiatic Expedition. Received November 13, 1935.

Introduced for Department specialists.

113006 to 113049. *AGROPYRON* spp. Poaceae. Wheatgrass.113006 to 113025. *AGROPYRON CRISTATUM* (L.) Gaertn.

Nos. 113006 and 113007 were collected at Shiretu Obo, August 6, 1935.

113006. No. 1. 113007. No. 3.

Nos. 113008 to 113010 were collected at Khara Sair, August 7, 1935.

113008. No. 4. 113010. No. 6.

113009. No. 5.

113006 to 113270—Continued.

Nos. 113011 and 113012 were collected at Naran Obo, August 8, 1935.

113011. No. 7. 113012. No. 8-A.

Nos. 113013 and 113014 were collected at Bayin Obo, August 9, 1935.

113013. No. 10. 113014. No. 16.

113015. No. 19. From Bulugin Ama, August 10, 1935.

Nos. 113016 to 113021 were collected August 11, 1935.

113016. No. 21. From the steppe near Darkhan Wang Fu.

113017. No. 22. From Bulugin Ama.

113018. No. 25. From the steppe near Darkhan Wang Fu.

113019. No. 27. From Bulugin Ama.

113020. No. 30. From the steppe near Darkhan Wang Fu.

113021. No. 31. From the steppe near Darkhan Wang Fu.

113022. No. 32. From Shara Muren, August 15, 1935.

Nos. 113023 to 113025 were collected August 18, 1935; from the steppe near Darkhan Wang Fu.

113023. No. 35-A. 113025. No. 58.

113024. No. 57.

113026. *AGROPYRON GMELINI* (Griseb.) Scribn. and Smith.

No. 39-A. Collected August 22, 1935, from the mountains northeast of Batu Khalkha.

For previous introduction see 98527.

113027. *AGROPYRON SEMICOSTATUM* Nees. No. 60.113028 to 113049. *AGROPYRON SIBIRICUM* (Willd.) Beauv.

Nos. 113028 to 113030 were collected August 9, 1935, at Bayin Obo.

113028. No. 9. 113030. No. 12.

113029. No. 11.

Nos. 113031 and 113032 were collected August 9, 1935, at Batu Khalkhin Gol.

113031. No. 13. 113032. No. 14.

Nos. 113033 to 113035 were collected August 9, 1935, at Bayin Obo.

113033. No. 15. 113035. No. 18.

113034. No. 17.

Nos. 113036 to 113040 were collected August 11, 1935, from the steppe near Darkhan Wang Fu.

113036. No. 20. 113039. No. 28.

113037. No. 23. 113040. No. 29.

113038. No. 24.

113041. No. 35-B. August 18, 1935, from Khara Sair.

113042. No. 36-A. August 19, 1935, from the steppe near Darkhan Wang Fu.

113006 to 113270—Continued.

- Nos. 113043 to 113046 were collected September 1, 1935, at Batu Khalkhin Gol.
113043. No. 48. 113045. No. 51.
113044. No. 50. 113046. No. 52.
113047. No. 54. From Mu Usu, September 2, 1935.
113048. No. 59.
113049. No. 254. From Pelyin Obo, August 9, 1935.
- 113050 to 113055. *ALLIUM* spp. Liliaceae.
113050. No. 214. Collected August 21, 1935, at Naran Obo.
113051. No. 215. Collected August 23, 1935, at Khara Sair.
113052. No. 216. Collected August 24, 1935, at Darkhan Wang Fu.
113053. No. 217. Collected August 25, 1935.
113054. No. 218. Collected August 25, 1935, at Batu Khalkha.
113055. No. 219. Collected August 27, 1935, at Khara Sair.
113056. *ALYSSUM* sp. Brassicaceae.
No. 251. Collected August 25, 1935, at Shara Muren.
- 113057 to 113061. *AMYGDALUS* spp. Amygdalaceae.
Nos. 113057 and 113058 were collected in the vicinity of Batu Khalkha.
113057. No. 228. August 22, 1935.
113058. No. 229. August 24, 1935.
113059. No. 230. August 25, 1935, from Naran Obo.
113060. No. 231. August 28, 1935, from Chimiste Ula.
113061. No. 232.
113062. *ANEMARRHENA ASPHODELOIDES* Bunge. Liliaceae.
No. 260. August 7, 1935. From Temur Hada. A herbaceous perennial 2 to 3 feet high, with a short thick rhizome, numerous grasslike leaves, and small lilac flowers in a spikelike raceme on a scape about as long as the leaves. Native to northeastern China.
- 113063 to 113069. *ASPARAGUS* spp. Convolvulariaceae.
113063. No. 238. From Pai Ling Miao, August 5, 1935.
113064. No. 239. From Temur Hada, August 7, 1935.
113065. No. 240. From Naran Obo, August 8, 1935.
113066. No. 241. From Temur Hada, August 18, 1935.
113067. No. 242. From Naran Obo, August 20, 1935.
113068. No. 243. From Khara Sair, August 27, 1935.
113069. No. 244. From Temur Hada, August 27, 1935.

113006 to 113270—Continued.

- 113070 to 113084. *ASTRAGALUS MELILOTOIDES* Pall. Fabaceae.
Nos. 113070 to 113072 were collected near Temur Hada.
113070. No. 151. August 7, 1935.
113071. No. 153. August 11, 1935.
113072. No. 154. August 13, 1935.
113073. No. 155. From Khara Sair, August 19, 1935.
113074. No. 158. From Naran Obo, August 20, 1935.
113075. No. 159. From Khara Sair, August 23, 1935.
113076. No. 160. From Batu Khalkha, August 24, 1935.
- Nos. 113077 to 113080 were collected at Temur Hada, August 25, 1935.
113077. No. 161. 113079. No. 163.
113078. No. 162. 113080. No. 164.
- Nos. 113081 to 113084 were collected at Naran Obo, August 31, 1935.
113081. No. 165. 113083. No. 167.
113082. No. 166. 113084. No. 167-A.
113085. *ASTRAGALUS* sp. Fabaceae.
No. 187.
113086. *BERBERIS* sp. Berberidaceae.
No. 261. From Batu Khalkha, August 22, 1935.
113087. *BERBERIS* sp. Berberidaceae.
No. 203. From Chimiste Ula, August 3, 1935.
113088. *CALAMAGROSTIS PSEUDOPHRAGMITES* (Hall. f.) Koel. Poaceae. **Reedgrass.**
No. 247. From Khara Sair, August 14, 1935.
- 113089 to 113091. *CARAGANA* spp. Fabaceae.
113089. No. 183. From Pai Ling Miao, August 5, 1935.
113090. No. 184. From the steppe near Shara Muren, August 7, 1935.
113091. No. 186. From Temur Hada, July 30, 1935.
113092. *CLEMATIS* sp. Ranunculaceae.
No. 248. From the vicinity of Temur Hada, August 21, 1935.
113093. *CLEMATIS* sp. Ranunculaceae.
No. 249. From Khara Sair, August 23, 1935.
- 113094 to 113101. *COTONEASTER* spp. Malvaceae.
113094. *COTONEASTER RACEMIFLORA* (Desf.) Koch.
No. 227.
- Nos. 113095 to 113100 were collected at Batu Khalkha.
113095. *COTONEASTER* sp.
No. 220. Collected August 22, 1935.

113006 to 113270—Continued.

113096. *COTONEASTER* sp.
No. 221. Collected August 22, 1935.
113097. *COTONEASTER* sp.
No. 222. Collected August 24, 1935.
113098. *COTONEASTER* sp.
No. 223. Collected August 25, 1935.
113099. *COTONEASTER* sp.
No. 224. Collected August 26, 1935.
113100. *COTONEASTER* sp.
No. 225. Collected August 26, 1935.
113101. *COTONEASTER* sp.
No. 226. From Chimiste Ula, August 29, 1935.
- 113102 to 113153. *ELYMUS* spp. Poaceae.
- 113102 to 113123. *ELYMUS* *ANGUSTUS* Trin.
113102. No. 61. From Temur Hada, September 4, 1935.
Nos. 113103 to 113106 were from Bulugin Ama, September 4, 1935.
113103. No. 63.
113104. No. 64.
113105. No. 65.
113106. No. 68.
- Nos. 113107 to 113111 were collected August 9, 1935.
113107. No. 70. From Ulan Obo.
113108. No. 71. From Olon Sumu.
113109. No. 72. From Ulan Obo.
113110. No. 73. From Ulan Obo.
113111. No. 74. From Ulan Obo.
113112. No. 76. From Khara Sair, August 13, 1935.
113113. No. 78. From Temur Hada, August 13, 1935.
113114. No. 80. From Bulugin Ama, August 19, 1935.
- Nos. 113115 to 113117 were collected at Khara Sair.
113115. No. 87-A. August 31, 1935.
113116. No. 83. August 23, 1935.
113117. No. 84. August 23, 1935.
113118. No. 266. From Ulan Obo, August 9, 1935.
113119. No. 33. From Bulugin Ama, August 15, 1935.
113120. No. 37. From Naran Obo, August 20, 1935.
113121. No. 39. From Batu Khalkha, August 22, 1935.
113122. No. 41. From Darkhan Wang Fu, August 28, 1935.
113123. No. 45. From Naran Obo, August 29, 1935.
113124. *ELYMUS* *DAHURICUS* Turcz.
No. 86. From Bulugin Ama, August 29, 1935.

113006 to 113270—Continued.

113125. *ELYMUS* *DASYSTACHYS* Trin.
[Received without notes.]
- 113126 to 113153. *ELYMUS* *PSEUDO-AGROPYRON* Trin.
113126. No. 36. From Bulugin Ama, August 19, 1935.
113127. No. 61-A. From Naran Obo, July 24, 1935.
- Nos. 113128 to 113131 were from Bulugin Ama, August 4, 1935.
113128. No. 62. 113130. No. 67.
113129. No. 66. 113131. No. 69.
113132. No. 77. From Khara Sair, August 13, 1935.
113133. No. 79. From Temur Hada, August 13, 1935.
113134. No. 82. From Naran Obo, August 22, 1935.
113135. No. 88. From Batu Khalkhin Gol, September 1, 1935.
113136. No. 2. From Shiretu Obo, August 6, 1935.
113137. No. 8. From Naran Obo, August 8, 1935.
113138. No. 26. From Darkhan Wang Fu, August 11, 1935.
113139. No. 34. From Hai Pa Tzu, August 16, 1935.
113140. No. 35. From Khara Sair, August 17, 1935.
113141. No. 38. From Naran Obo, August 21, 1935.
113142. No. 40. From Naran Obo, August 22, 1935.
113143. No. 40-A. From Khara Sair, August 23, 1935.
113144. No. 42. From Darkhan Wang Fu, August 27, 1935.
- Nos. 113145 and 113146 were from Mu Usu, August 27, 1935.
113145. No. 43. 113146. No. 44.
- Nos. 113147 and 113148 were from the steppe near Darkhan Wang Fu, August 30, 1935.
113147. No. 46. 113148. No. 47.
113149. No. 49. From Batu Khalkha, September 1, 1935.
- Nos. 113150 to 113152 were from Mu Usu, September 2, 1935.
113150. No. 53. 113152. No. 56.
113151. No. 55.
113153. [No number.] From the steppe near Olon Sumu, September 2, 1935.
- 113154 to 113156. *EPHEDRA* spp. Gneta-ceae.
113154. No. 200. From Naran Obo, August 11 and 12, 1935.
113155. No. 201. From Temur Hada, August 12, 1935.
113156. No. 202. From Shara Muren, August 14, 1935.

113006 to 113270—Continued.

113157 to 113164. *ERAGROSTIS* spp. Poaceae.

Nos. 113157 to 113162 were from Temur Hada.

113157 to 113159. *ERAGROSTIS PILOSA* (L.) Beauv.

113157. No. 102. August 21, 1935.

113158. No. 103. August 22, 1935.

113159. No. 106. August 27, 1935.

113160 to 113164. *ERAGROSTIS POAEOIDES* (L.) Beauv.

113160. No. 101. August 21, 1935.

113161. No. 104. August 22, 1935.

113162. No. 105. August 22, 1935.

113163. No. 107. From Darkhan Wang Fu, August 27, 1935.

113164. No. 108. From Temur Hada. August 28, 1935.

113165. *FESTUCA* sp. Poaceae.

No. 129. From the vicinity of Pai Ling Miao, August 8, 1935.

113166 to 113168. *HORDEUM BREVISUBULATUM* (Trin.) Link. Poaceae.

A perennial grass native to Siberia.

113166. No. 126. From Batu Khalkha, August 8, 1935.

113167. No. 127. From Olon Sumu, August 9, 1935.

113168. No. 128. From Ulan Obo, August 9, 1935.

113169 and 113170. *HYOSCYAMUS NIGER* L. Solanaceae. Henbane.

Collected August 27, 1935, at Khara Sair.

113169. No. 269. 113170. No. 270.

113171. *INDIGOFERA* sp. Fabaceae.

No. 185. From Ulan Obo, August 25, 1935.

113172 to 113187. *IRIS* spp. Iridaceae.

113172 to 113180. *IRIS VENTRICOSA* Pall.

An Apogon iris with thick linear leaves about 1 foot long and a stem with usually two pale blue flowers, the falls narrow, with an obovate blade and lanceolate standards. Native to central Asia.

113172. No. 190. From Temur Hada. August 4, 1935.

113173. No. 191. From Pai Ling Miao, August 5, 1935.

113174. No. 192. From Darkhan Wang Fu, August 6, 1935.

113175. No. 194. From Naran Obo. August 16, 1935.

113176. No. 195. From Batu Khalkha, August 15-17, 1935.

113177. No. 196. From Mu Usu, August 27, 1935.

113178. No. 197. From Mu Usu, August 27, 1935.

113179. No. 198. From Batu Khalkha, August 28, 1935.

113006 to 113270—Continued.

113180. No. 199. From Darkhan Wang Fu, August 6, 1935.

113181. *IRIS* sp.

No. 184-A. From Darkhan Wang Fu, August 1935. A broad-leaved species.

Nos. 113182 to 113186; broad-leaved species collected at Bulugin Ama.

113182. *IRIS* sp.

No. 185-A. August 4, 1935.

113183. *IRIS* sp.

No. 186-A. August 10, 1935.

113184. *IRIS* sp.

No. 187-A. August 10, 1935.

113185. *IRIS* sp.

No. 188-A. August 10, 1935.

113186. *IRIS* sp.

No. 189. August 11, 1935.

113187. *IRIS* sp.

No. 193. From Darkhan Wang Fu, August 11, 1935.

113188 to 113191. *KOELERIA GRACILIS* Pers. Poaceae.

Nos. 113188 to 113191 were collected in the mountains near Batu Khalkha, August 15, 1935.

113188. No. 119. 113190. No. 121.

113189. No. 120. 113191. No. 122.

113192. *LONICERA* sp. Caprifoliaceae.

No. 252. From Chimiste Ula, August 3, 1935.

113193 and 113194. *MELICA SCABROSA* Trin. Poaceae.

113193. No. 90. From Pai Ling Miao, August 5, 1935.

113194. No. 100. August 28, 1935.

113195 to 113203. *MELICA VIRGATA* Turcz. Poaceae.

A perennial grass native to Siberia.

113195. No. 91. From Naran Obo, August 23, 1935.

Nos. 113196 to 113198 were collected at Batu Khalkha, August 24, 1935.

113196. No. 92. 113198. No. 94.

113197. No. 93.

113199. No. 95. From Naran Obo, August 25, 1935.

113200. No. 96. From Temur Hada, August 25, 1935.

113201. No. 97. From Batu Khalkha, August 25, 1935.

113202. No. 98. From Khara Sair, August 27, 1935.

113203. No. 99. From Naran Obo, August 28, 1935.

113204 to 113207. *MELILOTUS* spp. Fabaceae.

113204. No. 152. From Temur Hada, August 7, 1935.

113205. No. 154-A. From Shara Muren, August 15, 1935.

113006 to 113270—Continued.

- Nos. 113206 and 113207; from Khara Sair, August 19, 1935.
113206. No. 156. 113207. No. 157.
113208. *ONOBRYCHIS* sp. Fabaceae.
- No. 255. From a sandy slope beside the river road, August 7, 1935.
- 113209 and 113210. *PLANTAGO* spp. Plantaginaceae.
113209. No. 245. From Batu Khalkha, August 24, 1935.
113210. No. 246. From Temur Hada, August 24, 1935.
- 113211 to 113224. *POA* spp. Poaceae.
Bluegrass.
- 113211 to 113215. *POA SPHONDYLODES* Trin.
113211. No. 130. From Khara Sair, July 23, 1935.
- Nos. 113212 and 113213; from Darkhan Wang Fu, August 13-14, 1935.
113212. No. 131. 113213. No. 132.
- Nos. 113214 and 113215; from Batu Khalkha, August 15, 1935.
113214. No. 133. 113215. No. 134.
113216. *POA COMPRESSA* L.
- No. 135. From Naran Obo, August 16, 1935.
- 113217 to 113221. *POA SPHONDYLODES* Trin.
113217. No. 136. From Temur Hada, August 20, 1935.
113218. No. 137. From Naran Obo, August 21, 1935.
113219. No. 138. From Temur Hada, August 22, 1935.
- Nos. 113220 and 113221; from Batu Khalkha, August 22, 1935.
113220. No. 139. 113221. No. 140.
113222. *POA COMPRESSA* L.
- No. 141. From Batu Khalkha, August 24, 1935.
113223. *POA SPHONDYLODES* Trin.
- No. 142. From Naran Obo, August 25, 1935.
113224. *POA SUBFASTIGIATA* Trin.
- No. 143. From Naran Obo, August 25, 1935. A creeping perennial grass with stems over a foot high. Native to Siberia and Mongolia.
- 113225 to 113231. *PUCCINELLIA DISTANS* (L.) Parl. Poaceae.
- Nos. 113225 to 113229 were collected at Batu Khalkha.
113225. No. 143-A. August 29, 1935.
113226. No. 144. August 29, 1935.
113227. No. 145. August 9, 1935.
113228. No. 146. August 12, 1935.
113229. No. 147. August 12, 1935.
113230. No. 148.
113231. No. 149.

113006 to 113270—Continued.

- 113232 to 113234. *RHAMNUS* spp. Rhamnaceae.
- From Temur Hada.
113232. No. 233. August 29, 1935.
113233. No. 234. August 29, 1935.
113234. No. 235. September 2, 1935.
- 113235 to 113237. *RIBES* spp. Grossulariaceae.
113235. *RIBES* sp.
- No. 267. From Batu Khalkha, August 25, 1935.
113236. *RIBES* sp.
- No. 236. From Batu Khalkha, August 28, 1935.
113237. *RIBES* sp.
- No. 237. From Chimiste Ula, August 29, 1935.
- 113238 to 113247. *ROSA* spp. Rosaceae.
Rose.
- From Chimiste Ula, September 29, 1935.
113238. *ROSA* sp. 113243. *ROSA* sp.
- No. 204. No. 209.
113239. *ROSA* sp. 113244. *ROSA* sp.
- No. 205. No. 210.
113240. *ROSA* sp. 113245. *ROSA* sp.
- No. 206. No. 211.
113241. *ROSA* sp. 113246. *ROSA* sp.
- No. 207. No. 212.
113242. *ROSA* sp. 113247. *ROSA* sp.
- No. 208. No. 213.
113248. *RUMEX* sp. Polygonaceae.
- No. 265. Collected along the Batu Khalkha River near Temur Hada, August 12, 1935.
113249. *SETARIA VIRIDIS* (L.) Beauv. Poaceae.
- No. 150. From Khara Sair, August 27, 1935.
- 113250 to 113252. *SILENE* spp. Silenaceae.
113250. *SILENE* sp.
- No. 253. From Temur Hada, August 7, 1935.
- 113251 and 113252. *SILENE APRICA* Turcz.
113251. No. 264. From Temur Hada, August 25, 1935.
113252. No. 268. From Khara Sair, August 27, 1935.
- 113253 to 113265. *STIPA* spp. Poaceae.
Feathergrass.
- 113253 and 113254. *STIPA SIBIRICA* Lam.
- From Naran Obo, August 28 and 29, 1935.
113253. No. 113. 113254. No. 116.
- 113255 to 113262. *STIPA SPLENDENS* Trin.
- Nos. 113255 and 113256; from Naran Obo, August 20, 1935.
113255. No. 109. 113256. No. 110.

113006 to 113270—Continued.

113257. No. 111. From Temur Hada, August 21, 1935.

113258. No. 112. From Darkhan Wang Fu, August 25, 1935.

113259. No. 114. From Darkhan Wang Fu, August 28, 1935.

113260. No. 115. From Naran Obo, August 29, 1935.

113261. No. 117. From Darkhan Wang Fu, September 2, 1935.

113262. No. 118. From Bulugin Ama, September 4, 1935.

113263 to 113265. *STIPA* spp.

From Naran Obo.

113263. No. 123, August 20, 1935.

113264. No. 124, August 19, 1935.

113265. No. 125, August 25, 1935.

113266. *TRIPOGON CHINENSIS* (Franchet) Hack. Poaceae.

No. 263. From Batu Khalkha, August 25, 1935. A perennial grass up to 2 feet high. Native to northern China.

113267. *VICIA* sp. Fabaceae.

No. 258. From Bulugin Ama, August 10, 1935.

113268. *XANTHOCERAS SORBIFOLIA* Bunge. Sapindaceae.

No. 262. From Shara Muren, August 20, 1935.

113269. (Undetermined.)

No. 250. From Batu Khalkha, August 25, 1935.

113270. (Undetermined.)

No. 256. From Khara Sair, August 23, 1935.

113271 to 113273. *FESTUCA* spp. Poaceae. **Fescue.**

From the Netherlands. Seeds presented by Dr. W. C. de Leeuw, Conservator. Botanical Laboratorium, Leiden. Received November 29, 1935.

Introduced for Department specialists.

113271. *FESTUCA MARITIMA* L.

113272. *FESTUCA OVINA* L. **Sheep fescue.**

113273. *FESTUCA VARIA* Haenke.

113274. *TERMINALIA MUELLERI* Benth. Combretaceae.

From Cuba. Seeds presented by Robert M. Grey, Superintendent. Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, through F. G. Walsingham. Received December 9, 1935.

A native Australian species which, under favorable conditions, becomes a large tree with leathery, obovate leaves usually about 4 inches long, loose spikes of small white flowers, and small, ovoid, black fruits.

For previous introduction see 88324.

113275 to 113280.

From Manchuria. Seeds collected by the Asiatic Expedition. Received November 27, 1935.

Introduced for Department specialists.

113275 to 113280—Continued.

Nos. 113275 to 113279 were collected in August 1935 from the valley of the Gan River, Barga District.

113275 and 113276. *ELYMUS PSEUDO-AGROPYRON* Trin. Poaceae.

113275. No. 1. IV. From Mankou.

113276. No. 2. IV.

113277. *HEMEROCALLIS* sp. Liliaceae.

No. 5. IV.

113278. *IRIS DICHOTOMA* Pall. Iridaceae. **Vesper iris.**

No. 3. IV.

For previous introduction see 112278.

113279. *IRIS ORIENTALIS* Mill. Iridaceae.

No. 4. IV.

113280. *MELILOTUS SUAVEOLENS* Ledeb. Fabaceae. **Sweetclover.**

No. 6. IV. September 10, 1935, from Harbin.

113281 to 113288.

From Africa. Seeds presented by R. Andersen, Yapata Estate, Kitale Kenya Colony. Received November 30, 1935.

Introduced for Department specialists.

113281 and 113282. *CROTALARIA* spp. Fabaceae.

Upright plants found growing in grass plains.

113281. *CROTALARIA* sp.

113282. *CROTALARIA* sp.

113283. *ERIOSEMA* sp. Fabaceae.

113284. *INDIGOFEA* sp. Fabaceae.

113285. *TERAMNUS LABIALIS* (L.) Spreng. Fabaceae.

A plant found climbing over high grass.

For previous introduction see 99006.

113286. *VIGNA* sp. Fabaceae.

A slender vine found in open grass plains.

113287. (Undetermined.)

A leguminous vine.

113288. (Undetermined.)

A leguminous vine found among rocks in high grass.

113289. *PINUS EDULIS* Engelm. Pinaceae. **Nut pine.**

From Mexico. Seeds presented by Victor Riverole, Mexico City. Received December 4, 1935.

Introduced for Department specialists.

For previous introduction see 104162.

113290 to 113299. *HELENIUM* spp. Asteraceae.

From Germany. Plants purchased from Karl Foerster, Bornim-Potsdam-Sanssouci. Received December 11, 1935.

Introduced for Department specialists.

113290. *HELENIUM BIGELOVII* A. Gray.

Superbum, a large brown-flowered variety.

113290 to 113299—Continued.

113291. HELENIUM.

Chipperfield orange. A tall hybrid with long-blooming orange flowers.

113292. HELENIUM.

Coccineum bruneum. A tall hybrid with deep reddish-brown flowers.

113293. HELENIUM.

Crimson Beauty. A short hybrid with bronze-carmine flowers.

113294. HELENIUM.

Goldene Jugend. A tall hybrid with yellow flowers.

113295. HELENIUM.

Baronin Linden. A tall hybrid with golden-brown flowers.

113296. HELENIUM.

Moerheim Beauty. A dwarf hybrid with bright red-brown flowers.

113297. HELENIUM.

Peregrina. A tall hybrid with dark-brown flowers.

113298. HELENIUM AUTUMNALE L.

Pumilum magnificum. A dwarf variety with golden-yellow flowers.

113299. HELENIUM.

Wyndley. A dwarf hybrid with brown flowers.

113300 to 113391.

From China. Seeds collected in Suiyuan Province by the Asiatic Expedition. Received November 15, 1935.

Introduced for Department specialists.

Nos. 113300 to 113391 were collected as cultivated plants in August and September 1935.

113300. ABRUS PRECATORIUS L. Fabaceae.
Rosary-pea.

No. 281 [62].

113301. ALLIUM FISTULOSUM L. Liliaceae.
Welsh onion.

No. 331.

113302. ALLIUM sp. Liliaceae.

No. 329.

113303. AMARANTHUS PANICULATUS L. Amaranthaceae.
Tassel amaranth.

No. 301. The seed is roasted or popped, ground into meal, and made into sweet cakes; the meal is also eaten with sugar and milk.

For previous introduction see 97713.

113304. APIUM GRAVEOLENS L. Apiaceae.
Celery.

No. 287 [41].

113305. AVENA NUDA Hoejer. Poaceae.
Naked oats.

No. 340 [5].

113306. BETA VULGARIS L. Chenopodiaceae.
Common beet.

No. 323 [59].

113307 to 113314. BRASSICA spp. Brassicaceae.

113307. BRASSICA CHINENSIS Jusl.

No. 312 [35]. A variety which does not form a head.

For previous introduction see 80580.

113300 to 113391—Continued.

113308. BRASSICA PEKINENSIS (Lour.) Rupr.

No. 303 [37].

113309 to 113314. BRASSICA spp.

113309. No. 309 [38].

113310. No. 311 [13].

113311. No. 314 [39].

113312. No. 327 [36].

113313. No. 335 [60].

113314. No. 342 [40].

113315. CANNABIS SATIVA L. Moraceae.

No. 337 [11].

113316. CAPSICUM ANNUUM L. Solanaceae.
Common redpepper.

No. 325 [53].

113317 to 113324. CARAGANA spp. Fabaceae.

113317. No. 169.

Nos. 113318 to 113323; from Shara Muren, August 15, 1935.

113318. No. 174. 113321. No. 177.

113319. No. 175. 113322. No. 178.

113320. No. 176. 113323. No. 179.

113324. No. 182. From Batu Khalkha, August 31, 1935.

113325. CHRYSANTHEMUM CORONARIUM L. Asteraceae.
Crowndaisy.

No. 286 [63]. An edible chrysanthemum, the leaves of which are used as a garnish, as flavoring, and also cooked as spinach.

For previous introduction see 80651.

113326. CITRULLUS VULGARIS Schrad. Cucurbitaceae.

No. 289 [26].

113327. CORIANDRUM SATIVUM L. Apiaceae.
Coriander.

No. 295 [58].

For previous introduction see 109057.

113328 to 113333. CUCUMIS MELO L. Cucurbitaceae.
Muskmelon.

113328. No. 283 [30].

113329. No. 288 [25].

113330. No. 294 [33].

113331. No. 300-a [29].

113332. No. 320 [27].

113333. No. 334 [28].

113334. CUCUMIS SATIVUS L. Cucurbitaceae.
Cucumber.

No. 344 [34].

113335. CUCURBITA MOSCHATA Duchesne.
Cushaw.

No. 300 [31].

113336. CUCURBITA PEPO L. Cucurbitaceae.
Pumpkin.

No. 302 [32].

113337 and 113338. DAUCUS CAROTA L. Apiaceae.
Carrot.

113337. No. 304 [48].

113338. No. 336 [49].

113300 to 113391—Continued.

- 113339 to 113343. *ELYMUS* spp. Poaceae.
 113339 and 113340. *ELYMUS* *ANGUSTUS* Trin.
 113339. No. 27. From Darkhan Wang Fu, August 31, 1935.
 113340. No. 29. From Darkhan Wang Fu, September 1, 1935.
 113341. *ELYMUS* *DASYSTACHYS* Trin.
 No. 15. From Bulugin Ama, August 12, 1935.
 113342. *ELYMUS* *ANGUSTUS* Trin.
 No. 21. From Bulugin Ama, August 19, 1935.
 113343. *ELYMUS* *PSEUDO-AGROPYRON* Trin.
 No. 25. From Darkhan Wang Fu, August 24, 1935.
 113344 and 113345. *FAGOPYRON* *ESCULENTUM* Moench. Polygonaceae. Buckwheat.
 113344. No. 278. From the village of Hai Pa Tzu, August 15, 1935.
 113345. No. 297.
 113346. *FOENICULUM* *VULGARE* Hill. Apiaceae. Fennel.
 No. 292 [56].
 113347. *HELIANTHUS* *ANNUUS* L. Asteraceae. Sunflower.
 No. 280 [61].
 113348. *HORDEUM* *DISTICHON* *NUDUM* L. Poaceae. Two-rowed barley.
 No. 332 [2].
 113349 and 113350. *INDIGOFERA* spp. Fabaceae.
 From Ulan Obo, August 8, 1935.
 113349. No. 171 [739].
 113350. No. 172 [739].
 113351 to 113353. *LACTUCA* *SATIVA* L. Cichoriaceae. Garden lettuce.
 113351. No. 315.
 113352. No. 316.
 113353. No. 333 [45].
 113354 and 113355. *LENS* *ESCULENTA* Moench. Fabaceae. Lentil.
 113354. No. 276. From Hai Pa Tzu, August 15, 1935.
 113355. No. 339-A.
 113356. *LINUM* *USITATISSIMUM* L. Linaceae. Flax.
 No. 341.
 113357. *MEDICAGO* *SATIVA* L. Fabaceae. Alfalfa.
 No. 318 [64].
 113358. *NITRARIA* *SCHOBERI* L. Zygophyllaceae.
 No. 271 [803]. From Darkhan Wang Fu, August 22, 1935.
 113359. *ONOBRYCHIS* sp. Fabaceae.
 No. 173. From Shara Muren, August 15, 1935.
 113360. *ORYZA* *SATIVA* L. Poaceae. Rice.
 No. 310.

113300 to 113391—Continued.

- 113361 to 113364. *PANICUM* *MILIACEUM* L. Poaceae. Millet.
 113361. No. 275. From Hai Pa Tzu, August 15, 1935.
 113362. No. 285 [3].
 113363. No. 307.
 113364. No. 319 [4].
 113365 to 113368. *PHASEOLUS* spp. Fabaceae.
 113365. *PHASEOLUS* *ANGULARIS* (Willd.) W. F. Wight. Adzuki bean.
 No. 284 [23].
 113366. *PHASEOLUS* *AUREUS* Roxb. Mung bean.
 No. 321 [19].
 113367. *PHASEOLUS* *VULGARIS* L. Common bean.
 No. 305.
 113368. *PISUM* *SATIVUM* L. Fabaceae. Pea.
 No. 338 [22].
 113369 to 113371. *PSORALEA* spp. Fabaceae.
 From Shara Muren, August 1935.
 113369. No. 183. 113371. No. 170.
 113370. No. 168.
 113372 to 113376. *RAPHANUS* *SATIVUS* L. Brassicaceae. Radish.
 113372. No. 282 [46].
 113373. No. 293 [50].
 113374. No. 296 [47].
 113375. No. 298 [51].
 113376. No. 299 [52].
 113377 and 113378. *RHAMNUS* spp.
 113377. No. 272. 113378. No. 273.
 113379. *SECALE* *CEREALE* L. Poaceae. Rye.
 No. 274. From Hai Pa Tzu, August 15, 1935.
 113380. *SESAMUM* *ORIENTALE* L. Pedaliaceae. Sesame.
 No. 343 [14].
 113381 and 113382. *SOJA* *MAX* (L.) Piper. Fabaceae. Soybean.
 113381. No. 313 [17].
 113382. No. 317 [18].
 113383. *SOLANUM* *MELONGENA* L. Solanaceae. Eggplant.
 No. 326 [55].
 113384. *SORGHUM* *VULGARE* Pers. Poaceae. Sorghum.
 No. 291 [15].
 113385. *SPINACIA* *OLERACEA* L. Chenopodiaceae. Common spinach.
 No. 290 [42].
 113386 and 113387. *TRITICUM* *AESTIVUM* L. Poaceae. Common wheat.
 113386. No. 277.
 113387. No. 324 [1].

113300 to 113391—Continued.

113388. *VICIA FABA* L. Fabaceae. Broadbean.

No. 308 [16].

113389. *VICIA* sp. Fabaceae.

No. 181. From Naran Obo, August 28, 1935.

113390. *VIGNA SINENSIS* (Torner) Savi. Fabaceae. Cowpea.

No. 322 [21].

113391. *ZEA MAYS* L. Poaceae. Corn.

No. 339 [8].

113392 to 113398. *TRITICUM* spp. Poaceae. Wheat.

From England. Seeds presented by Dr. John Percival, University College, Reading. Received December 4, 1935.

Introduced for Department specialists.

113392. *TRITICUM* sp.

No. 1N1. Received as *orientale insigne*, a homonym.

113393. *TRITICUM* sp.

No. 2N4. Received as *orientale notabile*, a homonym.

113394. *TRITICUM* sp.

No. 4P1. Received as *pyramidale captivum*, a homonym.

113395. *TRITICUM* sp.

No. 5P4. Received as *pyramidale pseudocaptivum*, a homonym.

113396. *TRITICUM* sp.

No. 7P1. Received as *pyramidale ptolomaeum*, a homonym.

113397. *TRITICUM* sp.

No. 1P1. "White Saidi." Received as *pyramidale recognitum*, a homonym.

113398. *TRITICUM* sp.

No. 1P2. Received as *pyramidale recognitum*, a homonym.

113399 and 113400. *CYNARA SCOLYMUS* L. Asteraceae. Artichoke.

From New York. Seeds presented by Carmelo Caporaso, Brooklyn, N. Y., through W. R. Beattie, Bureau of Plant Industry. Received December 9, 1935.

Introduced for Department specialists.

113399. No. 1. *Globe* artichoke.

113400. No. 2. *Villarosa* artichoke, a variety which is said to come true from seed.

113401 to 113403. *VITIS VINIFERA* L. Vitaceae. European grape.

From Italy. Cuttings presented by Prof. G. Delmaso, R. Stazione Sperimentale di Viticolo-Enologica, Conegliano. Received December 16, 1935.

Introduced for Department specialists.

113401. *Aglianico*. 113403. *Grillo*.

113402. *Grignolino*.

113404 to 113415. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

From Canada. Scions presented by Dr. W. H. Upshall, Vineland Station, Ontario. Received December 16, 1935.

Scions from crosses between trees of McIntosh and Spy and from open-pollinated trees of Spy; introduced for Department specialists.

113404. 3-35-3.

113410. 3-31-7.

113405. 3-33-4.

113411. 9-3-28.

113406. 9-4-35.

113412. 9-3-10.

113407. 9-4-30.

113413. 9-3-34.

113408. 9-3-6.

113414. 3-35-15.

113409. 3-35-7.

113415. 3-31-11.

113416. *VERNONIA JAVANICA* (Blume) DC. Asteraceae.

From Cuba. Seeds presented by Robert M. Grey, Superintendent, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, through F. G. Walsingham. Received December 12, 1935.

Introduced for Department specialists.

Seeds presented to the Atkins Institution by the Botanic Gardens, Singapore, Straits Settlements. A tropical tree with elliptic, long-petioled leaves and numerous small purple flower-heads in terminal corymbs. Native to Java.

113417. *ASPARAGUS PSEUDOSCABER* Grecescu. Convallariaceae.

From Germany. Seeds purchased from Wilhelm Pfitzer, Stuttgart. Received December 10, 1935.

Introduced for Department specialists.

A hardy ornamental asparagus similar to *Asparagus plumosus nanus*. Native to Rumania.

113418 to 113435. *ORYZA SATIVA* L. Poaceae. Rice.

From Japan. Seeds presented by K. Nakata, Kyushu Imperial University, Department of Agriculture, Laboratory of Plant Pathology, Fukuoka. Received December 5, 1935.

Local strains from Chosen; introduced for Department specialists.

113418. No. 380. *Seikinso*.

113419. No. 383. *Ko-so*.

113420. No. 385. *Pori-be*.

113421. No. 389. *Tata-so*.

113422. No. 394. *Pappe*.

113423. No. 397. *Rozinto*.

113424. No. 402. *To-so*.

113425. No. 404. *Ryokuto-to*.

113426. No. 415. *Hakuso-to*.

113427. No. 417. *Shichisho-to*.

113428. No. 456. *Chakalbe*.

113429. No. 468. *So-tei-so*.

113430. No. 518. *Zai-rai Sekizanso*.

113431. No. 519. *Pilpe*.

113418 to 113435—Continued.

113432. No. 543. *Mochi-mak*.
 113433. No. 547. *Oh-natsume-so*.
 113434. No. 554. *Butamochi-to*.
 113435. No. 557. *Nishikimochi*.

113436 to 113440.

From New Zealand. Seeds presented by A. S. Paterson & Co., Ltd., Dunedin. Received December 5, 1935.

Introduced for Department specialists.

113436 to 113439. *LOLIUM PERENNE* L. Poaceae. Perennial ryegrass.

113436. No. HB-356B; certified Mother Ryegrass.

Nos. 113437 to 113439; certified Permanent Pasture Ryegrass.

113437. No. CO-5-S1.

113438. No. 2833.

113439. No. 2874.

113440. *TRIFOLIUM REPENS* L. Fabaceae. White clover.
 No. HB-690. Certified white clover.

113441 to 113448. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

From Colombia. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received December 18, 1935.

Collected in the Departamento de Antioquia; introduced for Department specialists.

113441. No. 31. *Medellin*. From Damasco, November 16, 1935.

113442. No. 32. *Tachuelo*. From Santa Barbara, November 17, 1935.

113443. No. 33. *Tachuelo* or *Caucano* (?) From Santa Barbara, November 18, 1935.

113444. No. 34. From Medellin, November 20, 1935.

113445. No. 36. *Zapatoca*. From Amagá, November 26, 1935.

113446. No. 37. *Zapatoca*. From Amagá, November 26, 1935.

113447. No. 38. *Boliviano*. From Amagá, November 26, 1935.

113448. No. 39. *Cordoncillo*. From Amagá, November 26, 1935.

113449 and 113450. *GOSSYPIUM* spp. Malvaceae. Cotton.

From Colombia. Seeds presented by the American consul, Buenaventura. Received December 16, 1935.

Wild cotton from Colombia; introduced for Department specialists.

113449. *GOSSYPIUM EVERTUM* O. F. Cook and J. W. Hubbard.

113450. *GOSSYPIUM TRIDENS* O. F. Cook and J. W. Hubbard.

113451 to 113462.

From the Union of Soviet Socialist Republics. Plants presented by the Institute of Plant Industry, Leningrad. Received December 18, 1935.

113451 to 113462—Continued.

Introduced for Department specialists.

113451 to 113458. *AMYGDALUS* spp. Amygdalaceae.

113451. *AMYGDALUS DAVIDIANA* (Carr.) Zabel. Chinese wild peach.

No. 02117.

113452 to 113456. *AMYGDALUS PERSICA* L. Peach.

113452. No. 453. *Rogani-gow*.

113453. No. 343. *Blindchatyi*, Flat peach.

113454. No. 1355. *Ferganensis* 59.

113455. No. 02446. *Ferganensis*, white-fleshed.

113456. No. 808. *Ferganensis*, yellow-fleshed.

113457 and 113458. *AMYGDALUS PERSICA NECTARINA* Ait. Nectarine.

113457. No. 595. A red nectarine.

113458. No. 597.

113459. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.
 No. 838.

113460. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.
 No. 595. *Badam*.

113461. \times *PRUNUS DASYCARPA* Ehrh. Amygdalaceae. Plum-apricot.

113462. *AMYGDALUS COMMUNIS* \times *PERSICA*. Amygdalaceae.

No. 895. An almond \times peach hybrid.

113463. *HYACINTHUS ORIENTALIS* L. Liliaceae. Common hyacinth.

From India. Bulbs purchased from Mrs. P. Kohli, Baramula. Received December 24, 1935.

Introduced for Department specialists.

For previous introduction see 14790.

113464 to 113466. *TULIPA* spp. Liliaceae. Tulip.

From India. Bulbs presented by Mrs. P. Kohli, Baramula. Received December 24, 1935.

Introduced for Department specialists.

113464. *TULIPA CHRYSANTHA* Boiss.

A dwarf tulip with strap-shaped leaves and a stem about 8 inches high, bearing a star-shaped flower, yellow within, flushed red without. Native to central Asia.

113465. *TULIPA LANATA* Regel.

For previous introduction see 107589.

113466. *TULIPA STELLATA* Hook.

This species from the temperate Himalayas is almost a counterpart of the common *Tulipa clusiana*, differing chiefly in the yellow basal star.

For previous introduction see 51113.

113467 to 113484. *MALUS* spp. Malaceae.

From Canada. Scions presented by N. B. Davis, Dominion Horticulturist, Central Experimental Farm, Ottawa. Received December 24, 1935.

113467 to 113484—Continued.

Introduced for Department specialists.

113467 to 113470. *MALUS BACCATA* (L.) Moench. Siberian crab apple.

113467. C. E. F.

113468. No. 28-53 (N. 7525).

113469. No. 28-54 (N. 7526).

113470. No. 10-11 (N. 2648).

113471. *MALUS* sp.

No. 10-7 (2749).

113472 to 113481. *MALUS SYLVESTRIS* Mill. Apple.

113472. No. 41-1. *Anis*.

113473. No. 44-4. *Antonovka*.

113474. No. 37-13. *Hibernal*.

113475. No. 0-22086. *Niobe*.

113476. No. 0-22089. *Roslin*.

113477. No. 3-26. *Rupert*.

113478. No. 3a-30. *Sandow*.

113479. No. 7-3. *Spilav*.

113480. No. 13-15. *Spiretta*.

113481. No. 0-22137. *Thurso*.

113482 to 113484. *MALUS* spp.

113482. No. 2-21. *Columbia*, a crab apple.

113483. No. 35-30. *McPrince*, a crab apple.

113484. No. 1-95. *Osman*, a crab apple.

113485 to 113494. *TRITICUM AESTIVUM* L. Poaceae. Common wheat.

From Australia. Seeds presented by H. Wenzholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received December 10, 1935.

Introduced for Department specialists.

113485. *Baldwin*, No. C. 6398.

113486. *Bencubbin*.

113487. *Bordan*.

113488. *Daphne*.

113489. *Gular*.

113490. *Minflor*, No. C. 5654.

113491. *Numba*.

113492. *Sultan*.

113493. *Sword*.

113494. *Totadgin*.

113495 to 113501. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

From Colombia. Seeds collected by Raymond Stadelman, Bureau of Plant Industry. Received December 26, 1935.

Introduced for Department specialists.

113495. No. 35. *Zapatoca*. From Amagá, Antioquia, November 25, 1935.

113496. No. 40. *Girón*. Received December 9, 1935, from Garrucha, Manizales.

113495 to 113501—Continued.

113497. No. 41. *Puntelanza*. Received December 9, 1935, from Farraliso, Manizales.

113498. No. 42. Piño. Received December 5, 1935, from Farraliso, Manizales.

113499. No. 43. *Zapatoca*. Received December 9, 1935, from Cabaña, Manizales.

113500. No. 44. *Punta da lanza*. Received December 9, 1935, from La Loma, Salamina, Caldas.

113501. No. 45. A mixed sample of *Repollo* and *Braso negro*. Received December 9, 1935, from Chamberí, Salamina, Caldas.

113502. *NICOTIANA TABACUM* L. Solanaceae. Common tobacco.

From Mexico. Seeds presented by A. S. Sharpton, District of Ciudad del Maiz, San Luis Potosi, at the request of W. A. Archer, Bureau of Plant Industry, through Edmund B. Montgomery, American consul, San Luis Potosi. Received December 28, 1935.

Introduced for Department specialists.

113503 to 113505.

From Ibarra Province, Ecuador. Seeds collected by Mrs. Ynes Mexia, Bureau of Plant Industry. Received November 22, 1935.

Introduced for Department specialists.

113503 and 113504. *JUBAEA CHILENSIS* (Molina) Baill. Phoenicaceae. Sirup palm.

A slow-growing, ornamental Chilean palm, 40 feet high, with a very robust trunk 4 or 5 feet in diameter, thriving in open places and enduring long periods of drought. The pinnate leaves are 6 to 12 feet long, and the seeds, like small coconuts, an inch in diameter with an edible kernel, have become important in recent years as an article of export.

For previous introduction see 110612.

113503. No. 7383.

113504. No. 7395.

113505. *PARAJUBAEA COCOIDES* Burret. Phoenicaceae. Palm.

No. 7385. A rather large handsome palm, first described in 1930, somewhat resembling *Jubaea*, but more slender and graceful, the trunk a foot or more in diameter at base, straight and erect, tapering slightly, the leaves closely and regularly pinnate, and the nuts, larger than those of *Jubaea*, have thicker, rougher shells, pointed at the end and contain oily edible kernels.

113506 and 113507.

From France. Seeds presented by A. Gerard, La Fosse par Montoire sur Loir, Loir-et-cher. Received December 24, 1935.

Introduced for Department specialists.

113506. *ABIES VENUSTA* (Douglas) K. Koch. Pinaceae. Fir.

113507. *DAVIDIA INVOLUCRATA* VILMORINIAN, (Dode) Hemsl. Cornaceae. Dovetree.

For previous introduction see 95372.

113508. ANNONA RETICULATA L. Annonaceae. Custard-apple.

From Siam. Seeds presented by Mrs. W. Harding Kneedler, Chieng Mai. Received December 17, 1935.

Introduced for Department specialists.

An excellent variety with a thin skin, which makes it a poor shipper.

For previous introduction see 102623.

113509. TRICHILIA HIRTA L. Meliaceae.

From Cuba. Seeds presented by Robert M. Grey, Superintendent, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, through F. G. Walsingham. Received December 23, 1935.

An evergreen tree up to 60 feet high, with pinnately compound leaves of 11 to 21 obliquely ovate, glabrous leaflets and panicles 9 inches long of small greenish-white flowers. It is native to Mexico and the West Indies.

For previous introduction see 104665.

113510 and 113511. MYRCIARIA CAULIFLORA (Mart.) Berg. Myrtaceae.

Jaboticaba.

From Brazil. Seeds purchased from Dierberger & Co., São Paulo. Received December 26, 1935.

Introduced for Department specialists.

113510. Variety *Paulista*.

113511. Variety *Sabará*.

113512. PROSOPIS CHILENSIS VELUTINA (Wooton) Standl. Mimosaceae.

Mesquite.

From Arizona. Seeds presented by C. J. King, United States Cooperative Testing Station, Sacaton. Received October 10, 1935.

Introduced for Department specialists.

A shrub or tree up to 18 feet high, usually distinguishable from the type by the small pubescent leaflets. Native to the southwestern United States and Mexico.

INDEX OF COMMON AND SCIENTIFIC NAMES

- Abelmoschus esculentus*, 112727.
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