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Plant Inventory No. 138

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D. C., January 1950



PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY,¹ JANUARY 1 TO MARCH 31, 1939 (Nos. 131244 to 132270)

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INTRODUCTORY STATEMENT

This inventory, No. 138, is a record of the plant material (Nos. 131244 to 132270) received by the Division of Plant Exploration and Introduction during the period from January 1 to March 31, 1939.

The manuscript was prepared under the supervision of Paul Russell, who has checked or identified the incoming seed materials and has verified the botanical nomenclature and descriptive notes.

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INVENTORY

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

131244 to 131247. CARICA PAPAYA L. Papayaceae. Papaya.

From the Philippine Islands. Seeds presented by L. W. Bryan, Board of Agriculture and Forestry, Hilo, Hawaii. Received January 5, 1939.

131244. A variety with medium-sized fruits.

131245. *Solo*.

131246. *Watermelon*.

131247. A variety with large fruit.

131248. SWINGLEA GLUTINOSA (Blanco) Merrill (*Chaetospermum glutinosum* (Blanco) Swingle). Rutaceae.

From the Canal Zone. Seeds presented by the Superintendent, Canal Zone Experimental Gardens, Summit. Received January 9, 1939.

A small spiny tree, native to the Philippine Islands, with trifoliolate leaves, small clusters of rather large white flowers, and oblong, hard-shelled fruits. It is used as a stock for commercial citrus varieties.

For previous introduction see 109788.

131249. BRASSICA HIRTA Moench. Brassicaceae. White mustard.

From the Netherlands. Seeds presented by N. V. Sluis en Groot's Kon, Zaadteelt en Zaadhandel, Enkhuisen. Received January 12, 1939.

131250 to 131279. 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 January 4, 1939.

131250. *DC* × *Dundee* × *Dundee*, No. 52.

131251. *DC* × *Dundee* × *Dundee*, No. 49.

131252. *Dundee* × *Bunyip*, No. 181.

131253. *Dundee* × *Bunyip*, *M 336*. No. 182.

131254. *Dundee* × *Ford*, No. 3.

131255. *Dundee* × *Ford*, No. 702.

131256. *Dundee* × *Ford*, No. 4.

131257. *Dundee* × *RL 5954* × *Ford* × *Dundee*, No. 224.

131258. *Dundee* × *RL 595*, No. 553.

131259. *Dundee* × *Federation* × *Nabawa* × *Federation*, No. 15.

131260. *Dundee* × *Federation* × *Nabawa* × *Federation*, No. 17.

131261. *Dundee* × *Federation* × *Nabawa* × *Federation*, No. 22.

131262. *Dundee* × *Morocco 422*, *C 11415*, Early No. C 36.

131263. *Federation* × *Gulgalos*, *C 5699*, No. 183.

131264. *Federation* × *Hope*, *C 9541*, No. 226.

131265. *Federation* × *Nabawa* × *Federation*, *M 371*, No. 189.

131266. *Federation* × *Khapli*, *C 4919*, No. 188.

131267. *Federation* × *Nabawa*, No. 231.

131268. *Federation* × *Nabawa*, *C 10909*, No. 187.

131269. *Hard Federation* × *Nabawa*, *C 10910*, No. 223.

131270. *Hard Federation* × *Nabawa*, *C 10911*, No. 224.

131271. *Hard Federation* × *Nabawa*, *C 10912*, No. 225.

131272. *Hard Federation* × *Nabawa*, *C 10445*, No. 222.

131250 to 131279.—Continued.

131273. *Hard Federation* × *Nabawa*, C 10444, No. 221.131274. *Hard Federation* × *Nabawa*, C 10917.131275. *Hussar* × *Hard Federation*, C 6292, No. 340.131276. *Nabawa* × *Dundee*, C 10535, No. 361.131277. *Nabawa* × *Dundee*, C 10541, No. 364.131278. *Waratah* × *Dundee*, C 10454, No. 349.131279. *Waratah* × *Dundee*, C 10455, No. 69.

131280 to 131287.

From England. Plants purchased from the Blackmoor estate, Blackmoor, Liss, Hants. Received January 5, 1939.

131280. *CYDONIA OBLONGA* Mill. Malaceae. Quince.131281 to 131283. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.131281. *Malling I*.131282. *Malling type XVI*.131283. *Dr. Clifford*.131284 and 131285. *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.131284. *Warwickshire Drooper*.131285. *Common Mussel*.131286. *PRUNUS CERASIFERA* Ehrh. Myrobalan plum.
Myrobalan B.131287. *PRUNUS DOMESTICA* L. Common plum.
Pershore.131288 and 131289. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.

From Germany. Plants purchased from J. Schmitz, München. Received January 6, 1939.

131288. *Frühaprikose*.131289. *Luizet*.131290. *PSIDIUM* sp. Myrtaceae. Guava.

From Mexico. Seeds presented by Dr. C. A. Purpus, Zacuapam, Huatusco, Veracruz. Received January 3, 1939.

131291 to 131294. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

From Europe. Scions presented by Ivo Volarić, Samobor, Croatia, Yugoslavia. Received January 9, 1939.

131291. *Budimka*.131292. *Kolacharka*.131293. *Prespanka*.131294. *Tetovka*.131295 to 131321. *RHODODENDRON*. Ericaceae.

From Japan. Plants purchased from the Chugai Nursery Co., Yamamoto, Kawabegun, near Kobe. Received January 10, 1939.

Reported to be hybrids of *R. simsii* and *R. indicum*.131295. *Kikabu*. 131309. *Seigetsu*.131296. *Kingetsu*. 131310. *Shi-how*.131297. *Kongo*. 131311. *Sei-un*.

131295 to 131321.—Continued.

131298. <i>Kow-how.</i>	131312. <i>Shinnyo-no-tsuki.</i>
131299. <i>Kow-koku.</i>	131313. <i>Shin-sei.</i>
131300. <i>Kwahow.</i>	131314. <i>Shumpow.</i>
131301. <i>Mai-hime.</i>	131315. <i>Shun-rei.</i>
131302. <i>Musashino.</i>	131316. <i>Sohow.</i>
131303. <i>Myogi.</i>	131317. <i>Shikun-ow.</i>
131304. <i>Otome.</i>	131318. <i>Takara-bune.</i>
131305. <i>Reihow.</i>	131319. <i>Tama-giku.</i>
131306. <i>Rimpu.</i>	131320. <i>Tama-sugata.</i>
131307. <i>Row-getsu.</i>	131321. <i>Ten-meikai.</i>
131308. <i>Sakura-yama.</i>	

131322 to 131326.

From Germany. Seeds purchased from J. Schmitz, München. Received January 6, 1939.

131322. <i>BETULA PENDULA</i> Roth. Betulaceae.	Birch.
For previous introduction see 116193.	
131323 and 131324. <i>MALUS SYLVESTRIS</i> Mill. Malaceae.	Apple.
131323. From cultivated apples.	
131324. From wild apples.	
131325 and 131326. <i>PYRUS COMMUNIS</i> L. Malaceae.	Common pear.
131325. From cultivated pears.	
131326. From wild pears.	

131327. *HIPPEASTRUM RUTILUM* var. *CROCATUM* (Ker) Baker. Amaryllidaceae.

From California. Bulbs presented by Howard & Smith, Montebello. Received June 17, 1938. Numbered in January 1939.

A variety differing from the type in having bright-orange flowers, more undulate segments, larger leaves, and a taller stem.

For previous introduction see 118818.

131328 and 131329. *BRASSICA* spp. Brassicaceae.

From Hungary. Seeds presented by Edmund Mauthner, Budapest. Received January 7, 1939.

131328. <i>BRASSICA HIRTA</i> Moench.	White mustard.
131329. <i>BRASSICA NIGRA</i> (L.) Koch.	Black mustard.

131330 and 131331. *CITRUS AURANTIFOLIA* (Christm.) Swingle. Rutaceae. Lime.

From Cuba. Budsticks presented by Thomas R. Towns, Holguin. Received January 17, 1939.

131330. Originally from Brazil.
131331. A West Indian lime.

131332 to 131351.

From France. Plants purchased from Pallez-Remy, Metz (Moselle). Received January 17, 1939.

131332 to 131337. <i>AMYGDALUS PERSICA</i> L. Amygdalaceae.	Peach.
131332. <i>Baron Dufour.</i>	

131332 to 131351.—Continued.

131333. *Belle Imperiale*.

131334. *Gaillard Girerd IV*.

131335. *Madame Rognat*.

131336. *Madeleine Hariot*.

131337. *Mignonne Hative*.

131338 to 131342. MALUS SYLVESTRIS Mill. Malaceae. Apple.

131338. *Belle Dubois*.

131339. *Framboise d'Oberland*.

131340. *Fréquin de Chartres*.

131341. *Reinette d'Angleterre*.

131342. *Reinette des Vergers*.

131343 and 131344. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

131343. *De Saluces*.

131344. *Gros Precoce*.

131345 to 134347. PRUNUS DOMESTICA L. Common plum.

131345. *Cochet Père*.

131346. *Grosse Marange*.

131347. *Quetsche Blanche de Letricourt*.

131348 to 131351. PYRUS COMMUNIS L. Malaceae. Common pear.

131348. *Bergamotte Hertriche*.

131349. *D'Angers*.

131350. *Roi Sobiesky*.

131351. *Soquette*.

131352. CAPSICUM FRUTESCENS L. Solanaceae. Common redpepper.

From Hungary. Seeds purchased from Monori Magkereskedesenek, Budapest. Received January 16, 1939.

Jubilee of Honor.

131353. JUGLANS REGIA L. Juglandaceae. Persian walnut.

From Estonia. Seeds purchased from William von Breman, Keila-Joa. Received January 17, 1939.

131354 to 131401. TRITICUM AESTIVUM L. Poaceae. Common wheat.

From Australia. Seeds presented by W. Wenzholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received January 20, 1939.

131354. *Dundee* × (*H 44-24* × *Marquis*) × *Dundee* (red).

131355. *Dundee* × (*H 44-24* × *Marquis*) × *Dundee* (white grain).

131356. *Dundee* × *Gular*.

131357. *Dundee* × *Gular*.

131358. *Dundee* × *Gular*.

131359. *Dundee* × *Gular*.

131360. *Dundee* × *Gular*.

131361. *Dundee* × *Gular*.

131362. *Dundee* × *Gular*.

131354 to 131401.—Continued.

131363. *Dundee* × *R.L.*
 131364. *Dundee* × *R.L.*
 131365. *Dundee* × *R.L.* 595.
 131366. *Dundee* × *R.L.* 595.
 131367. *Dundee* × *R.L.* 595.
 131368. *Dundee* × *R.L.* 595.
 131369. *Dundee* × *Ford.*
 131370. *Dundee* × *Ford.*
 131371. *Dundee* × *Ford.*
 131372. *Dundee* × *Ford.*
 131373. *Ford* × *Dundee.*
 131374. *Ford* × *Dundee.*
 131375. *Ford* × *Dundee.*
 131376. *Ford* × *Dundee.*
 131377. *Gular* × *Pusa* × *Dundee.*
 131378. *Hard Federation* × *Nabawa*, C 10441.
 131379. *Hard Federation* × *Nabawa*, C 10442.
 131380. *Hard Federation* × *Nabawa*, C 10444.
 131381. *Hard Federation* × *Nabawa*, C 10445.
 131382. *Hard Federation* × *Nabawa*, C 10910.
 131383. *Nabawa* × *Dundee* (*Mitchell*), C 10533.
 131384. *Nabawa* × *Dundee*, C 10534.
 131385. *Nabawa* × *Dundee*, C 10535.
 131386. *Nabawa* × *Dundee*, C 10536.
 131387. *Nabawa* × *Dundee*, C 10537.
 131388. *Nabawa* × *Dundee*, C 10538.
 131389. *Nabawa* × *Dundee*, C 10540.
 131390. *Tenmarq* × *Dundee*, W 0-7-2-0.
 131391. *Tenmarq* × *Dundee*, W 0-7-4-0.
 131392. *Tenmarq* × *Dundee*, W 0-19-2-0.
 131393. *Tenmarq* × *Dundee*, W 0-19-4-0.
 131394. *Tenmarq* × *Dundee*, W 0-19-5-0.
 131395. *Tenmarq* × *Dundee*, W 0-19-6-0.
 131396. *Tenmarq* × *Dundee*, W 0-19-7-0.
 131397. *Tenmarq* × *Dundee*, W 0-19-8-0.
 131398. *Tenmarq* × *Dundee*, W 0-19-9-0.
 131399. *Tenmarq* × *Dundee*, W 0-9-10-0.
 131400. *Tenmarq* × *Dundee*, W 0-27-4-0.
 131401. *Tenmarq* × *Dundee*, W 0-27-5-0.

131402. *DACTYLIS ASCHERSONIANA* Graebn. Poaceae. Grass.

From Sweden. Seeds presented by Dr. A. Muntzing, University of Lund, Svalöf. Received January 12, 1939.

131403. PRUNUS SIBIRICA L. Amygdalaceae. Siberian apricot.

From Manchuria. Seeds presented by A. R. Munday, Oakville, Manitoba, Canada. Received January 16, 1939.

For previous introduction see 114670.

131404. CHOSENIA BRACTEOSA (Trautv. and Mey.) Nakai. (*C. splendida* Nakai). Salicaceae.

From Japan. Cuttings presented by Dr. T. Kaburaki, Director, Forest Experiment Station, Keijo, Chosen. Received January 20, 1939.

A handsome upright tree, closely related to the willows, up to 100 feet high. When young the bark is whitish, becoming brownish-gray with age. Native to northeastern Asia.

131405. DAVIDIA INVOLUCRATA var. VILMORINIANA (Dode) Hemsl. Cornaceae.

From France. Seeds presented by A. Gerard, La Fosse, par Montoire sur Loir, Loir-et-Cher. Received January 19, 1939.

A pyramidal tree, native to China; with cordate, yellow-green leaves and small flower heads each with 2 unequal creamy-white bracts, the longer one pendulous and 6 inches long.

For previous introduction see 113507.

131406 to 131422.

From the Union of Soviet Socialist Republics. Seeds presented by S. N. Shundenko, Chief, Bureau of Plant Introduction, Lenin Academy of Agricultural Sciences, Leningrad. Received January 19, 1939.

131406 and 131407. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

Var. *Ferganensis*. From Turkistan.

131406. *Belomiasy Ranny*.

131407. *Zheltomiasy Ranny*.

131408 and 131409. AMYGDALUS PERSICA PLATYCARPA (Decaisne) Ricker.

From Turkistan.

131408. *Bliudchaty Posdony*.

131409. *Bliudchaty Ranny*.

131410. MALUS BACCATA var. MANDSHURICA (Maxim.) C. Schneid. Malaceae. Crab apple.

A tree 12 to 15 feet high, with pure-white flowers which are produced in great profusion, are over 1 inch across, and very fragrant. The fruit is round, yellow or red, and not larger than a large pea. It is native to northeastern Asia.

For previous introduction see 68988.

131411 to 131422. PRUNUS spp. Amygdalaceae.

131411 to 131422. PRUNUS spp. Amygdalaceae.

131411. *Krasnotchoky*. From Krim, Nikitsky Sad.

131412. *Davidiana No. 1778*. From central Asia.

131413 to 131418. PRUNUS CERASIFERA Ehrh.

Myrobalan plum.

131413. *Kok Sultan*, No. 523. From central Asia.

131414. *Kok Sultan*, No. 1281. From central Asia.

131415. From Pskhu, near Sukhum, Caucasus.

131416. From Kabarda, North Caucasus.

131417. From North Caucasus.

131418. From Gokcha (Seran), Caucasus.

131406 to 131422.—Continued.

131419 to 131421. × PRUNUS DASycARPA Ehrh. Plum-apricot.

From central Asia.

For previous introduction see 128566.

131419. *Flor-Tsiran*. A mixed sample.

131420. *Urinko Sliva*.

131421. *Sarolju*.

131422. PRUNUS MAHALEB L. Mahaleb cherry.

Worsob.

131423. FURCRAEA PUBESCENS Tod. Amaryllidaceae.

From Cuba. Bulbils presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received January 23, 1939.

A nearly trunkless plant, believed to be native to Mexico. with spreading leaves up to 5 feet long by 3 inches wide and marginal teeth 1/3 inch long. The flowers are greenish-white, 2 1/4 inches across, and are borne on a scape 15 to 20 feet high. Like the agaves, which they resemble in appearance, the furcraeas often do not flower for several years.

131424. PELAGODOXA HENRYANA Beccari. Phoenicaceae. Palm.

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered January 24, 1939.

P.I.G. 9574. An unarmed palm with a trunk 18 to 24 feet high and 5 to 7 inches in diameter, which grows on stilt roots like a pandanus; the oblong leaves have blades 6 to 9 feet long and petioles about 3 feet long. The large spherical fruits are in racemes of 12 to 16. The palm requires shade and is of very striking appearance. Native to the Marquesas Islands.

For previous introduction see 127319.

131425 to 131427.

From Germany. Seeds purchased from Wilhelm Pfitzer, Stuttgart. Received January 21, 1939.

131425. LACTUCA SATIVA L. Cichoriaceae. Garden lettuce.

Perle von Schwaben, a heading type.

131426. PHASEOLUS VULGARIS L. Fabaceae. Common bean.

Granda ohne Fäden, a bush variety, No. 2756.

131427. RHEUM RHAPONTICUM L. Polygonaceae. Common rhubarb.

Schwabisches Vollblut.

131428. TUTCHERIA SPECTABILIS (Champ.) Dunn. Theaceae.

From China. Seeds presented through F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received January 23, 1939.

Received from the Botanic Gardens, Hong Kong. A handsome evergreen shrub or small tree native to Hong Kong. The shining ovate lanceolate, leathery leaves are 5 to 6 inches long, and the white cup-shaped flowers are about 2 1/2 inches across.

For previous introduction see 46982.

131429. BRASSICA HIRTA Moench. Brassicaceae. White mustard.

From England. Seeds purchased from Gartons, Ltd., Warrington. Received January 24, 1939.

131430 to 131461.

From England. Plants purchased from George Bunyard & Co., Ltd., Maidstone, Kent. Received January 27, 1939.

131430 to 131461.—Continued.

- 131430 and 131431. *AMYGDALUS PERSICA* var. *NECTARINA* Ait. Amygdalaceae. Nectarine.
131430. *Darwin*.
131431. *Milton*.
- 131432 to 131441. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.
131432. *Adams' Pearmain*.
131433. *Ashmead's Kernel*.
131434. *Beauty of Stoke*.
131435. *Clark's Seedling*.
131436. *Cornish Gilliflower*.
131437. *Grange's Pearmain*.
131438. *Norman's Pippin*.
131439. *Pitmaston Pine*.
131440. *Wanstall Pippin*.
131441. *Yellow Ingestrie*.
- 131442 to 131456. *PRUNUS* spp. Amygdalaceae.
- 131442 to 131445. *PRUNUS ARMENIACA* L. Apricot.
131442. *Frogmore Early*.
131443. *Large Early*.
131444. *New Large Early*.
131445. *Veitch's Red*.
131446. *PRUNUS AVIUM* L. Sweet cherry.
- Black Eagle*.
131447. *PRUNUS CERASUS* L. Sour cherry.
- Coe's Carnation*.
131448. *PRUNUS AVIUM* L. Sweet cherry.
- Early Amber*.
131449. *PRUNUS CERASUS* L. Sour cherry.
- Flemish Red*.
- 131450 and 131451. *PRUNUS AVIUM* L. Sweet cherry.
131450. *Frogmore Bigarreau*.
131451. *Kentish Bigarreau*.
131452. *PRUNUS CERASUS* L. Sour cherry.
- Kentish Red*.
- 131453 to 131456. *PRUNUS*.
131453. *Knight's Early Black*.
131454. *Nouvelle Royale*.
131455. *Ronalds' Late Duke*.
131456. *Waterloo*.
- 131457 to 131461. *PYRUS COMMUNIS* L. Malaceae. Common pear.
131457. *Belle Julie*.
131458. *Directeur Hardy*.
131459. *Duchesse de Bordeaux*.
131460. *Emile d'Heyst*.
131461. *President Barabé*.

131462 to 131467.

From England. Plants purchased from Laxton Bros., Ltd., Bedford. Received January 28, 1939.

131462. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.

James Walker.

131463. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

Laxton's Herald.

131464 and 131465. *PRUNUS DOMESTICA* L. Amygdalaceae. Common plum.

131464. *Laxton's Ideal.*

131465. *Laxton's Olympia.*

131466. *RUBUS*. Rosaceae.

John Innes. A blackberry said to be a hybrid between *Rubus ulmifolius* and *R. thyrsiger*.

131467. *RUBUS* sp.

Pyne's Royal Red raspberry.

131468. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

From Yugoslavia. Scions presented by Ivo Volaric, Samobor, Croatia. Received January 30, 1939.

Red Prespanka.

A red-blushed sport of *Prespanka* (P.I. 131293).

131469. *BAMBUSA POLYMORPHA* Munro. Poaceae. Bamboo.

From Rangoon, India. Seeds presented by the Bureau of Entomology and Plant Quarantine. Received February 2, 1939.

A tropical bamboo found in Bengal and Burma. The plants grow in tufts or clumps, often reaching a height of 60 or 70 feet. The leaves are small, 3 to 7 inches long, and from 1/4 to 1/2 inch wide. It sometimes flowers after 60 years.

For previous introduction see 61373.

131470. *BETA VULGARIS* L. Chenopodiaceae. Common beet.

From Italy. Seeds presented by R. Stazione Sperimentale di Bieticoltura, Rovigo. Received February 4, 1939.

Sugar-beet seed.

131471 to 131492.

From France. Plants purchased from Pinguet-Guindon & Fils, St. Symphorien. Received February 9, 1939.

131471 to 131474. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.

131471. *Brugnon Jaune de Padoue.*

131472. *Doctor Aribaud.*

131473. *Grosse Madeleine.*

131474. *Peatmaston Orange.*

131475 to 131480. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

131475. *À Cidre Antoinette.*

131476. *Belle Flavoise.*

131477. *Calville Rouge du Mt-d'Or.*

131478. *Francatu.*

131471 to 131492.—Continued.

131479. *Lambron.*

131480. *Roi Durand.*

131481 to 131483. PRUNUS spp. Amygdalaceae.

131481. PRUNUS ARMENIACA L.

Apricot.

Alberge de Tours.

131482. PRUNUS AVIUM L.

Sweet cherry.

Bigarreau Pelissier.

131483. PRUNUS CERASUS L.

Sour cherry.

Triaux de Fondettes.

131484 to 131492. PYRUS COMMUNIS L. Malaceae.

Common pear.

131484. *Beurre Papa Lafosse.*

131485. *Beurre Sichel.*

131486. *Doyenne George Boucher.*

131487. *Doyenne Mme. Cornuau.*

131488. *La Belgique.*

131489. *Mme. Henry Lamy.*

131490. *Mme. Nivet.*

131491. *Ouat.*

131492. *Vice President Aubert.*

131493. MASCARENHASIA ELASTICA Schum. Apocynaceae.

From Africa. Seeds presented by F. M. Rogers, Superintendent of Plantations, East African Agricultural Research Station, Amani, Tanga, Tanganyika Territory. Received February 6, 1939.

A tree, native to tropical Africa. It is a source of rubber, and the timber also is said to be excellent.

For previous introduction see 77698.

131494. QUERCUS sp. Fagaceae.

Oak.

From France. Trees purchased from Leopold Laval, Loupchat, Par Martel. Received February 10, 1939.

Truffle oak.

131495. QUERCUS sp.

Oak.

From France. Trees purchased from N. Maurizot, Saint-Didier (Vaucluse). Received February 10, 1939.

Truffle oak.

131496 to 131500. GOSSYPIUM. Malvaceae.

Cotton.

From Bulgaria. Seeds presented by the Experiment Station, Sadovo. Received February 8, 1939.

131496. *Populacion I.*

131497. *No. 36 ch.*

131498. *No. 182.*

131499. *No. 385.*

131500. *No. 750 ch.*

131501 to 131511. MALUS SYLVESTRIS Mill. Malaceae. Apple.

From Poland. Scions purchased from Dr. W. I. Filewicz, Sinoleka Experiment Station, Post Sosnowe, near Siedloe. Received February 13, 1939.

131501 to 131511.—Continued.

131501. *Belle Fille*.
 131502. *Bergamotte Reinette*.
 131503. *Bohnapfel*.
 131504. *Boskopskie*.
 131505. *Coulon Reinette*.
 131506. *Landsberska*.
 131507. *Lithuanian Pippin*.
 131508. *Malinowa Oberlandska*.
 131509. *Szafran Pippin*.
 131510. *Roter Eiserapfel (Zelenzniak)*.
 131511. *Zuccalmaglio Reinette*.

131512. *BRASSICA NIGRA* (L.) Koch. Brassicaceae. **Black mustard**.
 From the Netherlands. Seeds purchased from N. V. Sluis Brothers, Ltd.,
 Enkhuizen. Received February 10, 1939.

Dutch black or brown mustard.

131513 to 131530.

From France. Plants purchased from L. Levavasseur, Angers. Received
 February 16, 1939.

- 131513 to 131517. *AMYGDALUS PERSICA* L. Amygdalaceae. **Peach**.
 131513. *Belle de Douè*.
 131514. *Belle Henri Pinaut*.
 131515. *Besi Robin*.
 131516. *Chevreuse Hâtive*.
 131517. *Chevreuse Tardive*.
 131518. *AMYGDALUS PERSICA* var. *NECTARINA* Ait. **Nectarine**.
Cuzin.
 131519 to 131521. *AMYGDALUS PERSICA* L. **Peach**.
 131519. *Marquise de Brissac*.
 131520. *Sanguine de Palluan*.
 131521. *Théophile Sueur*.
 131522 to 131525. *MALUS SYLVESTRIS* Mill. Malaceae. **Apple**.
 131522. *Benedictine*.
 131523. *De La Bouairia*.
 131524. *Gros Doux Sucre*.
 131525. *Reinette du Portugal*.
 131526 to 131530. *PYRUS COMMUNIS* L. Malaceae. **Common pear**.
 131526. *Beurré Auguste*.
 131527. *Doyenné Georges Boucher*.
 131528. *Graslin*.
 131529. *Royal Vendée*.
 131530. *Vauquelin*.

131531. *GLYCINE MAX* (L.) Merrill. Fabaceae. **Soybean**.
 From Poland. Seeds presented by Prof. Jan. Muszinsky, University of Wilno,
 through Sven A. Holmberg, Algot Holmberg & Söner A.B., Norrköping,
 Sweden. Received February 14, 1939.

Var. *Batorowka*.

131532 to 131546.

From Manchuria. Seeds presented by B. V. Skvortzov, Harbin. Received February 8, 1939.

A collection of grasses, native to northern Asia.

131532. *AGROPYRON INTERMEDIUM* (Host) Beauv. Poaceae.

A perennial grass native to the Amur district of eastern Asia.

131533. *AGROSTIS TRINII* Turcz. Poaceae.

A perennial grass native to eastern Asia.

131534. *BECKMANNIA SYZIGACHNE* (Steud.) Fern. Poaceae.

For previous introduction see 111520.

131535. *BROMUS INERMIS* Leyss. Poaceae. Common bromegrass.

131536. *CALAMAGROSTIS ANGUSTIFOLIA* Komer. Poaceae.

A perennial grass native to northeastern Asia.

131537. *CALAMAGROSTIS LANGSDORFFII* (Link.) Trin.

A native grass, said to make good hay.

For previous introduction see 68408.

131538. *FESTUCA RUBRA* L. Poaceae. Red fescue.

For previous introduction see 115359.

131539. *HORDEUM BREVISUBULATUM* (Trin.) Link.

For previous introduction see 109821.

131540. *KOELERIA GRACILIS* Pers. Poaceae.

For previous introduction see 113191.

131541 to 131545. *POA* spp. Poaceae. Bluegrass.

131541 and 131542. *POA PRATENSIS* L. Kentucky bluegrass.

131541. From the steppe district of northern Manchuria.

131542. From the mountain district of northern Manchuria.

131543. *POA SUBFASTIGIATA* Trin.

A creeping perennial grass with stems over 1 foot high. Native to Siberia and Mongolia.

For previous introduction see 113224.

131544. *POA* sp.

131545. *POA* sp.

131546. *PUCCINELLIA TENUIFLORA* (Griseb.) Scribn. and Merr. Poaceae.

An erect perennial grass, native to northern Asia and Alaska.

131547. *CAPSICUM FRUTESCENS* L. Solanaceae. Common redpepper.

From Hungary. Seeds presented by Edmund Mauthner, Ltd., Budapest. Received February 14, 1939.

Szegedi Rozsa (*Szegeder Rosa*).

131548 to 131568.

From Belgium. Trees purchased from Louis Lens, Wavre-Notre-Dame (Lez Malines). Received February 18, 1939.

131548 to 131551. *AMYGDALUS* spp. Amygdalaceae.

131548 to 131550. *AMYGDALUS PERSICA* L.

131548. *Double Montagne*.

131548 to 131568.—Continued.

131549. *Favorite.*131550. *Matthew's Beauty.*131551. *AMYGDALUS PERSICA* var. *NECTARINA* Ait.

Nectarine.

*Fernand Demeyer.*131552 to 131561. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

131552. *Bellefleur de Brabant.*131553. *Bellefleur Grandes Mouches.*131554. *Bellefleur de France (Berglander).*131555. *Marie Joseph d'Othée.*131556. *Pomme Henri.*131557. *Posson de France.*131558. *Posson Rouge de Holland.*131559. *Reinette d'Orleans.*131560. *Reinette de France.*131561. *Reinette Jaegers.*131562 to 131564. *PRUNUS* spp. Amygdalaceae.131562. *PRUNUS AVIUM* L.

Sweet cherry.

*Bigarreau Rose.*131563. *PRUNUS CERASUS* L.

Sour cherry.

*Abbesse de Moulan.*131564. *PRUNUS.**Reine Claude Conducta, plum.*131565 to 131568. *PYRUS COMMUNIS* L. Malaceae.

Common pear.

131565. *Calebasse à la Reine.*131566. *Saint-Rémy.*131567. *Souvenir de la Reine des Belges.*131568. *Tardive de Ninove.*131569 to 131571. *PRUNUS SUBHIRTELLA* Miquel. Amygdalaceae.
Higan cherry.

From Canada. Plants presented by W. H. Warren, Superintendent of Parks, Victoria, British Columbia. Received February 20, 1939.

131569. Var. *Ascendens Rosea.*131570. Var. *Pendula Rubra Flore-plena.*131571. Var. *Pendula Sendaica.*131572. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

From Yugoslavia. Scions purchased from Ivo Volaric, Samobor, Croatia. Received February 25, 1939.

*Bojkova (Boiken).*131573. *PYRUS* sp. Malaceae.

Pear.

From China. Scions purchased from Rev. B. C. Patterson, N. C. Theological Seminary, Tenghsien, Shantung. Received February 20, 1939.

A green-skinned pear with sweet crisp flesh. It ripens early in September and will keep for nearly 2 months.

131574 to 131586.

From Manchuria. Seeds collected and presented by B. V. Skvortzov, Harbin. Received February 15, 1939.

131574 to 131586.—Continued.

131574. *AGROPYRON* sp. Poaceae. Grass.
131575. *CALAMAGROSTIS EPIGEIOS* (L.) Roth. Poaceae. Grass.
131576. *CALAMAGROSTIS NEPALENSIS* Nees. Grass.
A perennial grass, native to the Himalayan region.
For previous introduction see 114227.
131577. *DIARRHENA JAPONICA* Franch. and Sav. Poaceae. Grass.
A perennial grass, native to Japan.
131578. *ELYMUS SIBIRICUS* L. Poaceae. Grass.
For previous introduction see 108495.
131579. *GLYCERIA REMOTA* var. *JAPONICA* Hack. Poaceae. Grass.
For previous introduction see 101141.
131580. *MANISURIS COMPRESSA* (L.f.) Kuntze. Poaceae. Grass.
A coarse leafy grass, 5 feet tall, which thrives in swamp lands and on the margins of rivers.
For previous introduction see 41745.
131581. *PHALARIS ARUNDINACEA* L. Poaceae. Reed canary grass.
For previous introduction see 111700.
- 131582 to 131586. *POA* spp. Poaceae. Bluegrass.
131582. *POA SPHONDYLODES* Trin.
Found on dry grassy mountain slopes.
For previous introduction see 113223.
131583. *POA* sp. 131585. *POA* sp.
131584. *POA* sp. 131586. *POA* sp.
- 131587 and 131588. *TRIFOLIUM SUBTERRANEUM* L. Fabaceae.
Subterranean clover.
From Australia. Seeds presented by the Department of Agriculture, Victoria.
Received February 20, 1939.
131587. *Bass.*
131588. *MacArthur.*
- 131589 to 131592.
- From the Union of Soviet Socialist Republics. Seeds purchased from the Director, Hortus Botanicus Kujbyshevensis. Received February 20, 1939.
- 131589 to 131591. *MELILOTUS* spp. Fabaceae. Sweetclover.
131589. *MELILOTUS ALBA* Desr. White sweetclover.
131590. *MELILOTUS OFFICINALIS* (L.) Lam.
131591. *MELILOTUS* sp.
131592. *TRIGONELLA CAERULEA* (L.) Seringe. Fabaceae.
For previous introduction see 131176.
- 131593 to 131596.
- From France. Seeds purchased from Vilmorin-Andrieux & Cie. Received February 20, 1939.
131593. *BRASSICA HIRTA* Moench. Brassicaceae. White mustard.
131594. *BRASSICA NIGRA* (L.) Koch. Black mustard.
- 131595 and 131596. *CAPSICUM FRUTESCENS* L. Solanaceae. Common redpepper.

131593 to 131596.—Continued.

131595. Long red pepper.

131596. *Chili red* or *Cayenne*. A long narrow pepper.

131597 to 131605.

From England. Trees and scions purchased from W. Hopwood & Sons, Cheltenham. Received February 25, 1939.

131597. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.
Dymond.131598 to 131603. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.
Received as scions.131598. *Foxwhelp*.131599. *Kingston Black*.131600. *Knotted Kernel*.131601. *Reinette Obry*.131602. *Strawberry Norman*.131603. *Sweet Alford*.131604. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.
Large Early Montgamet.131605. *PRUNUS DOMESTICA* L. Common plum.
Kirke's.

131606 to 131611.

From Brazil. Offshoots collected by J. L. Collins, with the Collins-Baker Expedition. Received February 27, 1939.

131606 to 131609. *ANANAS* spp. Bromeliaceae.131606 and 131607. *ANANAS COMOSUS* (L.) Merr. Pineapple.

131606. C.B. Acc. No. 32. From Coxipo.

131607. C.B. Acc. No. 36. From Dourados.

131608. *ANANAS* sp.*Amazonian*. C.B. Acc. No. 62. From Campinas.131609. *ANANAS ANANASSOIDES* (Baker) L. B. Smith.

C.B. Acc. No. 31. From Livramento. A Brazilian plant very much like the pineapple, with rigid linear leaves over 2 feet long and less than 1 inch broad above the dilated base. The flower head is borne on a stem 1 to 2 feet high, but the individual flowers are surrounded by separate bracts instead of being united as in the pineapple.

For previous introduction see 130939.

131610 and 131611. *PSEUDANANAS MACRODONTES* (E. Morr.) Harms. Bromeliaceae.

A semiwild form which bears throughout the year. The fruits are used for making wine and vinegar. Native to Brazil.

131610. C.B. Acc. No. 26. From Lagoa Tecca.

131611. C.B. Acc. No. 28. From Sao Domingos.

131612 to 131642. *AVENA* spp. Poaceae. Oats.

From Poland. Seeds presented by the Director, Institute of Plant Breeding, Krakow. Received February 27, 1939.

131612. *AVENA BYZANTINA* Koch.*Rubida* No. 3223.131613 to 131639. *AVENA SATIVA* L.

131612 to 131642.—Continued.

131613. *Aldershafer Bialy Orzel-Szwecja.*131614. *Antoninski Bialy.*131615. *Antoninski Zolty.*131616. *Bialy Mazur.*131617. *Bialy Orzel Svalöf.*131618. *Detenicky Schlanstedsky-Czechy.*131619. *Dregeruvzluty.*131620. *Düppawski.*131621. *Goldkorn.*131622. *Grcywacz wotynski.*131623. *Hirschbacher.*131624. *Lembkes Baldur.*131625. *Lischower Frühhafer.*131626. *Nolzowsky Selekeni.*131627. *Rothenburger Schwarzhafer.*131628. *Siegshafer Zwyciezca.*131629. *Sobieszynski.*131630. *Solacki.*131631. *Strackenthiner W. H.*131632. *Strubes Schlandstedter.*131633. *Tatranski.*131634. *Teodozja.*131635. *Zloty Deszcz Svalöf.*131636. *Genuina brunnea* 2391.131637. *Grandiglumis cinerea* 8993.131638. *Grandiglumis hirsuta* 9093.131639. *Nodipilosa allo-aristata* 5106.

131640 to 131642. AVENA STRIGOSA Schreb.

131640. *Glabrescens albida* 7513.131641. *Glabrescens cambrica* 9411.131642. *Orcadensis nigra* 9249.131643. SOLANUM TRIFLORUM var. CALOPHYLLUM (Phil.) Bitter.
Solanaceae.From Sweden. Seeds presented by the Director of the Botanic Garden,
Upsala. Received February 21, 1939.

A coarse annual nightshade, native to Argentina and Chile.

For previous introduction see 110633.

131644 to 131663.

From France. Plants purchased from Paul Lecolier, La Celle-Saint-Cloud.
Received February 27, 1939.

131644 and 131645. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

131644. *Précoce Michelin.*131645. *Prof. Vidare.*131646. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.
De Viard.

131644 to 131663.—Continued.

- 131647 and 131648. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.
 131647. *Doux D'argent*.
 131648. *Reinette Grise de Vitry*.
- 131649 to 131659. *PRUNUS* spp. Amygdalaceae.
 131649 to 131653. *PRUNUS AVIUM* L. Sweet cherry.
 131649. *Bigarreau Gustave Dupau*.
 131650. *Bigarreau Noir de Kruger*.
 131651. *Bigarreau President Viger*.
 131652. *Guigne Noire Hative a Gros Fruits*.
 131653. *Guigne Ohio Beauty*.
 131654. × *PRUNUS EFFUSA* (Host) Schneid. Duke cherry.
Holman's Duke.
 131655. *PRUNUS CERASUS* L. Sour cherry.
Morello de Charmeux.
 131656 and 131657. *PRUNUS DOMESTICA* L. Common plum.
 131656. *Des Bejonnières*.
 131657. *Madeleine Nomblot*.
 131658 and 131659. *PRUNUS INSITITIA* L.
 131658. *Mirabelle Grosse*.
 131659. *Mirabelle Tardive Lecolier*.
- 131660 to 131663. *PYRUS COMMUNIS* L. Malaceae. Common pear.
 131660. *Andre Desportes*.
 131661. *Beurré Bretonneau*.
 131662. *Passe Crassane*.
 131663. *Passe Crassane Rouge*.
- 131664 and 131665.
 From Czechoslovakia. Scions presented by A. Spaldak, Olomouc-Nova U1,
 295. Received February 27, 1939.
131664. *JUGLANS REGIA* L. Juglandaceae. Persian walnut.
 A superior variety.
 131665. *PRUNUS* sp. Amygdalaceae.
 One of the Mitchurin cherries.
131666. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae. Sweetpotato.
 From Africa. Tubers presented by the Department of Agriculture, Nairobi,
 Kenya. Received September 6, 1938. Numbered in February 1939.
Nyagikuyu.
- 131667 to 131695. *AVENA* spp. Poaceae. Oats.
 From Poland. Seeds presented by the Institute of Plant Breeding, University
 of Krakow, Krakow. Received February 28, 1939.
131667. *AVENA BYZANTINA* Koch.
Piloso-rubida.
 131668. *AVENA NUDA* Hoejer. Naked oats.
 131669 to 131694. *AVENA SATIVA* L.
 131669. *Alaska No. 326*.

131667 to 131695.—Continued.

- 131670. *Bensings Findling*.
- 131671. *Beseler II*.
- 131672. *Dippes Weisshafer*.
- 131673. *Eckendorf Früh. "Berriesa."*
- 131674. *Fischers Wirchenblatter III*.
- 131675. *Fichtelgebirgshafer*.
- 131676. *Goldregenhafer (Zloty Deszcz)*.
- 131677. *Kirsches Gelbhafer*.
- 131678. *Kolbens Vienauer*.
- 131679. *Koscielecki*.
- 131680. *Krafts Gelbhafer*.
- 131681. *Marczak*.
- 131682. *Niemierczanski*.
- 131683. *Peragis*.
- 131684. *Podkowa*.
- 131685. *Pulawski*.
- 131686. *Radosinsky zlutý*.
- 131687. *Rychlik Oberek*.
- 131688. *Seledni No. 2*.
- 131689. *Sternhafer*.
- 131690. *Udycz biały*.
- 131691. *Udycz zółty*.
- 131692. *Valecovsky*.
- 131693. *Zieleniak Zamlicki*.
- 131694. *Zolty Lochowa (Lochow Niemcy)*.
- 131695. *AVENA STRIGOSA* Schreb.
No. 5081.

131696 to 131701. *SOLANUM TUBEROSUM* L. Solanaceae. **Potato.**
From the Netherlands. Tubers presented by Prof. Ir. C. Broekma, Director,
Institute of Plant Breeding, Wageningen. Received February 28, 1939.

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| 131696. <i>Ideal</i> . | 131699. <i>Record</i> . |
| 131697. <i>Matador</i> . | 131700. <i>Robyn</i> . |
| 131698. <i>Popular</i> . | 131701. <i>Ultimus</i> . |

131702 and 131703. *PYRUS COMMUNIS* L. Malaceae. **Common pear.**

From Iowa. Trees purchased from the Mount Arbor Nurseries, Shenandoah.
Received February 28, 1939.

- 131702. *Beierschmidt*.
- 131703. *Lincoln*.

131704. *MUSA* sp. Musaceae. **Banana.**
From Hawaii. Offshoots presented by L. W. Bryan, Associate Forester,
Division of Forestry, Hilo. Received March 2, 1939.

Koae or *Aeae*. This is considered a native Hawaiian banana, although it
was probably taken there several centuries ago by the natives when they
migrated from the south. It has variegated leaves and is probably a variety
of *Musa sapientum*.

131705. JUGLANS REGIA L. Juglandaceae. Persian walnut.
From Czechoslovakia. Seeds presented by A. Spaldak, Olomouc-Nova U1, 295.
Received February 27, 1939.

Received without notes. For the introduction of scions see 131664.

131706. CALLITRIS QUADRIVALVIS Vent. Pinaceae. Arar-tree.
From Malta. Seeds presented by the Director of Agriculture, Valletta.
Received February 27, 1939.

An evergreen shrub or small tree somewhat like Cupressus in habit, native to the mountains of northern Africa, with spreading, jointed branches, very small flattened leaves, and 4-sided cones. The wood is hard, durable, and fragrant.

For previous introduction see 78676.

131707 to 131718. PYRUS COMMUNIS L. Malaceae. Common pear.

From Michigan. Scions presented by the Experiment Station, South Haven.
Received August 29, 1938. Numbered in March 1939.

131707. No. 564.	131713. No. 431.
131708. No. 562.	131714. No. 665.
131709. No. 504.	131715. No. 437.
131710. No. 550.	131716. No. 544.
131711. No. 649.	131717. No. 566.
131712. No. 592.	131718. No. 642.

131719. TRIPHASIA BRASSII (C. T. White) Swingle. Rutaceae.

From New Guinea. Seeds collected by A. C. English, Rigo, Papua, and presented through the Botanic Gardens, Brisbane, Australia. Received March 3, 1939.

A slender shrub about 6 feet high with drooping branches, glossy, dark-green, ovate-rhomboid leaves, and small fragrant flowers, followed by scarlet berries about 1 inch in diameter. Native to Papua.

131720 to 131743.

From Italy. Scions purchased from Erneste Schwintzer, Bergamo. Received March 4, 1939.

131720. AMYGDALUS PERSICA L. Amygdalaceae. Peach.
Morellone d'Entratico.

131721 to 131724. MALUS SYLVESTRIS Mill. Malaceae. Apple.

131721. *Cardinale.*

131722. *Mela di Moio.*

131723. *Renetta Etscheid.*

131724. *Taffeta d'Inverno.*

131725 to 131741. PRUNUS spp. Amygdalaceae.

131725. PRUNUS ARMENIACA L. Apricot.
Mognaga.

131726. PRUNUS CERASUS L. Sour cherry.
Amarasca di Mondorf.

131727 to 131731. PRUNUS AVIUM L. Sweet cherry.

131727. *Calemer.*

131728. *Carnea.*

131720 to 131743.—Continued.

131729. *Comandante*.

131730. *Dell' Isola*.

131731. *9 Maggio*.

131732. PRUNUS CERASUS L.

Sour cherry.

Marenone di Verona.

131733 to 131737. PRUNUS AVIUM L.

Sweet cherry.

131733. *Marosticana*.

131734. *Moretta di Cesena*.

131735. *Nera di Bolzano*.

131736. *Precoce di Boitzenburg*.

131737. *Precoce di Bolzano*.

131738 to 131740. PRUNUS DOMESTICA L.

Common plum.

131738. *Casalinga*.

131739. *Della Bosnia*.

131740. *Di Francoforte*.

131741. PRUNUS SALICINA Lindl.

Japanese plum.

Florenzia.

131742 and 131743. PYRUS COMMUNIS L. Malaceae.

Common pear.

131742. *Armello*.

131743. *Professor Molon*.

131744. ARACHIS HYPOGAEA L. Fabaceae.

Peanut.

From China. Seeds presented by K. S. Liu, Agricultural Experiment Station, Tingfan, Kweichow, at the request of Dr. G. K. Middleton, Raleigh, N. C. Received March 7, 1939.

131745 to 131748.

From Mexico. Seeds presented by Mrs. Natalie Balls, Oakfields, Knebworth, Herts, England. Received February 28, 1939.

131745. CALOCHORTUS BARBATUS (H. B. K.) Painter (*C. flavus* Schult. f.). Liliaceae.

B-5219. From Toluca at 8,000 feet altitude. A herbaceous perennial with gray foliage, simple or branching slender stems up to 2 feet high, narrow linear leaves, and nodding deep-yellow flowers. This differs from most of the species native to the United States in having fibrous-coated bulbs. Native to the plateau region of Mexico.

131746. CESTRUM sp. Solanaceae.

B. 4367. A stiff, upright branching shrub up to 2 1/2 feet high, collected on Mount Orizaba at 9,200 feet altitude, in the shade of hedgerows. The tubular scarlet flowers are 1 1/2 inches long and the berries are red.

131747. LUPINUS GEOPHILUS Rose. Fabaceae.

B. 5064. From Toluca at 9,700 feet altitude. A prostrate herbaceous perennial, often forming a dense mat, with dark-blue flowers in dense spikelike racemes about 4 inches long. Native to open places in central Mexico.

131748. OXYTROPIS sp. Fabaceae.

B. 4462. From Sierra Negra at 10,400 feet altitude, found growing on dry lands among rough grass and shrubs. A bushy tufted plant with both stems and leaves gray hairy. The brilliant-scarlet flowers, 2 1/2 inches long, are borne stiffly on upright stems 10 inches tall.

131749 to 131751. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Germany. Tubers presented by the Kaiser-Wilhelm Institute für Züchtungs Forschung, Müncheberg Mark. Received March 8, 1939.

131749. *Frühgold*.

131750. *Ostbote*.

131751. *Voran*.

131752 to 131778.

From Germany. Plants purchased from Herman A. Hesse, Weener, Province of Hannover. Received March 8, 1939.

131752. *CEANOTHUS*. Rhamnaceae.

Var. *Azureus Grandiflorus*.

131753 to 131760. *DEUTZIA* spp. Hydrangeaceae.

131753. *DEUTZIA SETCHUENENSIS* var. *CORYMBIFLORA* (Lemoine) Rehd.

A variety differing from the type in its broader and larger leaves and many-flowered loose corymbs, 2 to 4 inches in diameter. Native to central China.

131754. × *DEUTZIA ELEGANTISSIMA* (Lemoine) Rehd. (*D. purpurascens* × *sieboldiana*).

131755. × *DEUTZIA CARNEA* var. *STELLATA* (Lemoine) Rehd.

A variety differing from the type chiefly in its narrower petals.

131756. × *DEUTZIA CANDELABRUM* (Lemoine) Rehd.

A hybrid deutzia which resembles *D. gracilis*, one of its parents. It has ovate-lanceolate leaves and numerous white flowers in panicles 3 to 6 inches long.

131757. × *DEUTZIA CANDELABRUM* var. *FASTUOSA* (Lemoine) Rehd.

A hybrid, *Deutzia gracilis* × *sieboldiana*, of erect habit, with numerous white flowers in upright panicles.

131758. *DEUTZIA GRACILIS* Sieb. and Zucc.

A free-flowering shrub, sometimes 6 feet high, with slender arching branches, green lanceolate leaves 1 1/2 to 3 inches long, and 9 to 15 white flowers in upright panicles or racemes. Native to Japan.

131759. *DEUTZIA HYPOGLAUCA* Rehder.

An upright shrub, up to 6 feet high, with ovate-oblong to oblong lanceolate leaves 1 1/2 to 3 inches long and many pure-white flowers in rounded corymbs 2 to 3 inches across. Native to central China.

131760. *DEUTZIA SIEBOLDIANA* var. *DIPPELIANA* C. K. Schneid.

A variety with broad-elliptic or broad-ovate leaves on the flowering branches.

131761 to 131775. *PHILADELPHUS* spp. Hydrangeaceae.

131761. *PHILADELPHUS LEWISII* var. *PARVIFOLIUS* Torr.

131762. *PHILADELPHUS GRANDIFLORUS* Willd.

A tall, strong-growing shrub up to 10 feet high, native from Virginia southward. When pruned, after blooming, it makes straight long shoots of 5 feet or more which are covered with lovely white flowers along their whole length during the early summer. This shrub is far superior in its display of flowers to any of the fragrant sorts.

For previous introduction see 52456.

131763. *PHILADELPHUS HIRSUTUS* Nut.

131764 to 131766. × *PHILADELPHUS LEMOINEI* Lemoine.

Lemoine mockorange.

131752 to 131778.—Continued.

131764. Var. *Boule Rose*.131765. Var. *Dresden*.131766. Var. *Fimbriatus*.131767. *PHILADELPHUS MICROPHYLLUS* A. Gray.131768 and 131769. × *PHILADELPHUS NIVALIS* Jacques.

A hybrid between *Philadelphus pubescens* and *P. coronarius*. The brown bark is usually exfoliating, the ovate leaves are usually rounded at the base, and the flowers, about 1 1/2 inches across, are in racemes.

131770. *PHILADELPHUS PEKINENSIS* Rupr. Peking mockorange.131771. *PHILADELPHUS PEKINENSIS* var. *KANSUENSIS* Rehder.

A shrub 4 to 9 feet high, with oblong-ovate to ovate-lanceolate leaves up to 3 inches long and racemes of 5 to 7 fragrant white flowers. Native to Kansu Province, China.

131772. *PHILADELPHUS PUBESCENS* Lois.131773. *PHILADELPHUS SERICANTHUS* var. *REHDERIANUS* Koehne. Silk mockorange.

A variety with broadly ovate leaves up to 4 1/2 inches long and 2 inches wide.

For previous introduction see 78943.

131774. *PHILADELPHUS TOMENTOSUS* Wall.

A shrub up to 9 feet high, with elliptic-ovate or ovate leaves 2 to 4 inches long and racemes of 5 to 7 fragrant flowers. Native to the temperate Himalayas.

131775. *PHILADELPHUS LAXUS* Schrad.131776. *PHILLYREA LATIFOLIA* L. Oleaceae. Broadleaf phillyrea.

An evergreen shrub or small tree up to 30 feet high, native to the Mediterranean region. The shining dark-green leaves are 2 inches long, and the racemes of small flowers are followed by small black fruits 1/4 inch in diameter.

For previous introduction see 76927.

131777. *PHILLYREA LATIFOLIA* var. *MEDIA* (L.) C. Schneid. Oleaceae.

An evergreen shrub or small tree with small elliptic-ovate or ovate-lanceolate, dark-green leaves. Native to the Mediterranean region.

131778. *SKIMMIA JAPONICA* var. *VEITCHII* (Carr.) Rehd. Rutaceae.

A Japanese shrub up to 5 feet or more, with yellowish-green leaves crowded at the ends of the branches and coral-red or bright-scarlet fruits about 1/3 inch in diameter. It is said to be one of the best smoke-enduring shrubs, but it is too tender to withstand the winters of the northern United States.

For previous introduction see 76116.

131779 to 131810.

From France. Trees purchased from Emile Rodolause, Grandes Pépinières d'Albias, Maubert, près Albias, Tarn-et-Garonne. Received March 9, 1939.

131779 to 131800. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.131779. *Angevine Hative*.131780. *Angevine Tardive*.131781. *Bardou-Job*.131782. *Belle Illoise*.131783. *Biscoute*.

131779 to 131810.—Continued.

131784. *Chilon*.
 131785. *Clemence Isaure*.
 131786. *Fanny Pelissier*.
 131787. *Galande Montreuil*.
 131788. *Genard*.
 131789. *Girerd No. 23*.
 131790. *Girerd Jaune*.
 131791. *Grosse d'Italie*.
 131792. *Inspecteur Battanchon*.
 131793. *Jaune de Paris*.
 131794. *Juliette de Saumachez*.
 131795. *Madame Lallot*.
 131796. *Madeline Rouge*.
 131797. *Monstrueuse Pelissier*.
 131798. *Rouge d'Aout*.
 131799. *Tardive d'Orléans*.
 131800. *Wallas*.
 131801 and 131802. *AMYGDALUS PERSICA* var. *NECTARINA* Ait. Amygdalaceae. Nectarine.
 131801. *Jaune Magnifique*.
 131802. *Port Sainte-Marie*.
 131803 to 131805. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.
 131803. *El-Giri*.
 131804. *L'Ille*.
 131805. *Reinette de Brive*.
 131806 to 131810. *PYRUS COMMUNIS* L. Malaceae. Common pear.
 131806. *Beurré Clergeaux*.
 131807. *Henriette Sesquierre*.
 131808. *Marie-Louise Marillat*.
 131809. *Tarquin des Pyrenées*.
 131810. *Winoska-Saska*.
 131811. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.
 From New Jersey. Plants presented by Dr. M. A. Blake, Agricultural Experiment Station, New Brunswick. Received March 9, 1939.
Bound Brook.
 131812. *SACCHARUM*. Poaceae. Sugarcane.
 From South America. Cuttings presented by the Estación Agrícola Experimental, Palmira, Colombia. Received March 10, 1939.
Comun × *S.C. 12* (4).
 131813 to 131842.
 From France. Trees and scions purchased from Lepage & Cie., Angers (Maine-et-Loire). Received March 10, 1939.
 131813 to 131818. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.
 131813. *Aribaud*.
 131814. *Elegante* (Guilloux 92).

131813 to 131842.—Continued.

131815. *Galande*.131816. *Mme. Bernold* (Gaillard 5).131817. *Prof. Villair*.131818. *Tournier*.131819 to 131830. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

131819. *Antoinette*.131820. *Colapuy*.131821. *Cusset*.131822. *Directeur Lesage*.131823. *Drap D'or Guemené*.131824. *Franç Roseau*.131825. *Frémy*.131826. *Grand 'mère*.131827. *Knysche*.131828. *Reinette de Chenée*.131829. *Reinette Descadre*.131830. *Reinette Pepin de Bourguel*.131831 to 131835. *PRUNUS AVIUM* L. Amygdalaceae.

Sweet cherry.

131831. *Bigarreau Antoine Nombrot*.131832. *Bigarreau Baumann*.131833. *Bigarreau Coeur de Pigeon*.131834. *Bigarreau Rosé Dur*.131835. *Bigarreau Tigré*.131836 to 131842. *PYRUS COMMUNIS* L. Malaceae.

Common pear.

131836. *Beurré Luizet*.131837. *Beurré Royal*.131838. *Octave Lachambre*.131839. *Rémy Chatenay*.131840. *Robitaille Père*.131841. *Sandar*.131842. *Beurre six*.131843. *PROSOPIS GLANDULOSA* Torr. Mimosaceae.From Mexico. Seeds presented by Ing. J. Manuel Corona, Mexico, D. F.
Received March 4, 1939.

131844 to 131861.

From France. Plants purchased from Croux Fils, Chatenay-Malabry, Seine.
Received March 11, 1939.131844 to 131850. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

131844. *Belle Henri Pinaut*.131845. *Brugnon Galopin*.131846. *Grosse Mignonne Hative*.131847. *Lady Palmerston*.131848. *Malte*.131849. *Princesse de Galles*.131850. *Vilmorin*.

131844 to 131861.—Continued.

131851 to 131853. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.

131851. *De Grignon.*

131852. *Reinette de Weidner.*

131853. *De Verité.*

131854 to 131859. *PRUNUS* spp. Amygdalaceae.

131854 and 131855. *PRUNUS ARMENIACA* L. Apricot.

131854. *Commun.*

131855. *Royal.*

131856. *PRUNUS.*

Belle de Montreuil, a cherry.

131857 to 131859. *PRUNUS AVIUM* L. Sweet cherry.

131857. *Guigne Noire des Vosges.*

131858. *Maria Gauchet.*

131859. *Reverchon.*

131860 and 131861. *PYRUS COMMUNIS* L. Malaceae. Common pear.

131860. *Boieldieu.*

131861. *Triomphe de Tournai.*

131862 to 131874. *RUBUS* spp. Rosaceae.

From England. Cuttings presented by John Innes, Horticultural Institution, Merton Park, London. Received March 11, 1939.

131862. *RUBUS AFFINIS* Weihe and Nees.

For previous introduction see 30264.

131863. *RUBUS BERTRAMII* G. Braun. Blackberry.

A European blackberry allied to *Rubus fruticosus*.

131864. *RUBUS CISSBURIENSIS* W. Barton and Riddelsdell.

A vigorous shrub with low arching, prostrate stems, rather thick leaves, and large, lilac or pink to nearly white flowers. Native to England.

131865. *RUBUS HIRTUS* Waldst. and Kit.

A prostrate, sometimes climbing, shrub with prickly stems and leaves made up of 3, sometimes 5, broadly oval, coarsely toothed, dark-green leaflets. The white flowers are produced in large panicles and the fruit is globular. Native to central Europe.

For previous introduction see 42753.

131866. *RUBUS INFESTUS* Weihe. Blackberry.

A European blackberry related to *Rubus fruticosus*.

131867. *RUBUS NITIDIOIDES* W. Watson.

A rubus with suberect stems and rather large lilac flowers, followed by large fruits resembling those of *Rubus elmeri*. Native to England.

For previous introduction see 123763.

131868. *RUBUS RHOMBIFOLIUS* Weihe. Blackberry.

A European blackberry, related to *Rubus vulgaris*, with ovoid, tasty fruits.

131869. *RUBUS ROSACEUS* Weihe and Nees. Blackberry.

A European blackberry with well-developed fruit; related to *Rubus koehleri*.

131870. *RUBUS ULMIFOLIUS* Schott.

Var. *Inermis*.

131862 to 131874.—Continued.

131871. *RUBUS SCHLECHTENDAHLII* Weihe. Blackberry.

A blackberry related to *Rubus macrophyllus*; native to Europe.

For previous introduction see 123766.

131872. *RUBUS THYRSIFLORUS* Weihe and Nees.

A European species with nearly prostrate, rarely climbing stems, leaves divided into 3 or 5 broad, irregularly toothed leaflets, rather small white flowers, and small fruits.

For previous introduction see 42788.

131873. × *RUBUS THYRSIGER* Banning and Focke.

A hybrid of *Rubus scaber*, differing from that species in having a narrow, often elongated inflorescence and broader leaflets, pilose beneath.

For previous introduction see 123767.

131874. *RUBUS*.

John Innes, a blackberry said to be a hybrid between *Rubus ulmifolius inermis* and *R. thyrsiger*.

For previous introduction see 131466.

131875. *TABEBUIA PALLIDA* (Lindl.) Miers. Bignoniaceae.

From Puerto Rico. Seeds presented by L. R. Holdridge, Associate Forester, Southern Forest Experiment Station, United States Department of Agriculture, Rio Piedras. Received March 6, 1939.

Roble. A vigorous deciduous tree 20 to 60 feet high, with flowers ranging in color on different trees from rose to very pale pink and appearing in masses before the leaves. The hard white wood is used for construction. In Puerto Rico this tree is called "roble" or "roble blanco," meaning oak or white oak. Native to the West Indies.

131876 to 131884.

From Argentina. Seeds collected by Paul E. Yatman, and presented through Swift & Co., Buenos Aires. Received March 7, 1939.

131876. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.

131877 to 131882. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

131877. *Campana*. From the District of Hudson, along the river 30 km. south of Buenos Aires.

131878. *Los Talas*. Collected along the Rio de la Plata near Rio Santiago, 30 km. south of Buenos Aires.

131879. *Palo Blanco*. Collected along the Rio de la Plata near Rio Santiago, 50 km. south of Buenos Aires.

131880. *Rey Humberto*. An Italian variety, imported from Italy, with elongated, pear-shaped fruits.

131881. *San Marzano*. An Italian variety.

131882. *Varela*. From the Florencio Varela District, 30 km. south of Buenos Aires.

131883 and 131884. *PISUM SATIVUM* L. Fabaceae. Pea.

131883. *Arroyo Seco*. From the Arroyo Seco District, 300 km. north of Buenos Aires.

131884. *Baradero*. From the Baradero District, 150 km. north of Buenos Aires, along the river.

131885. *LACTUCA ALTAICA* Fisch. and Mey. Cichoriaceae.

From Egypt. Seeds presented by Alfred Bircher, The Middle Egypt Botanic Station, El Saff. Received March 8, 1939.

131886. ZEPHYRANTHES sp. Amaryllidaceae.

From England. Bulbs presented by Mrs. Natalie Balls, Oakfields, Knebworth, Herts. Received March 14, 1939.

131887. VITIS sp. Vitaceae.**Grape.**

From France. Cuttings presented by J. Dufrenoy, Faculte des Sciences, University of Bordeaux, Bordeaux. Received March 13, 1939.

131888. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From Norway. Seeds purchased from Grimstad Gartneri, Grimstad. Received March 10, 1939.

Dänsk Eskport. No. 890.

131889. CARISSA GRANDIFLORA (E. Mey.) DC. Apocynaceae.**Carissa.**

From Florida. Plants growing at the United States Plant Introduction Garden, Coconut Grove. Numbered in March 1939.

P.I.G. No. 9481. *Gifford*. Received originally from Dr. J. C. Gifford, Miami, Fla. A variety which has larger fruits and is a more prolific bearer than the ordinary seedling forms of this species.

131890. ALSTROEMERIA HAEMANTHA Ruiz and Pav. Amaryllidaceae.

From England. Bulbs purchased from Bunyard's Nurseries, Maidstone. Received March 15, 1939.

A tuberous-rooted perennial with a flower stem 2 to 3 feet high, bearing thin lanceolate leaves 3 to 4 inches long and flowers in a compound umbel. The flowers, 2 inches long, are bright red tipped with green, the inner ones with red-purple spots on a red-yellow ground. It is native to Chile.

For previous introduction see 91802.

131891 to 131894.

From Scotland. Plants and roots purchased from Dobbie & Co., Edinburgh. Received March 16, 1939.

131891. PYRUS COMMUNIS L. Malaceae.**Common pear.****131892 to 131894. RHEUM RHAPONTICUM L. Polygonaceae.****Common rhubarb.**

131892. *Early Albert*.

131893. *Greengage*.

131894. *Scott's Monarch*.

131895 to 131899. ORYZA SATIVA L. Poaceae.**Rice.**

From British Guiana. Seeds presented by J. Sydney Dash, Director, Department of Agriculture, Georgetown. Received March 17, 1939.

131895. *Blue Stick*.

131896. *Demerara Creole*.

131897. No. 79.

131898. No. D-110.

131899. No. D-114.

131900 to 131907.

From Japan. Plants and bulbs purchased from K. Wada, Hakoneya Nurseries, Numazu-shi. Received March 17, 1939.

131900. EPIGAEA ASIATICA Maxim. Ericaceae.

131900 to 131907.—Continued.

A trailing arbutus from Japan, very similar to the American species, differing chiefly in being stronger throughout. The racemes usually consist of from 6 to 12 flowers.

For previous introduction see 103875.

131901. OPHIOPOGON PLANISCAPUS var. LEUCANTHUS (Makino) Nakai. Liliaceae.

A variety with scape and bracts entirely green, and pure-white flowers.

131902 and 131903. RHODODENDRON CAMTSCHATICUM Pall. Ericaceae.

A dwarf, more or less deciduous shrub with small obovate leaves and solitary or paired, terminal, rose-purple flowers. Native to Kamchatka and the Aleutian Islands.

For previous introduction see 95433.

131904. SCILLA THUNBERGIA Miyabe and Kudo. Liliaceae.

Var. *Albiflora*. A white-flowered form.

131905. SHORTIA UNIFLORA Maxim. Diapensiaceae.

Var. *Grandiflora*. A large-flowered form of a perennial herb native to Japan, closely resembling the native American *Shortia galacifolia*. The cordate leaves are broader than long and deeply sinuate toothed, and the white, bell-shaped flowers, 1 inch across, are borne on slender peduncles 3 to 8 inches tall.

For previous introduction see 103891.

131906. THALICTRUM COREANUM Lev. Ranunculaceae.

A herbaceous perennial with slender triquetrous stems, biternate, radical leaves, crenate, peltate stem leaves, and paniculate inflorescence. Native to eastern Asia.

131907. TRICYRTIS YATABEANA Masamune. Melanthiaceae.

A herbaceous perennial with leafy stems about 1 foot high, oblong-lanceolate leaves, and showy, yellow, bell-shaped flowers with dark-purple spots. Native to Japan.

For previous introduction see 114199.

131908 to 131931.

From Scotland. Seeds presented by Sir William Wright Smith, Regius Keeper, Royal Botanic Garden, Edinburgh. Received March 11, 1939.

131908. ARTHROPODIUM CANDIDUM Raoul. Liliaceae.

A tufted herbaceous perennial 3 to 14 inches high, with very narrow linear, grasslike leaves 2 to 10 inches long, and few to many small white flowers, each 1/2 inch across, on a slender scape. Native to New Zealand from sea level to 3,500 feet altitude.

For previous introduction see 125134.

131909 to 131912. FUCHSIA spp. Onagraceae.

131909. FUCHSIA BACILLARIS Lindl.

A compact plant with short-jointed branches and very small flaring-mouthed, rosy, drooping flowers. Native to Mexico.

For previous introduction see 101948.

131910. FUCHSIA MAGELLANICA Lam.

Magellan fuchsia.

Var. *Alba*.

131911. FUCHSIA PARVIFLORA Lindl.

A shrubby fuchsia, very similar to *F. lycioides*. It has oblong or ovate leaves, sometimes serrate, and purple flowers with pale-pink calyxes. Native to Mexico.

For previous introduction see 101952.

131908 to 131931.—Continued.

131912. FUCHSIA THYMIFOLIA H. B. K.

A shrub 3 to 6 feet high, with small, ovate, nearly opposite leaves, pubescent above, red flowers having obovate undulate petals, and red fruits. Native to Mexico.

For previous introduction see 97612.

131913. HYPOXIS VILLOSA L. f. Amaryllidaceae.

A stargrass with firm, lanceolate leaves 4 to 6 inches long and corymbs of small, yellow flowers. Native to South Africa.

131914. NEOMARICA VITTATA Sprague (*Marica humilis* Lodd.). Iridaceae.

A neomarica with narrow ensiform leaves 1 to 1 1/2 feet long, 1 or 2 large fugitive, yellowish-white flowers having several transverse, red-brown bars on the claws of the outer segments, and reflexed blue tips on the inner ones. Native to Brazil.

131915. NERINE sp. Amaryllidaceae.

Received as "Nerine candida," apparently a horticultural name of a plant related to *Nerine flexuosa alba*.

131916. NOMOCHARIS SALUENENSIS I. B. Balf. Liliaceae.

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

For previous introduction see 126600.

131917 to 131921. PITCAIRNIA spp. Bromeliaceae.

131917. PITCAIRNIA ANDREANA Linden.

A pitcairnia less than 1 foot high, of the *P. australis* group, with lanceolate, drooping, chartaceous leaves, white beneath, and bright-red flowers over 2 inches long in a bright-red raceme which is erect, moderately dense, and 5 inches long. Native to Venezuela.

For previous introduction see 89493.

131918. PITCAIRNIA INTEGRIFOLIA Ker.

131919. PITCAIRNIA MAIDIFOLIA Decaisne.

131920. PITCAIRNIA PUNICEA Scheidw.

131921. PITCAIRNIA UNDULATA Scheidw.

131922 to 131924. RHEUM spp. Polygonaceae.

131922. RHEUM COLLINIANUM Baill.

Collin rhubarb.

131923. RHEUM PALMATUM L.

Sorrel rhubarb.

131924. RHEUM RHAPONTICUM L.

Common rhubarb.

131925 to 131927. RHODODENDRON spp. Ericaceae.

131925. RHODODENDRON CHARTOPHYLLUM Franch.

A distant species with the general characteristics of *Rhododendron yunnanense*, but the leaves are usually deciduous, more narrowly oblanceolate, and entirely wanting in bristles on the upper surface, which are typical of the true *R. yunnanense*.

For previous introduction see 101958.

131926. RHODODENDRON PENTAPHYLLUM Maxim.

Fiveleaf azalea.

A deciduous shrub up to 25 feet high, with, usually, 5 elliptic-lanceolate leaves at the ends of the branches. The rose-pink flowers, 1 to 2 inches across, are solitary or in twos, appearing before or with the leaves which turn orange or crimson in the autumn. Native to Japan.

For previous introduction see 127627.

131908 to 131931.—Continued.

131927. RHODODENDRON TSCHONOSKII Maxim.

A forest shrub, native to Japan, with flaky bark, elliptic leaves 1/3 inch long, and heads of 1 to 4 small white flowers.

For previous introduction see 127630.

131928. ROSCOEA ALPINA Royle. Zingiberaceae.

A herbaceous perennial up to 6 inches high, with oblong-lanceolate leaves 3 to 4 inches long and 1 or 2 terminal flowers with white corolla tube and dark-purple limb. Native to the Himalayan region up to about 11,000 feet altitude.

131929. ROSCOEA HUMEANA Balf. and Smith.

A stout gingerlike perennial about 6 inches high, with cigar-shaped rhizomes, 4 to 6 broadly lanceolate, sessile leaves 4 to 8 inches long, and 4 to 8 large violet-purple flowers in a terminal spike. Native to Yunnan Province, China.

For previous introduction see 91446.

131930. ROSCOEA PURPUREA J. E. Smith.

A perennial herb 1 foot high, with lanceolate leaves and purple, pale-lilac, or white flowers in a sessile spike. Native to the central and eastern Himalayas up to 10,000 feet altitude.

For previous introduction see 91447.

131931. WACHENDORFIA THYRSIFLORA L. Haemodoraceae.

A tuberous herb with firm, strap-shaped leaves 2 to 3 feet long and a dense cylindrical panicle, 1 foot or longer, of bright-yellow flowers, the perianth over 1/2 inch long. Native to South Africa.

131932 to 131942. LOLIUM spp. Poaceae.

From Wales. Seeds presented by Dr. T. J. Jenkin, Welsh Plant Breeding Station, Aberystwyth. Received March 10, 1939.

131932. LOLIUM MULTIFLORUM Lam.

Italian ryegrass.

Strain S. 22.

131933 to 131935. LOLIUM PERENNE L.

Perennial ryegrass.

131933. Strain S. 23.

131934. Strain S. 24.

131935. Strain S. 101.

131936. LOLIUM REMOTUM Schrank.

Ba 3075 (4).1.

131937. LOLIUM REMOTUM var. ARISTATUM (Doell) Aschers.

3397 (1) Ba (1).

131938. LOLIUM RIGIDUM Gaud.

Grass.

917 Be (1).

131939. LOLIUM LOLIACEUM (Bory and Chaub.) Hand.-Mazz.

Wimmera ryegrass.

An annual bunch grass with much-branched, prostrate or ascending stems 2 to 8 inches long. Native to dry sandy places along the coast of southwestern Europe.

131940 and 131941. LOLIUM TEMULENTUM L.

Darnel.

131940. 3176 (27) Ba (1). (M 92/73).

131941. 3398 (5) Ba (1).

131942. LOLIUM sp.

927 Be (1).

131943 to 131946. GOSSYPIUM. Malvaceae. Cotton.

From Africa. Seeds presented by H. S. King, Plant Breeder, Agricultural Research Institute, Department of Agriculture and Forests, Wadi Medani, Anglo-Egyptian Sudan. Received March 20, 1939.

131943. \times 1530 (S.R. (c) 1228).

131944. *Domains Sakel* (S.R. (c) 1286).

131945. *Lecnem* (S.R. (c) 1068).

131946. *Gash Sakel* (S.R. (c) 1177).

131947 to 131951.

From France. Plants purchased from V. Lemoine & Son, Nancy. Received March 21, 1939.

131947. *DEUTZIA* sp. Hydrangeaceae.

Farrar No. 109.

131948 and 131949. *DEUTZIA*.

131948. Var. *Joconde*.

131949. Var. *Perle Rose*.

131950 and 131951. *PHILADELPHUS*. Hydrangeaceae.

131950. Var. *Amalthee*.

131951. Var. *Velleda*.

131952 and 131953. MIMUSOPS KAUKI L. Sapotaceae.

From India. Plants presented by the Globe Nursery, Calcutta. Received March 23, 1939.

131954. CAPSICUM FRUTESCENS L. Solanaceae.

Common redpepper.

From France. Seeds purchased from Vilmorin-Andrieux & Cie., Paris. Received March 20, 1939.

Ruby King.

131955. VITIS AMURENSIS Rupr. Vitaceae. Amur grape.

From Manchuria. Seeds collected by B. V. Skvortzov, Harbin. Received March 21, 1939.

131956 to 131963. CEANOTHUS. Rhamnaceae.

From France. Plants purchased from V. Lemoine & Son, Nancy. Received March 22, 1939.

131956. Var. *Autumnal Blue*.

131957. Var. *Biela*.

131958. Var. *Croix du Sud*.

131959. Var. *Mélusine*.

131960. Var. *Topaze*.

131961. Var. *Vesta*.

131962. Var. *Victor Jouin*.

131963. Var. *Intermedius Nanus*.

131964 to 131997.

From Belgium. Plants purchased from Armand Op de Beeck, Putte-les-Malines. Received March 22, 1939.

131964 to 131979. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

131964 to 131997.—Continued.

131964. *Berglander*.
 131965. *Bouton d'Or*.
 131966. *Docteur Seelig*.
 131967. *Glory of Holland*.
 131968. *Lemoen*.
 131969. *Leven Alma*.
 131970. *Lewis Incomparable*.
 131971. *Madame Macorps*.
 131972. *Notaire*.
 131973. *Orange Reinette*.
 131974. *Pater van den Elzen*.
 131975. *Pomme Framboise*.
 131976. *Rambourg d'Automme*.
 131977. *Reinette des Vingt Onces*.
 131978. *Reinette Jaune de Butzel*.
 131979. *Seedling of Windsor*.

131980 to 131988. PRUNUS spp. Amygdalaceae.

131980 to 131982. PRUNUS ARMENIACA L. Apricot.

131980. *Châteaubriand*.
 131981. *Du Chancelier*.
 131982. *Royal de Hollande*.

131983 to 131985. PRUNUS AVIUM L.

Sweet cherry.

131983. *Bigarreau Blanc*.
 131984. *Bigarreau Noir*.
 131985. *Bigarreau Tardif de Putte*.

131986. PRUNUS CERASUS L.

Sour cherry.

Courte Queue de Malines.

131987 and 131988. PRUNUS DOMESTICA L.

Common plum.

131987. *Altesse Double*.
 131988. *Altesse Simple*.

131989 to 131997. PYRUS COMMUNIS L. Malaceae.

Common pear.

131989. *Beurré Chaboceau*.
 131990. *Beurré Dilly*.
 131991. *Bruine Kriekpeer*.
 131992. *Citron d'été*.
 131993. *Kaiserin*.
 131994. *Lady Clappe*.
 131995. *Souvenir de Leyde*.
 131996. *Sainte Dorothy*.
 131997. *Zéphérin Grégoire*.

131998 to 132004.

From Germany. Scions and plants purchased from H. A. Schloesser, Neuss-Rhein. Received March 22, 1939.

131998 to 132000. MALUS SYLVESTRIS Mill. Malaceae.

Apple.

131998 to 132004.—Continued.

131998. *Freiherr von Solemacher.*131999. *Riesenboikenapfel.*132000. *Roter Bellefleur.*

132001. PRUNUS. Amygdalaceae.

Andenken an Spaa cherry.

132002. PRUNUS DOMESTICA L.

Common plum.

Fürsts Frühschwetsche.

132003. PYRUS COMMUNIS L. Malaceae.

Common pear.

Président Drouard.

132004. RHEUM RHAPONTICUM L. Polygonaceae.

Common rhubarb.

Mondorfer Rotstieliger.

132005 to 132024.

From Germany. Trees, scions, and roots purchased from L. Späth, Berlin.
Received March 23, 1939.

132005 to 132009. AMYGDALUS PERSICA L. Amygdalaceae.

Peach.

132005. *Eiserner Kanzler.*132006. *Reichardt's Pirsich.*132007. *Rheingold.*132008. *Roter Magdalenpirsich.*132009. *Roter Valparaizopirsich.*

132010 to 132012. MALUS SYLVESTRIS Mill. Malaceae.

Apple.

132010. *Adamsapfel.*132011. *Lunowerapfel.*132012. *Uhlhorn's Augustkalvill.*

132013. SORBUS sp. Malaceae.

Received without notes.

132014 to 132019. PRUNUS spp. Amygdalaceae.

132014 to 132016. PRUNUS AVIUM L.

Sweet cherry.

132014. *Beste Werdersche.*132015. *Flamentiner.*132016. *Liefelds Braune.*

132017 to 132019. PRUNUS DOMESTICA L.

Common plum.

132017. *Blaue Eierpflaume.*132018. *Bonne de Bry.*132019. *Kohlstock Zwetsche.*

132020. PYRUS COMMUNIS L. Malaceae.

Common pear.

Lübecker Sommerbergamotte.

132021. RHEUM RHAPONTICUM L. Polygonaceae.

Common rhubarb.

Holsteiner Blut.

132022 to 132024. SORBUS spp. Malaceae.

132022. SORBUS AUCUPARIA var. EDULIS Dieck.

132023. SORBUS AUCUPARIA var. ROSSICA Spaeth.

A variety similar to *Sorbus aucuparia* var. *edulis*, but with larger and more serrate leaflets.

132005 to 132024.—Continued.

132024. *SORBUS AUCUPARIA ROSSICA* Spaeth.Var. *Major*.132025. *CHRYSALIDOCARPUS LUCUBENSIS* Beccari. Phoenicaceae.
Palm.

From Puerto Rico. Seeds presented by Claud L. Horn, Agricultural Experiment Station, Mayaguez. Received March 24, 1939.

A rather tall, handsome palm with a spineless, ringed trunk and elongated pinnate leaves composed of rigid swordlike segments up to 3 feet in length. The obovate purplish fruits are about 1/2 inch long. Native to Madagascar.

For previous introduction see 130882.

132026. *EUCALYPTUS SALICIFOLIA* (Sol.) Cav. (*E. amygdalina* Labill.). Myrtaceae. Messmate gum.

From Australia. Seeds presented by F. H. Baker, Richmond, Victoria. Received March 20, 1939.

A tall tree up to 300 feet high, with lanceolate leaves 4 inches long, crowded umbels of small flowers, and hemispheric fruits 1/4 inch broad. The leaves have a strong odor of peppermint and are rich in oil. Native to Australia.

For previous introduction see 106332.

132027. *POGONOPUS SPECIOSUS* (Jacq.) Schum. Rubiaceae.

From Panama. Seeds presented by the Experiment Gardens, Summit, Canal Zone, through F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, Cuba. Received March 20, 1939.

A tropical American shrub or small tree up to 20 feet high, with broadly lanceolate leaves and broad cymes of scarlet flowers with brilliant red bracts.

For previous introduction see 76890.

132028 to 132031. *PRUNUS* spp. Amygdalaceae.

From Germany. Trees purchased from L. Späth, Berlin. Received March 23, 1939.

132028 and 132029. *PRUNUS AVIUM* L.

Sweet cherry.

132028. *Limburger Vogelkirschen*.132029. *Bulgarische Vogelkirschen*.132030 and 132031. *PRUNUS DOMESTICA* L.

Common plum.

132030. *Ackermann*.132031. *Kroosjes*.

132032 to 132034.

From Iowa. Scions presented by Harlow Rockhill, Conrad. Received March 24, 1939.

132032. *AMYGDALUS*. Amygdalaceae.A cross between the *Bailey* and *Davidiana* peach.132033 and 132034. *PRUNUS SALICINA* × *ARMENIACA*. Amygdalaceae.

For previous introduction see 107187.

132033. *Plumcot No. 6*.132034. *Plumcot No. 12*.

132035 to 132046.

From Germany. Plants purchased from L. Späth, Berlin. Received March 23, 1939.

132035 to 132046.—Continued.

132035. *CEANOTHUS AMERICANUS* L. Rhamnaceae. New-Jersey-tea.

132036. *CEANOTHUS DELILIANUS* Spach.

Var. *Grandiflorus*.

132037. × *DEUTZIA ROSEA* (Lemoine) Rehd. Hydrangeaceae.

A hybrid (*Deutzia gracilis* × *purpurascens*) with ovate-oblong to ovate-lanceolate leaves and short panicles of flowers which are pinkish outside and 3/4 inch across.

132038. *DEUTZIA SCABRA* Thunb.

Fuzzy deutzia.

Var. *Insignis*.

132039 to 132046. *PHILADELPHUS* spp. Hydrangeaceae.

132039. × *PHILADELPHUS CONGESTUS* Rehder.

A hybrid similar to *Philadelphus verrucosus*, but with smaller, narrower leaves and shorter, usually 5-flowered racemes.

132040. × *PHILADELPHUS INSIGNIS* Carr.

A tall shrub with ovate or broad-ovate leaves 2 to 4 inches long and large panicles of fragrant flowers.

132041. × *PHILADELPHUS MAGNIFICUS* Koehne.

A large spreading shrub with large leaves and flowers about 2 inches across, in 3- to 5-flowered racemes or cymes. Origin unknown.

132042. × *PHILADELPHUS PENDULIFOLIUS* Carr.

A low shrub with pendent ovate or elliptic leaves and racemes of 5 to 7 flowers. A hybrid of *Philadelphus pendulifolius*, the other parent being unknown.

132043. *PHILADELPHUS VERRUCOSUS* Schrad.

Var. *Polyander*. A shrub up to 9 feet high, with ovate or elliptic-ovate leaves and racemes of 5 to 7 flowers.

132044. *PHILADELPHUS PURPURASCENS* (Koehne) Rehd.

A shrub up to 12 feet high, with spreading and arching branches, elliptic-ovate or ovate to lanceovate leaves, and racemes of 5 to 9 pure white fragrant flowers. Native to western China.

132045. *PHILADELPHUS SCHRENKII* Rupr.

Schrenk mockorange.

For previous introduction see 131061.

132046. *PHILADELPHUS VERRUCOSUS* Schrad.

132047 to 132050. *CYRTANTHUS* spp. Amaryllidaceae.

From Africa. Bulbs purchased from the Mount Elgon Nurseries, Kitale, Kenya Colony. Received March 24, 1939.

132047. *CYRTANTHUS* sp.

A form with apricot-colored flowers.

132048. *CYRTANTHUS OCHROLEUCUS* (Herb.) Steud.

Flowers creamy white.

132049. *CYRTANTHUS* sp.

A form with dark-coral flowers.

132050. *CYRTANTHUS STENANTHUS* var. *MAJOR* R. A. Dyer.

Flowers yellow.

132051 to 132062. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae.

Sweetpotato.

From Puerto Rico. Tubers presented by W. K. Bailey, Agricultural Experiment Station, Mayaguez. Received March 25, 1939.

132051 to 132062.—Continued.

- | | |
|------------------------------------|-------------------------------|
| 132051. <i>Capiteleña</i> . | 132057. <i>Red Velvet</i> . |
| 132052. <i>Don Juan</i> . | 132058. <i>Russia No. 2</i> . |
| 132053. <i>Key West</i> . | 132059. <i>Russia No. 5</i> . |
| 132054. <i>Nueva Orleans</i> . | 132060. <i>Totiempo</i> . |
| 132055. <i>Puerto Rico B</i> . | 132061. <i>Vicentita</i> . |
| 132056. <i>Puerto Rico Sears</i> . | 132062. <i>Yuguilla</i> . |

132063 and 132064.

From Georgia. Seeds collected by Rogers McVaugh, Bureau of Plant Industry, United States Department of Agriculture. Received March 27, 1939.

132063. CLIFTONIA MONOPHYLLA (Lam.) Britton. Cyrillaceae.

Obtained at Irwinville, Irwin County, March 11, 1939.

132064. PINCKNEYA PUBENS Michx. Rubiaceae. Fever tree.

Obtained near Sylvester, Worth County, March 11, 1939.

132065 to 132084.

From England. Seeds presented by the Director, University Botanic Garden, Cambridge. Received March 20, 1939.

132065 to 132068. ALLIUM spp. Liliaceae.

132065. ALLIUM CAMPANULATUM S. Wats. (*A. bidwelliae* S. Wats.).

A pink-flowered onion, about 1 foot high, native to the Sierra Madre Mountains of California.

For previous introduction see 78976.

132066. ALLIUM CYANEUM Regel.

A rather dwarf plant, less than 1 foot high, with small heads of pendulous pale-blue flowers. Native to northern China.

For previous introduction see 104628.

132067. ALLIUM FARRERI W. T. Stearn.

An onion, native to Siku, China, with 4 to 6 linear leaves 10 to 15 inches long and lax umbels of 6 to 20 campanulate, red-purple flowers.

For previous introduction see 92490.

132068. ALLIUM SICULUM Ucria.

A handsome biennial, native to Sicily, with broad flat leaves and scapes 3 feet or more in height. The dull-purplish flowers are borne in drooping umbels. The species is characterized by a very strong odor when bruised.

For previous introduction see 58883.

132069. ANIGOZANTHOS FLAVIDA Red. Amaryllidaceae.

A herbaceous perennial, native to Western Australia, with a thick underground stem, linear radical leaves 1 to 2 feet long, and a 4-foot stalk, bearing a much-branched panicle of tubular, dull-yellowish flowers. The flowers and stem of the panicle are covered with a greenish-red wool.

For previous introduction see 76931.

132070. BRODIAEA PEDUNCULARIS (Lindl.) S. Wats. Liliaceae.

A brodiaea with a stout scape 1 to 2 feet high and an umbel of many white flowers. Native to California.

132071. CENTAURIUM UMBELLATUM Gilib. Gentianaceae.

132072. COLCHICUM BORNMUELLERI Freyn. Melanthiaceae.

A colchicum with yellowish flowers, lilac or purplish veined. Resembles *Colchicum byzantinum*. Native to Asia Minor.

132065 to 132084.—Continued.

132073 to 132077. GENTIANA spp. Gentianaceae.

132073. GENTIANA ASCLEPIADEA L.

Milkweed gentian.

A comparatively robust subalpine species forming clumps of vigorous stems up to 3 feet high, with opposite oval-pointed leaves. In late summer it produces, from the upper axils, almost sessile, trumpet-shaped, sapphire-blue flowers which weigh down the arching stalks. There is some variation in color from seed which germinates freely and produces flowering plants in about 3 years. The plant seems to be indifferent as to whether the soil is alkaline or not.

For previous introduction see 80271.

132074. GENTIANA CRUCIATA L.

Cross gentian.

One of the less difficult alpine species, making foot-high clumps with handsome dark-green foliage and producing crowded heads of small 4-lobed blue flowers in the late summer and early autumn. Native to Europe and northern Asia.

For previous introduction see 79233.

132075. × GENTIANA HASCOMBENSIS Musgrave.

A hardy rock-garden hybrid, *Gentiana lagodechiana* × *G. septemfida cordifolia*, larger in leaf and inflorescence than the latter parent. The flowers are uniform light blue.

132076. GENTIANA MACROPHYLLA Pall.

A herbaceous perennial, native to northern Europe and Asia, with an erect or ascending stem, narrow spreading leaves, and clustered heads of dark-blue flowers.

For previous introduction see 80278.

132077. GENTIANA SEPTEMFIDA Pall.

A gentian, native to Asia, which resembles *Gentiana asclepiadea*, requiring similar conditions. It makes spreading clumps up to 12 inches high, with opposite ovate leaves and heads of wide-mouthed, trumpet-shaped blue flowers in late summer. It varies considerably in habit and flower color, but all forms do well in peaty loam with ample water supply.

For previous introduction see 80284.

132078 to 132081. KALANCHOE spp. Crassulaceae.

132078. KALANCHOE ALEURODES W. T. Stearn.

A stately, robust, nearly white kalanchoe with erect stems up to 2 feet high, decussate, entire, oblong to spatulate leaves up to 5 inches long. Related to *Kalanchoe orgyialis*, but the crowded urceolate flowers are greenish and larger. Native to Rhodesia.

132079. KALANCHOE LANCEOLATA (Forsk.) Pers.

132080. KALANCHOE VELUTINA Welw.

A stout, erect, pale-green succulent 1 foot high, native to Somaliland, Africa. The obovate entire or obscurely crenulate leaves are over 3 inches long, and the flowers are in a flat cyme 4 to 5 inches across. The corolla tube is pale yellow, and the petals are bright orange-red.

132081. KALANCHOE THYRSIFLORA Harv.

A suffrutescent succulent, 2 to 4 feet high, native to southern Africa. The oblong-spatulate, pale-green leaves are 4 to 6 inches long, and the coral-orange flowers are borne in an oblong, compact panicle.

For previous introduction see 131095.

132082. ORNITHOGALUM COMOSUM L. Liliaceae.

132083. VIOLA MUNBYANA Boiss. and Reut. Violaceae.

132065 to 132084.—Continued.

A hardy perennial violet with short stems, ovate, crenate leaves having long channeled petioles, and a single large pale-yellow flower on a stout scape-like peduncle. Native to the Altai region, Siberia.

For previous introduction see 123417.

132084. *ZIGADENUS ELEGANS* Pursh. Melanthiaceae.

132085 and 132086.

From England. Plants purchased from George Pyne, Topsham, Devon.
Received March 27, 1939.

132085. *PRUNUS ARMENIACA* L. Amygdalaceae. Apricot.

Blenheim apricot.

132086. *RUBUS* sp. Rosaceae.

Pyne's Imperial raspberry.

132087 to 132104. *PYRUS* spp. Malaceae. Pear.

From Massachusetts. Scions presented by Alfred Rehder, Arnold Arboretum, Jamaica Plain. Received March 27, 1939.

132087. *PYRUS AMYGDALIFORMIS* Vill. Malaceae. Almond pear.

132088. *PYRUS AMYGDALIFORMIS* Vill.

Var. *Cuneifolia*. A form with small narrow leaves with a slender tapering base.

132089. *PYRUS AMYGDALIFORMIS* var. *PERSICA* (Pers.) Bornm.

A variety with oblong leaves up to 3 inches long and depressed globose fruits about 1 inch in diameter. Native to western Asia.

132090. *PYRUS BALANSAE* Decaisne.

For previous introduction see 29972.

132091. *PYRUS CALLERYANA* var. *FAURIERI* (C. Schneid.) Rehder.

A variety smaller in all its parts than the type; the leaves are sometimes broadly cuneate at the base and rather thin. Native to Chosen.

132092. *PYRUS COMMUNIS* var. *CORDATA* (Desv.) Hook. f.

A variety with suborbicular to ovate, subcordate leaves about 1 inch across.

132093. *PYRUS COMMUNIS* L.

Var. *Cotinifolia*.

132094. *PYRUS COMMUNIS* var. *PYRASTER* L.

A form of the common pear having fruits the size and shape of a cherry, originating in the northeastern part of Iran (Persia).

For previous introduction see 33172.

132095. *PYRUS ELAEAGRIFOLIA* Pall.

An ornamental wild pear native to Asia Minor, which becomes a large bush or small tree. The leaves are lanceolate, oblong-lanceolate, or linear-lanceolate and covered with a whitish silky pubescence. The small white flowers appear in May, and the small globose fruits are crowned with a prominent calyx.

For previous introduction see 108769.

132096. × *PYRUS MICHAUXII* Bosc.

A natural hybrid between *Pyrus amygdaliformis* and *P. nivalis*, native to Asia Minor. The shining leaves are ovate-oblong, and the small clusters of white flowers are followed by turbinate, greenish-yellow fruits.

For previous introduction see 54099.

132087 to 132104.—Continued.

132097. *PYRUS NIVALIS* Jacq.

A tree, native to Asia Minor, with the young shoots thickly covered with white wool. The ovate, entire leaves are 3 inches long, and the conspicuous clusters of yellowish-white flowers, 1 to 2 inches across, produce yellowish-green fruits often 2 inches in diameter.

For previous introduction see 64227.

132098. *PYRUS PHAEOCARPA* f. *GLOBOSA* Rehder.

A medium-sized Chinese tree with lustrous deep-green-ovate leaves and unusually large white flowers. The fruits differ from those of the type in being globose instead of pear-shaped.

For previous introduction see 54101.

132099. *PYRUS SALICIFOLIA* Pall.

Var. *Pendula*. A form with slenderer and more pendulous branches.

132100. *PYRUS SERRULATA* Rehder.

A Chinese tree often 25 feet high, with ovate serrulate leaves, small white flowers, and brown ovoid fruits about 1/2 inch long.

For previous introduction see 54103.

132101. *PYRUS SYRIACA* Boiss.

A wild pear.

For previous introduction see 29994.

132102. *PYRUS USSURIENSIS* var. *HONDOENSIS* (Kik. and Nak.) Rehder.

Hondo pear.

For previous introduction see 55971.

132103. *PYRUS USSURIENSIS* Maxim.

Ussurian pear.

Shu-li.

132104. *PYRUS* sp.

Arboretum No. 17500.

132105 to 132126. *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 March 28, 1939.

A collection of wheats resistant to leaf rust.

132105. *Argentine C 8681*. No. 10623.

132106. *38 N.A. Argentine C 9656*. No. 10641.

132107. *Egypt N.A. 95 C 12095*. (Orig. Kenya.)

132108. *Kenya C 6040*.

132109. *Kenya C 6041*.

132110. *Kenya C 6042*.

132111. *Kenya C 9968*.

132112. *Kenya C 10857*.

132113. *Kenya C 10860*.

132114. *Kenya C 10861*.

132115. *Kenya C 10865*.

132116. *Kenya × Baringa G 138-1-E 1-L 1-Go-Do*.

132117. *K 33 Argentine C 9655*. No. 10636.

132118. *K 33 Argentine C 9607*. No. 10633.

132105 to 132126.—Continued.

- 132119. *K 40 Argentine C 9658*. No. 10644.
- 132120. *Klein 40 C 9606*. No. 10637.
- 132121. *Kleintron C 10817*. No. 10643.
- 132122. *Uruguay C 10834*. No. 10717.
- 132123. *Uruguay C 10835*. No. 10710.
- 132124. *Uruguay C 10836*. No. 10716.
- 132125. *Uruguay C 10837*. No. 10704.
- 132126. *Uruguay C 10838*. No. 10707.

132127 to 132146.

From the Union of Soviet Socialist Republics. Scions presented by the Institute of Plant Industry, Leningrad. Received March 29, 1939.

- 132127 to 132132. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.
- 132127. *Bliudchaty Ranny* No. 25.
- 132128. *Bliudchaty Ranny* No. 240.
- 132129. *Shaftali*.
- 132130. Var. *Ferganensis*, *Ranny Bely*.
- 132131. Var. *Ferganensis* "*Zholty*" (*Zholto-Miassy*.) (?)
- 132132. Var. *Ferganensis* No. 52.

132133 to 132146. *PRUNUS* spp. Amygdalaceae.

- 132133 to 132139. *PRUNUS ARMENIACA* L. Apricot.
- 132133. *Badami* No. 8.
- 132134. *Fadschi*.
- 132135. *Isfarak* No. 789.
- 132136. *Kalisarife*.
- 132137. *Khurmai*.
- 132138. *Spitak*.
- 132139. *Tabossa*.

132140. *PRUNUS CERASIFERA* Ehrh. Myrobalan plum.

Kok-Sultan.

132141 to 132144. × *PRUNUS DASYCARPA* Ehrh. Plum-apricot.

For previous introduction see 131421.

- 132141. *Krupnaja*.
- 132142. *Uriuko-Sliva*, No. 1258.
- 132143. *Uriuko-Sliva*, No. 1276.
- 132144. *Zaroliu*.

132145 and 132146. *PRUNUS MANDSHURICA* (Maxim.) Koehne.

For previous introduction see 119858.

- 132145. No. 1884.
- 132146. No. 1888.

132147 and 132148. *CITRUS* spp. Rutaceae.

From Cuba. Budwood presented by Thomas R. Towns, Holguin. Received March 29, 1939.

- 132147. *CITRUS SINENSIS* (L.) Osbeck. Orange.
- Towns' Cuban Navel*. A bud mutation of Washington Navel orange.

132147 and 132148.—Continued.

132148. CITRUS AURANTIUM L.

Seville orange.

Kotidiana. A sour-orange mutation with leaves of variegated color. It produces seedlings of exceptional vigor.

132149 to 132156.

From Germany. Plants and roots purchased from Christian Fey, Meckenheim, Köln. Received March 29, 1939.

132149 and 132150. MALUS SYLVESTRIS Mill. Malaceae.

Apple.

132149. *Halberstädter Jungfernapfel*.132150. *Uhlhorns August Calville*.

132151 to 132154. PRUNUS spp. Amygdalaceae.

132151. PRUNUS AVIUM L.

Sweet cherry.

Späte Braune.

132152 and 132153. PRUNUS DOMESTICA L.

Common plum.

132152. *Gute Aus Bry*.132153. *Hauszwetsche*.

132154. PRUNUS ARMENIACA L.

Apricot.

Aprikose Aus Wachendorf.

132155. PYRUS COMMUNIS L. Malaceae.

Common pear.

Stuttgarter Geisshirtle.

132156. RHEUM RHAPONTICUM L. Polygonaceae.

Common rhubarb.

Holsteiner Blut.

132157 to 132163. PRUNUS spp. Amygdalaceae.

From Manchuria. Seeds presented by A. Woeikoff, North Manchurian University, Harbin. Received March 24, 1939.

132157 to 132162. PRUNUS ARMENIACA L.

Apricot.

132157. Parent tree vigorous, withstands low temperatures; fruit, yellow with red blush, freestone, and of pleasant spicy flavor.

132158. A mixed sample of seeds from trees which withstand low temperatures. Fruits yellow-fleshed and of good quality.

132159. Parent tree bears apricots of the best size and quality in Harbin, but is not as cold-resistant as those of P.I. 132157 and 132158. A seedling of P.I. 132162.

132160. From a cold-resistant tree bearing red-blushed, oblong fruits of good quality.

132161. From a cold-resistant tree bearing medium-sized, sour fruits. Tree somewhat resembles *Prunus mandchurica*.

132162. From an annual-bearing, 30-year-old tree.

132163. PRUNUS sp.

From cold-resistant trees somewhat resembling *Prunus sibirica*. Fruit of good quality but small size.

132164 to 132170.

From Tasmania. Seeds presented through the McFadden Seed Co., Winnipeg, Canada. Received March 23, 1939.

132164. DACTYLIS GLOMERATA L. Poaceae.

Orchard grass.

Cocksfoot grass (pedigreed).

132165. LOLIUM MULTIFLORUM Lam. Poaceae.

Italian ryegrass.

132164 to 132170.—Continued.

132166. *LOLIUM* sp.*Wimmera ryegrass* (certified).132167. *PHALARIS TUBEROSA* L. Poaceae.

For previous introduction see 130893.

132168 to 132170. *TRIFOLIUM* spp. Fabaceae.

Clover.

132168. *TRIFOLIUM PRATENSE* L.

Red clover.

Montgomery (certified).132169. *TRIFOLIUM REPENS* L.

White clover.

Permanent Pasture (certified).132170. *TRIFOLIUM SUBTERRANEUM* L.

Subterranean clover.

Midseason Strain (certified).

132171 to 132186.

From the Union of Soviet Socialist Republics. Seeds presented by the Botanic Garden, Nikita, through the Institute of Plant Industry, Leningrad. Received March 25, 1939.

132171 to 132176. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

132171. *Aidinovsky*.132172. *Aidinovsky Karmir*.132173. *Arabka*.132174. *Geokchaisky*.132175. *Geokchaisky Bely*.132176. *Gudantsky*.132177. *MALUS PUMILA* Mill. Malaceae.

Paradise apple.

From the south slopes of the Gissar Mountains, along the River Varsob, central Asia, at 1,000 m. altitude.

For previous introduction see 115081.

132178 to 132186. *PRUNUS* spp. Amygdalaceae.132178 to 132185. *PRUNUS CERASIFERA* Ehrh.

Myrobalan plum.

132178. From District Gerusy, Transcaucasus.

132179. From District Sochi, Caucasus.

132180. From District Kamani, Caucasus.

132181. From Osetia, North Caucasus.

132182. From District Maikop, North Caucasus.

132183. From District Orgeonikidze, North Caucasus.

132184. From District Tuapse, North Caucasus.

132185. Along the River Varsob, on the south slopes of the Gissar Mountains, central Asia.

132186. *PRUNUS MAHALEB* L.

Mahaleb cherry.

From along the River Varsob, on the south slopes of the Gissar Mountains, central Asia.

132187 to 132192.

From Germany. Plants purchased from Herm. P. Mauk, Wurttemberg. Received March 30, 1939.

132187 to 132189. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

132187 to 132192.—Continued.

132187. *Coulon Reinette*.132188. *Heilbronner Samling*.132189. *Kirchwärder*.

132190 and 132191. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

132190. *Ambrosia*.132191. *Mombacher Eieraprikose*.

132192. RUBUS sp. Rosaceae.

Schwabenstolz raspberry.

132193 to 132200.

From South America. Seeds collected by the Baker and Collins Expedition, Experiment Station of the Pineapple Producers' Cooperative Association, Ltd., University of Hawaii, Honolulu, Hawaii. Received March 22, 1939.

132193 and 132194. ARISTOLOCHIA spp. Aristolochiaceae.

132193. February 17, 1939. From Moura, Distrito Federal, Brazil.

132194. December 8, 1938. From Puerto Bertoni, Paraguay.

132195 and 132196. BEGONIA spp. Begoniaceae.

132195. December 7, 1938. From Iguazu Falls, Misiones, Argentina.

132196. December 8, 1938. From Serra Brata, near Realengo, Distrito Federal, Brazil.

132197. JACARATIA HASSLERIANA Chodat. Papayaceae.

January 1939. From the Jardín Botánico, Asunción, Paraguay. An unarmed shrub 3 to 8 feet high, with small palmate 3- to 5-foliolate leaves and oblong fruits about 2 inches long and 1 inch thick, green with longitudinal cinnabar stripes.

132198. PASSIFLORA sp. Passifloraceae.

From the Jardim de Padres, Bella Vista, Matto Grosso, Brazil, January 25, 1939. Fruit is green when ripe.

132199. TABEBUIA IPE (Mart.) Standl. Bignoniaceae.

Lapache (Spanish name), *Toyi* (Guaranian name). From San Bernardino, Paraguay, December 16, 1938. A handsome tree, native to Brazil, with digitate leaves and showy red flowers in terminal clusters.

For previous introduction see 118401.

132200. VERBENA MEGAPOTAMICA Spreng. Verbenaceae.

From Antequera, Paraguay, January 3, 1939. A red-flowered verbena which thrives in dry areas.

132201 to 132218. GLYCINE MAX (L.) Merrill. Fabaceae.

Soybean.

From the Netherlands. Seeds presented by Dr. L. Koch, Zeist. Received March 30, 1939.

132201. No. D. 1.

132210. No. E. 1.

132202. No. D. 3.

132211. No. E. 34.

132203. No. D. 4.

132212. No. E. 39.

132204. No. D. 5.

132213. No. E. 44.

132205. No. D. 6.

132214. No. D. 47.

132206. No. D. 7.

132215. No. E. 50.

132207. No. D. 14.

132216. No. E. 52.

132208. No. D. 15.

132217. No. E. 59.

132209. No. D. 16.

132218. No. E. 60.

132219. HEDYCHUM CORONARIUM Koen. Zingiberaceae
Common gingerlily.

From Bolivia. Bulbs collected by H. L. Blood, Agricultural Experiment Station, Logan, Utah, in cooperation with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received February 18, 1938. Numbered in March 1939.

No. 230. Collected in a wet ravine near Chulumani at about 6,000 feet altitude.

132220 to 132222. TRIFOLIUM SUBTERRANEUM L. Fabaceae.
Subterranean clover.

From Australia. Seeds presented by the Department of Agriculture, Adelaide, South Australia. Received March 28, 1939.

132220. *Dwalganup.*

132221. *Mt. Barker.*

132222. *Tallarook.*

132223 to 132232.

From Germany. Plants purchased from Wilhelm Pitzer, Stuttgart. Received March 31, 1939.

132223 and 132224. *AMYGDALUS PERSICA L. Amygdalaceae. Peach.*

132223. *Perle von Cannstatt.*

132224. *Rheingold.*

132225 and 132226. *MALUS SYLVESTRIS Mill. Malaceae. Apple.*

132225. *Gewürzluiken.*

132226. *Thuringer Winter-Rambour.*

132227. *PRUNUS sp. Amygdalaceae.*

Strehlskirsche cherry.

132228 to 132230. *PYRUS COMMUNIS L. Malaceae. Common pear.*

132228. *Grüne Jagdbirne.*

132229. *Luxemburger Mostbirne.*

132230. *Schweizer Wasserbirne.*

132231. *RHEUM RHAPONTICUM L. Polygonaceae. Common rhubarb.*

Schwäbisches Vollblut.

132232. *RIBES sp. Grossulariaceae.*

Michaelberg gooseberry.

132233. STYRAX OFFICINALIS L. Styracaceae. Snowbell.

From Turkey. Seeds collected by H. L. Westover and F. L. Wellman, Bureau of Plant Industry, United States Department of Agriculture. Received November 13, 1936. Numbered in March 1939.

No. 1024. An ornamental shrub or small tree, collected 6 km. southeast of Kemal Pasha, September 23, 1936.

For previous introduction see 112859.

132234 to 132247.

From Denmark. Seeds presented by the Danske Landboforeninger Froforsyning, Roskilde. Received March 27, 1939.

132234. *BETA VULGARIS L. Chenopodiaceae. Beet.*

Spangsbjerg Toftoe P. 38. A red beet.

132234 to 132247.—Continued.

132235 to 132238. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae.
Cabbage.

132235. White cabbage, *Amager Tall, Toftoe P. 37.*

132236. White cabbage, *Amager Semi-tall Toftoe P. 37.*

132237. Marrow cabbage, *Erstling Oetofte, P. 36.*

132238. White cabbage, *Ruhm van Enkhuizen* (Glory of Enkhuizen).
Roskilde P. 27.

132239 to 132241. DAUCUS CAROTA L. Apiaceae. Carrot.

132239. *Amager Winter.*

132240. *Improved Nantes.*

132241. *London Market.*

132242 and 132243. PETROSELINUM CRISPUM (Mill.) Nym. Apiaceae.
Parsley.

132242. *Extra Moss-curled, Oetofte P. 34.*

132243. *Large, heavy sugar, Oetofte P. 36.*

132244 to 132247. RAPHANUS SATIVUS L. Brassicaceae. Radish.

132244. *Copenhagen market, Oetofte P. 30.*

132245. *Icicle Roskilde P. 30.*

132246. *Oval forcing Toftoe P. 37.*

132247. *Saxa.*

132248 to 132267. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

From Manchuria. Seeds presented by A. Woeikoff, manager, Garden of Manchurian Flora, Harbin. Received March 28, 1939.

132248. No. 1. Skin white with green stripe, flesh white, sweet, but not very fragrant. The most common form sold in the Harbin market.

132249. No. 2. Fruit oblong; skin white with green stripe; flesh white, sweet, not very fragrant.

132250. No. 3. *Tiger's skin.* Fruit large with vivid black-green stripes on a yellow or yellow-green ground; flesh dark green shading to orange-yellow near the seed cavity; sweet and aromatic.

132251. No. 4. *Ching Pi Gua.* Fruit yellow; flesh white; similar to P.I. 132248.

132252. No. 5. *Tzin Pi.* Fruit yellow with narrow stripes; flesh green and very sweet.

132253. No. 6. Fruit white, very large, egg-shaped; flesh sweet and very aromatic.

132254. No. 7. Fruit white, oblong; flesh not sweet. Possibly a hybrid.

132255. No. 8. Fruit small, skin green, covered with small mesh.

132256. No. 9. *Ya Gua.* Fruit small, round, egg-shaped, white with broken green stripes; flesh white, sweet, crisp, and fairly aromatic. The vine sometimes bears 12 fruits.

132257. No. 10. *Tsin Toutsì.* Fruit muddy green with narrow dark-green stripes; flesh green, aromatic, and, when overripe, sometimes mealy.

132258. No. 11. *Hsiao Shui.* Fruit yellow with broken green stripes; flesh white without liquid in the seed cavity; similar to No. 1 (P.I. 132248).

132259. No. 12. Fruit yellow-white with vivid green stripes; flesh white, aromatic.

132260. No. 14. Fruit long, club-shaped; similar to No. 1 (P.I. 132248).

132248 to 132267.—Continued.

132261. No. 15. Similar to No. 1 (P.I. 132248), but the skin has lighter stripes.

132262. No. 16. *Tji Doza*. Fruit light green or yellow with very dark green stripes; flesh green, becoming orange near the center.

132263. No. 17. Fruit with broad undefined stripes; flesh orange.

132264. No. 18. Fruit light green with dark-green stripes, flesh green and solid.

132265. No. 19. Fruit light green with distinct narrow stripes, flesh orange.

132266. No. 20. Fruit similar to No. 3 (P.I. 132250), with green flesh.

132267. No. 21. The earliest melon on the market at Harbin; very similar to No. 1 (P.I. 132248).

132268 to 132270. MELILOTUS spp. Fabaceae. Sweetclover.

From Rumania. Seeds presented by the Director, Botanic Garden, University of Bucharest. Received March 28, 1939.

132268. MELILOTUS ALBA Desr. White sweetclover.

132269. MELILOTUS DENTATA (Waldst. and Kit.) Pers.

132270. MELILOTUS OFFICINALIS (L.) Lam.

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- Rubus*, 131466, 131874.
- Rubus* spp., 131467, 132086, 132192.
- affinis*, 131862.
- bertramii*, 131863.
- cisaburiensis*, 131864.
- hirtus*, 131865.
- infestus*, 131866.
- nitidioides*, 131867.
- rhubifolius*, 131868.

- Rubus rosaceus*, 131869.
- schlechtendalii*, 131871.
- thyrsiflorus*, 131872.
- thyrsiger*, 131873.
- ulmifolius*, 131870.
- Ryegrass, Italian. See *Lolium multiflorum*.
- perennial. See *L. perenne*.
- wimmera. See *L. loliaceum*.

- Saccharum*, 131812.
- Scilla thunbergia*, 131904.
- Shortia uniflora*, 131905.
- Skimmia japonica* var. *veitchii*, 131778.
- Snowbell. See *Styrax officinalis*.
- Soja* max. See *Glycine* max.
- Solanum tuberosum*, 131696-131701, 131749-131751.
- triflorum* var. *calophyllum*, 131643.

- Sorbus* sp., 132013.
- aucuparia* var. *edulis*, 132022.
- aucuparia* var. *rossica*, 132023, 132024.

- Soybean. See *Glycine* max.
- Styrax officinalis*, 132233.
- Sugarcane. See *Saccharum*.
- Sweetclover. See *Melilotus* spp.
- white. See *M. alba*.
- Sweetpotato. See *Ipomoea batatas*.
- Swinglea glutinosa*, 131248.

- Tabebuia ipe*, 132199.
- pallida*, 131875.
- Thalictrum coreanum*, 131906.
- Tomato. See *Lycopersicon esculentum*.
- Tricyrtis yatabeana*, 131907.
- Trifolium pratense*, 132168.
- repens*, 132169.
- subterraneum*, 131587, 131588, 132170, 132220-132222.
- Trigonella caerulea*, 131592.
- Triphasia brassii*, 131719.
- Triticum aestivum*, 131250-131279, 131354-131401, 132105-132126.
- Tutcheria spectabilis*, 131428.

- Verbena megapotamica*, 132200.
- Viola munbyana*, 132083.
- Vitis* sp., 131887.
- amurensis*, 131955.

- Wachendorfia thyrsiflora*, 131931.
- Walnut, Persian. See *Juglans regia*.
- Wheat, common. See *Triticum aestivum*.

- Zephyranthes* sp., 131886.
- Zigadenus elegans*, 132084.