PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY, October 1 to December 31, 1939 (Nos. 134284 to 134735)

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This inventory, No. 141, lists plant material (Nos. 134284 to 134735) received by the Division of Plant Exploration and Introduction during the period from October 1 to December 31, 1939. It is a historical record of plant material introduced for Department and other specialists, and is not to be considered as a list of plant material for distribution.

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Plant Industry Station, Beltsville, Md.

INVENTORY

134284 to 134295. CINCHONA spp. Rubiaceae.

From New Jersey. Seeds presented by Merck & Co., Inc., Rahway. Received October 25, 1939.

134284. No. 3.
134285. No. 7.
134286. No. 13.
134287. No. 21.
134288. No. 24.
134289. No. 28.
134290. No. 30.
134291. No. 31.
134292. No. 33.
134293. No. 35.
134294. No. 40.
134295. No. 45.

134296. ELLIOTTIA RACEMOSA Muhl. Ericaceae.

From Georgia. Seeds presented by William A. Knight, Biltmore Forest, Biltmore, N. C. Received October 21, 1939.

A shrub or small tree with slender upright branches, small, oblong or elliptic-oblong leaves, and loose racemes of fragrant white flowers with petals about ½ inch long. Native to the southeastern United States.

For previous introduction see 114525.

1 Now Bureau of Plant Industry, Soils, and Agricultural Engineering, Agricultural Research Administration, United States Department of Agriculture.
134297. **Crocus sativus** L. Iridaceae.
From India. Bulbs purchased from G. Ghose & Co., Townend, Darjeeling. Received October 28, 1939.
A form with very dark-purple flowers. Introduced as *Crocus kashmerianus*; considered a form of the above.
For previous introduction see 112110.

134298. **Amygdalus sp.** Amygdalaceae.
Collected June 23, 1939, on a dry hillside above the lake on the Khalsijabbar road to Jalalabad.

134299. **Prunus cerasus** L. Amygdalaceae. **Sour cherry.**
From Afghanistan. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received October 26, 1939.
No. 4475. *Alyubalu*. From Kabul, August 13, 1939. A somewhat flattened, dark-red cherry about \( \frac{3}{4} \) inch in diameter.

134300 and 134301. **Hibiscus cannabinus** L. Malvaceae. **Ambari hemp.**
From India. Seeds presented by the Senior Marketing Officer, Civil Lines, Delhi, through B. P. Pal, Imperial Economic Botanist, New Delhi. Received October 27, 1939.
For previous introduction see 133728.

134302 to 134304. **Amygdalus persica** L. Amygdalaceae. **Peach.**
134303. Selection from P. I. 87637.

134305. **Centauraea rothrockii** Green. Asteraceae.
Originally collected as seeds in Colorado, Chiapas, Mexico, in 1936 by J. H. Kempton, Bureau of Plant Industry, United States Department of Agriculture.
An annual with sparingly branched stems 1 to 3 feet high, lanceolate to oblanceolate, sessile and often clasping leaves up to 5 inches long and large flower heads with conspicuous, usually purple, rays much exceeding the lemon-yellow disk flowers. Native to Arizona and Mexico.

134306 to 134311.
From Mexico. Seeds collected by Peter Heinz, Brownsville, Tex. Received October 2, 1939.

134306. **Angelonia angustifolia** Benth. Scrophulariaceae.
From a swamp in Tuzapan, Puebla. A glabrous herbaceous perennial up to 1 foot high with narrow-lanceolate toothed leaves and showy violet or purple flowers in terminal racemes. Native to Mexico.

134307. **Castela texana** (Torr. and Gray) Rose. Simaroubaceae.
A dense shrub 3 to 8 feet high, with stiff whitish branches, simple leaves about \( \frac{3}{4} \) inch long, small bright-red or purplish flowers, followed by small red fruits. Native to southwestern Texas and Mexico.
134306 to 134311—Continued

134308. **OESTBUM** sp. Solanaceae.
A tall shrub, very fragrant at night, with numerous, very conspicuous, large bunches of white waxy berries.

134309. **HEUCONIA** sp. Musaceae.
A plant with bright-blue seeds, collected at 3,000 feet altitude at Tuzapan, Puebla, 100 miles south of Tuxpan, Veracruz, Mexico.

134310. **MAUPIGHIA** sp. Malpighiaceae.

134311. **THBYAIXIS** sp. Malpighiaceae.
Small yellow flowers.

134312. **ZAMIA** sp. Cycadaceae.
From Ecuador. Seeds collected in Guayaquil by Oscar Haught and presented by E. P. Killip, Associate Curator, Division of Plants, Smithsonian Institution, Washington, D. C. Received October 13, 1939.
A handsome cycad which sometimes becomes 5 feet high with about 20 pinnate leaves, some of them nearly 4 feet long, with spines along the margins. The pendent, cylindrical cone has numerous seeds; these are very showy, with a bright-red outer coat which is soft, fleshy, and ill-smelling. Native to Ecuador.

From Australia. Seeds presented by the University of Sydney, Sydney, New South Wales. Received October 12, 1939.

134313. AB. 5/18-1-1-2.
134314. AB. 7/9-2-4-1.
134315. AB. 21/10-1-1-2.
134316. AB. 21/6-1-2-1.
134317. AB. 21/2-1-2-2.
134318. AB. 21/1-1-1-2.
134319. AB. 25/7-1-3-3.
134320. AB. 26/5-3-3-1.
134321. AB. 26/4-1-1-4.
134322. AB. 26/1-5-1-3.
134323. AB. 26/1-8-1-2.
134324. AB. 27/2-2-3-2.
134325. AB. 27/2-2-1-4.
134326. AB. 27/2-1-1-3.
134327. AB. 28/1-1-1-5.
134328. AB. 29/2-1-1-2.
134329. AB. 29/1-2-1-5.
134330. AB. 30/2-1-1-1.
134331. AB. 31/7-2-1-2.

134350 to 134353.
From Turkey. Bulbs purchased from Hanna Boutros, Mersine. Received October 2, 1939.

An iris 6 inches to a foot high, native to southern Europe and northern Africa. It has 2 linear leaves and several flowers with erect, lanceolate, pale-lilac standards and spatulate lilac falls with a yellow spot.
For previous introduction see 77665.
134350 to 134353—Continued

134351. IRIS sp.

134352. IRIS BAKEEIANA Foster.

An Armenian iris with 3 or 4 subulate, hollow, glaucous-green leaves about 6 to 9 inches long at flowering time, finally about 1 foot long, and a single fragrant flower 3 inches long with a short peduncle buried at flowering. The outer segments have a long obovate-elliptical claw separated by a constriction from the small reflexed ovate blade. The blade, in the upper half and on its edges an intense pure violet, is marked in the lower part with small violet spots on a creamy-white ground and has an inconspicuous yellow streak not raised into a ridge, the latter prolonged down the claw which is marked by oblique, parallel, lilac streaks on a pale ground. The inner segments are shorter, erect, oblanceolate and plain lilac. Allied to Iris reticulata.

134353. HYACINTHUS ORIENTALIS L. Liliaceae.

Common hyacinth.

For previous introduction see 14790.

134354. PRUNUS ARMENIACA L. Amygdalaceae.

Apricot.

From California. Seeds presented by George R. Dorman, Fresno. Received October 3, 1939.

An apricot with an edible pit. Seeds originally from Iowa.

134355. LYCOPERSON ESCULENTUM Mill. Solanaceae.

Tomato.

From Ecuador. Seeds presented by G. M. Dyott, Hacienda Tumbo Grande, Guayaquil. Received October 4, 1939.

A wild tomato, collected August 27, 1939, at Km. 14, along the Guayaquil & Salinas Railway.

134356 to 134363.

From the Philippine Islands. Seeds presented by the Bureau of Plant Industry, Manila. Received October 10, 1939.

134356. CALAMUS sp. Phoenicaceae.

Palm. Sumulid.

134357. CALAMUS HAENKEANUS Mart.

Palm. Ditaan.

134358. DIOSPYROS DISCOLOR Willd. Diospyraceae.

Mabolo.

Camagon. A medium-sized tree with shining leaves 5 to 10 inches long, pubescent beneath. The velvety, dull-reddish, thin-skinned fruits, 3 inches long and nearly 4 inches in diameter, have firm, rather dry flesh of rather indefinite flavor, and 4 to 8 large seeds. Native to the Philippine Islands.

For previous introduction see 133621.

134359. LIVISTONA ROTUNDIFOLIA (Lam.) Mart. Phoenicaceae. Palm.

Anahau. An erect fan-leaved palm with a trunk ultimately about 50 feet high and 18 inches in diameter. The roundish leaves, with 60 to 80 segments, are 3 to 5 feet across.

For previous introduction see 108020.

134360. ONCOSPERMA HORRIDUM (Griffith) Scheff. Phoenicaceae. Palm.

Anibong. A very ornamental palm which becomes 80 feet high and grows, usually, in swampy forests. The trunk is covered with spines, and the few spreading leaves, 14 to 16 feet long, bear very narrow, acuminate spreading coriaceous leaflets 2 to 3 feet long. The purplish-black fruit is borne on pendulous spadix branches 2 to 3 feet long. Native to the East Indies.

For previous introduction see 51776.

134361. ORMASIA CALAVENSIS Azaola. Fabaceae.

Bahai. A large tropical tree with unequally pinnate leaves consisting of 7 or 9 ovate leaflets. The violet-colored flowers are followed by small woody pods containing 2 or 3 coral-pink seeds. Native to the Philippines.
134356 to 134363—Continued

For previous introduction see 101447.

*Palm.*  
Sarauag. A rather small Philippine palm with a slender, smooth trunk about 6 inches in diameter, graceful feathery leaves, and oval reddish fruits 2 inches in diameter.

For previous introduction see 104354.

*Dalinsi.* A medium-sized evergreen tree with a trunk about 2 feet thick, extremely burly, heavy, hard wood, and leathery ovate leaves usually 4 inches or more in length. Native to the Philippine Islands.

134364. *PRUNUS AVIUM* L. Amygdalaceae.  
*Mazzard.*  
From Rumania. Seeds presented by the Director, University Botanic Garden, Cernauti. Received October 5, 1939.  
Locally grown, subs spontaneous seeds.

134365 and 134366. *PRUNUS MAHALEB* L. Amygdalaceae.  
*Mahaleb cherry.*  
From the Netherlands. Seeds presented by the Director, Jardin Botanique de L'Université Technique, Delft. Received October 5, 1939.  
134365. Seeds from an old tree near the city of Assen, Netherlands.  

134367 and 134368. *PHASEOLUS VULGARIS* L. Fabaceae.  
*Common bean.*  

134368. *Golden Cluster.*

134369 to 134374. *ORYZA SATIVA* L. Poaceae.  
*Rice.*  
From Peru. Seeds presented by the Lambayeque Experiment Station, Lambayeque. Received October 12, 1939.

134369. *Charnock.*  
134370. *Dhairal.*  
134371. *Katakata.*  
134372. *Kumara.*  
134373. *P×S (8).*  
134374. *Surjamukhi.*

134375 to 134399.  
From England. Scions presented by Sir Arthur Hill, Director, Royal Botanic Gardens, Kew, Surrey. Received October 14, 1939.

*Barberry.*  
134375. *BERBERIS BERGMANNIAE* C. Schneid.  
A dense, bushy, evergreen barberry up to 6 feet high, with obovate to oval, spiny, sinuously serrate leaves up to 2 inches long, yellow flowers in crowded fascicles, followed by black oval fruits covered with blue-white bloom. Native to western China.

An evergreen bush up to 6 feet high, with leathery spiny leaves 2 inches long, and black berries. Native to western China.

For previous introduction see 70966.

A deciduous barberry 5 to 15 feet high, with entire, narrowly obovate, short leaves, numerous yellow to pale-orange flowers followed by black fruits covered with purple bloom. Allied to *Berberis montana.* Native to the Andes of Chile and Argentina.
134378. *Berberis comberi* Sprague and Sandwith.

An evergreen barberry up to 4 feet high, occasionally forming masses 12 feet across, with stout, holly-like, ovate-orbicular to oval leaves armed with several large spiny teeth, and usually solitary, fragrant orange-yellow flowers. Native to the Argentine Andes at about 3,000 feet altitude.


A shrub with spiny-dentate, oval-oblong leaves 2 cm. long, and yellow flowers followed by purple ellipsoid fruits; of unknown origin.

For previous introduction see 66683.


A barberry up to 5 feet high, with leathery, ovate to oblong-ovate, spiny, dentate leaves about 2 inches long and fascicles of small yellow flowers. Native to Yunnan Province, China at altitudes of 5,000 to 7,500 feet. Allied to *Berberis hookeri*.


A Chinese shrub with ovate leaves, paler beneath, and with flowers in short racemes.

For previous introduction see 49927.


An evergreen barberry up to 12 feet high, with suborbicular, spiny-toothed leaves, rounded or subcordate at the base, and dense subglobose clusters of flowers followed by bluish-black fruits. Native to Chile.

134383. *Berberis hypokerina* Airy-Shaw.

A small, bushy, evergreen barberry, forming spreading clumps of stems 2 to 3 feet high with oblong-elliptic, holly-like leaves which have a silvery-white undersurface. Closely related to *Berberis insignis*. Native to Upper Burma.


A handsome, erect bush with very few spines and with large, shining, holly-like evergreen leaves 3 to 7 inches long. The golden-yellow flowers are borne in clusters of about 15 and are followed by ovoid black berries. Native to the eastern Himalayas.

134385. *Berberis integerrima* Bunge.

A Siberian barberry which forms a shrub up to 6 feet high with grayish-green leaves, dense racemes of small flowers and black fruits.

For previous introduction see 58107.

134386. *Berberis kawakamii* Hayata.

An erect, much-branched barberry with whorled, leathery, obovate to lanceolate, spiny leaves up to 2 inches long, yellow flowers 10 to 15 in a fascicle, followed by black ovoid berries. Native to Taiwan at altitudes of 7,500 to 9,000 feet.

134387. *Berberis kumaonensis* C. Schneid.

134388. *Berberis lecomtei* C. Schneid.

A shrub up to 7 feet high, with slender, yellowish-brown spines ½ inch long, thin lanceolate leaves, and small yellow flowers. Native to southwestern China.

For previous introduction see 79003.


A barberry with very spiny, hard, glistening foliage, bearing a multitude of coral-red berries. The bushes grow from 3 to 5 feet high. Native to China.

For previous introduction see 40681.
134375 to 134399—Continued

134390. **Berberis leucocarpa** W. W. Smith.

A barberry 6 to 8 feet high with fascicled, obovate to elliptic, leathery leaves 2 to 3 inches long, racemes of about 20 flowers followed by white fruits. Native to Yunnan Province, China.

134391. **Berberis linearifolia** Phil.

A handsome evergreen barberry of loose, erect habit, 4 to 8 feet high, with entire, linear-oblong to elliptic leaves ¾ to 1¾ inches long, dark-green, shining above, and corymbs of 3 to 7 orange to crimson flowers followed by dark-blue-black fruits. Native to Chile.

134392. × **Berberis llogensis** Sandwith.

An evergreen shrub described as a hybrid of *Berberis darwinii* and *B. linearifolia*.

For previous introduction see 114676

134393. **Berberis mekongensis** W. W. Smith.

A deciduous barberry about 6 feet high, with almost sessile, whorled, obovate, spiny-dentate leaves about 1 inch long, and dense racemes of ovoid fruits. Allied to *Berberis brachypoda* and *B. dasystachya*. Native to Yunnan Province, China.

134394. **Berberis montana** C. Gay.

A spiny deciduous barberry up to 15 feet high with obovate to oblanceolate leaves ¾ to 1¾ inches long, in clusters of 2 to 7, and yellow or pale-orange flowers, followed by small, blackish fruits. Native to the Andes of Chile and Argentina.

134395. **Berberis ruscifolia** Pers.

A shrub with spiny leaves and yellow flowers; native to Argentina.

For previous introduction see 33926.

134396. **Berberis ussuriensis** (C. Schneid.) R. N. Parker.

134397. **Mahonia fortunei** (Lindl.) Fedde. Berberidaceae.

An evergreen shrub 5 to 6 feet high with erect, unbranching stems, leaves 6 to 8 inches long with usually 7 linear-lanceolate leaflets about 3 inches long, and densely crowded yellow flowers in racemes 2 to 3 inches long. Native to China.


An attractive shrub which grows to a good size with stiff, bright-green spiny leaves, yellow flowers and maroon-colored berries. Native to eastern Asia.

For previous introduction see 73148.


An evergreen shrub 3 to 6 feet high with pinnate leaves 6 to 12 inches long, usually with 5 or 7 lanceolate or narrow, oblong, shining green leaflets. A hybrid of *Mahonia aquifolium* and *fortunei*.

134400 and 134401. **Amygdalus persica** L. Amygdalaceae. *Peach*.


134400. Selection (D. R. 16- T 17) from P. I. 80089.

134401. Selection (D. R. 16- T 18) from P. I. 80089.


From the Union of South Africa. Seeds presented by H. J. Every, Assistant Director of Native Agriculture, Pietermaritzburg, Natal. Received October 12, 1399.

For previous introduction see 134235.
134403 and 134404. **CROTALARIA spp.** Fabaceae.  
From Brazil. Seeds presented by Professor F. C. Hoehne, Director of the State Department of Botany, São Paulo. Received October 19, 1939.

134403. **CROTALARIA BRACHYSTACHYS** Benth.  
An erect shrub about 4 feet high with ternate leaves. Native to Brazil.  
134404. **CROTALARIA PAULINA** Schrank.  
A tall shrub native to São Paulo, where it grows on poor soil in very dry localities.

134405 and 134406.  
From Palestine. Bulbs purchased from the American Colony Store, Jerusalem. Received October 21, 1939.

134405. **CROCUS GAHARDOTII** (Boiss. and Blanche) Maw. Iridaceae.  
A crocus with filiform, later circinnate-recurved, leaves appearing with the flowers. The perianth tube is slender, pale lilac at the outer face, white at the inner, twice as long as the limb which is about 1 inch in length. Native to the eastern Mediterranean region.  
134406. **TULIPA SHABONENSIS** Dinsm. Liliaceae.  
A stemless tulip about 2 inches across with usually 4 narrow-linear to lanceolate, wavy, circinnate leaves 4 to 6 inches long, overtopping the solitary crimson campanulate flower. Similar to *Tulipa montana*. Native to sandy localities in the coastal plain of Palestine.

Bermuda grass.  
From the Union of South Africa. Roots presented by John Phillips, Director, Botanical Research Station, Milner Park, Johannesburg. Received October 21, 1939.  

Royal Cape. A relatively frost-hardy strain which will endure 15° F. It is a rapid spreader and presents an excellent non-nap surface for golf greens.

134408. **CALAMUS SIPHONOSPATUS** Mart. Phoenicaceae.  
Palm.  
From the Philippine Islands. Seeds presented by the Director, Bureau of Forestry, Manila. Received November 7, 1939.

134409 to 134412. **ORYZA SATIVA** L. Poaceae.  
Rice.  
From India. Seeds presented by B. B. Dane, Officer in Charge, Rice Research Scheme, Central Provinces, Raipur. Received November 8, 1939.

134409. **Dilpasand**, No. 1.  
134411. **Sultugurmatia**, No. 3.  
134410. **Nungi** (E. B. No. 17), No. 2.  
134412. **Surmatia**, No. 4.

134413 and 134414. **HIBISCUS**. Malvaceae.  

134413. **Toreador**. A seedling grown at the Garden from P. I. 55064. The plant is of very vigorous, upright habit and fairly easy to propagate from cuttings. The flower is handsome, 6 inches in diameter, pale orange yellow with a deeper than carmine eye.  
134414. **Leslie**. The flower is salver-shaped, 6 inches in diameter, and the full, well-rounded petals are venetian pink faintly flushed along the margin with chamois, fading into white at the base. The stigmas are scarlet.

134415. **SEDUM sp.** Crassulaceae.  
From Mexico. Plants collected by Cornelius H. Muller, Bureau of Plant Industry, United States Department of Agriculture. Received November 7, 1939.  
Collected in Chihuahua, Mexico, October 1939.
134416. ARENGA WIGHTII Griff. Phoenicaceae. Palm.
A monoecious palm forming dense clumps with gray trunks 3 to 30 feet high and 1 foot in diameter; the leaves, 12 to 28 feet long, dark green above and white beneath, are composed of linear-ensiform, auricled leaflets 1 to 3½ feet long; the pendulous spadices are nearly 4 feet long and the globose fruits are 1 inch in diameter. Native to the Deccan Peninsula at altitudes of 500 to 3,000 feet.

134417 and 134418. LYCopersicon HIRSUTUM Humb. and Bonpl. Solanaceae. Tomato.
From Ecuador. Seeds presented by G. M. Dyott, through A. T. Nester, American Consul, Guayaquil. Received November 10, 1939.
Wild tomato seed from the Hacienda Tambo Grande, Km. 38, Ferrocarril a la Costa, Guayaquil, October 1939.
134417. Fruit greenish yellow with no purple tint, but soft and apparently ripe.
134418. Fruit green with purple lines and flush.

134419. SACCHARUM. Poaceae. Sugarcane.

134420 to 134438.

134420 to 134426. AMYGDALUS PERSICA L. Amygdalaceae. Peach.
134420. Delicious.
134421. Golden Beauty.
134422. Nahuta.
134423. Paragon.

134427 and 134428. AMYGDALUS PERSICA VARI. NECTARINA Ait. Nectarine.

134427. New Boy.
134428. Twyford Surprise.

134429. Albany Beauty.
134430. Kidd's Orange Red.

134433. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

134433. Roxburgh Red.

134434 to 134437. PRUNUS spp. Plum.
134434 and 134435. PRUNUS DOMESTICA L.
134434. Golden Prune.
134435. Jenkins Seedling Prune.

134436. PRUNUS. Christmas Red Plum.

134437. PRUNUS SALICINA Lindl. Satsuma Hybrid.

Champion Seedless.

877549—50—2
134439 and 134440. **Prunus** spp. Amygdalaceae.  
From the Union of Soviet Socialist Republics. Seeds presented by the Botanical Institute, Ashkabad. Received November 8, 1939.

134439. **Prunus avium** L.  
Mazzard.  
134440. **Prunus mahaleb** L.  
Mahaleb cherry.  

134441. **Lilium** sp. Liliaceae.  
From Kentucky. Seeds presented by Prof. Frank T. McFarland, University of Kentucky, Lexington. Received November 16, 1939.

A wild lily collected on Black Mountain, Ky., at about 4,000 feet altitude, October 1939. The stalks were from 5 to 7 feet tall with from 8 to 15 seed pods on each stalk; the bulbs are 2 to 3 inches in diameter. Flowers not seen.

134442. **Triticum aestivum** L. Poaceae.  
Common wheat.  
From India. Seeds presented by Dr. Maryan Singh, Punjab. Received November 16, 1939.

134443 to 134455.  
From the Netherlands. Plants purchased from Felix & Dykhus, Boskoop. Received November 20, 1939.

134443 to 134445. **Aster** spp. Asteraceae.

134443 and 134444. × **Aster frikartii** Silva Tarouca and C. Schneid.

Said to be a globular plant 2 to 3 feet high with very large sky-blue flowers having orange-yellow centers. It flowers from August to November.  
For previous introduction see 97988.

134445. **Aster thomsonii** C. B. Clarke.

A laxly branched perennial aster with slender, erect, flexuous hairy stems up to 3 feet high; broad-ovate, coarsely toothed leaves 2 to 4 inches long, almost clasping at the base; and solitary flower heads about 2 inches across with numerous reddish-purple rays. Native to the Himalayan region at altitudes of 7,000 to 10,000 feet.

134446 and 134447. × **Deutzia carnea** (Lemoine) Rehder. Hydrangeaceae.

A hybrid (*Deutzia rosea* var. *grandiflora* × *sieboldiana*) with ovate to oblong-ovate leaves up to 2 inches long and loose upright panicles of flowers, pink outside and nearly 1 inch across.

134448 and 134449. **Deutzia scabra** Thumb.  
Fuzzy deutzia.  
For previous introduction see 132367.

134450. **Deutzia scabra** var. *candissima* Rehder.  
For previous introduction see 132313.

134451. × **Deutzia lemonei** Lemoine.  
An upright shrub up to 8 feet high with lanceolate leaves 1½ to 4 inches long, and pure-white flowers ½ inch across in erect panicles or corymbbs up to 3 inches long.

134452. **Deutzia scabra** Thumb.  
Var. Crenata.  
Fuzzy deutzia.

134453 to 134455. × **Philadelphus lemonei** Lemoine. Hydrangeaceae.  
Lemoine mockorange.

134455. Var. *Nuée.*  
134454. Var. *Mer de Glace.*

134456. **Solanum tuberosum** L. Solanaceae.  
Potato.  
From the Philippine Islands. Tubers presented by Dr. Hilarion S. Silayan, Director of Plant Industry, Bureau of Plant Industry, Manila. Received November 21, 1939.

Baguio Selection No. 1.
134457 to 134466.

From the Netherlands. Bulbs purchased from C. G. van Tubergen, Haarlem. Received November 21, 1939.

134457. **Bravoia geminiiflora** Lex. Amaryllidaceae.

A Mexican amaryllid with slender stems 1 to 2 feet high, erect, smooth, linear leaves, mostly basal, and paired, orange-colored or reddish flowers on a slender, terminal raceme.

134458 to 134460. **Haemanthus** spp. Amaryllidaceae.

134458. *× Haemanthus andromeda* Laplace.

A very handsome hybrid (*Haemanthus katherinae* × *magnificus*) with light-green leaves 18 inches long by 4 inches wide and a large rounded umbel of small reddish-orange flowers.

134459. **Haemanthus natalensis** Pappe.

A haemanthus with 8 or 9 membranous, bright-green leaves more than 1 foot long, the lower ones spotted on the back with red brown. The small flowers, in a very dense globular mass 3 to 4 inches in diameter surrounded by several large deep-purple bracts, are obscured by the long scarlet filaments and bright-yellow anthers. Native to South Africa.

For previous introduction see 130722.

134460. **Haemanthus**.

King Albert.

134461. **Hippeastrum**. Amaryllidaceae.

Var. Ackermannii. A hybrid with characters that suggest *Hippeastrum auticum*.

134462. **Hippeastrum procenum** (Duchartre) Lem.

A Brazilian hippeastrum with numerous falcate, sword-shaped leaves 2 to 3 feet long and 4 to 12 lilac flowers in an umbel.

134463. **Hymenocallis**. Amaryllidaceae.

Var. Daphne.

134464. **Littonia modesta** Hook. f. Melanthiaceae.

Keiti. A tuberous-rooted climbing vine, resembling *Gloriosa*.

For previous introduction see 133411.

134465. **Sandersonia aurantiaca** Hook. Melanthiaceae.

A South African tuberous plant with simple, erect, terete, leafy stems up to 1½ feet high, clasping, lanceolate, narrow acuminate, subdistichous leaves 2 to 4 inches long and pendulous, showy, orange, globose-campanulate flowers about 1 inch long and solitary in the leaf axils.

134466. **Ferraria undulata** L. Iridaceae.

A South African plant about 1 foot high that grows like the blackberry-lily, with basal ensiform leaves more than 1 foot long. The starry, dull, olive-green, velvety, blotched-purple flowers last but a day.

134467 to 134475. **Rubus** spp. Rosaceae.

From South America. Seeds presented by Dr. T. H. Goodspeed, University of California Botanical Garden Expedition to the Andes. Received November 17, 1939.

134467. **Rubus** sp.

No. 10033. U. C. B. G. 39/1063. December 5, 1938. From Peru, Departamento Cajamarca, Province Huaihayoc, southeast of Chota about 10 km. on Bambamarca trail at 2,700 m. altitude. A shrub averaging 2.5 m.; canes medium spiny, flowers usually rose when young, later white; fruit said to be eaten but not prized.
134467 to 134475—Continued

134468. **RUBUS** sp.

No. 9915. U. C. B. G. 39/1052. November 9, 1938. From Peru, Departamento Huancayo, Carpish, at 2,850 m. altitude at the edge of forest in clay subsoil. A perennial herb over 1 m. high; flowers dark-rose; sepals with dark-purple hairs on outside; fruits dull black, not of good flavor.

134469. **RUBUS** sp.

No. 10649. U. C. B. G. 39/2010. February 15, 1939. From Peru, Departamento Apurimac, Province Abancay, Upper Río Marino Valley, along stream at 2,600 m. altitude. Shrub 3 m. high; flowers white with green stamens; fruit black, of average sweetness. The old stems are very dark brown, hirsute, unarmed.

134470. **RUBUS** sp.

No. 10622. U. C. B. G. 39/2011. February 12, 1939. From Peru, Departamento Apurimac, Province Abancay, Ampuy, in forest, near stream, moist humus in gravelly soil, at 3,200 m. altitude. A shrub up to 2.5 m. high; fruit not ripe, red turning black; flowers not seen; stems beset, even when very old, with capitate hairs which are not glutinous.

134471. **RUBUS** sp.

No. 10065. U. C. B. G. 39/2012. March 18, 1939. From Peru, Departamento Junín, Province Tarma, between Paica and Carpiapata, in shrubland, red clay soil, among boulders at 2,900 m. altitude. Shrub about 2 m. high; fruit of average sweetness and flavor; flowers not seen.

134472. **RUBUS** sp.

No. 10278. U. C. B. G. 39/2086. January 8, 1939. From Peru, Departamento Huancavelica, Salcabamba, in gravelly shrubland at 3,250 m. altitude. A shrub with weak stems 2 m. long; stamens with anthers and corolla peache-blossom pink; styles red; fruit 4 to 20 druplets on a single fruit, black when ripe, sour, not agreeable; seeds large, elliptical, coarsely reticulate. Even old stems remain pubescent.

134473. **RUBUS** sp.

No. 10289. U. C. B. G. 39/2087. January 8, 1939. From Peru, Departamento Huancayo, Quebrada, south of Salcabamba, in open shrub wood in loam at 3,300 m. altitude. A shrub up to 1½ m. high; flowers with rose-colored petals shorter than the calyx; fruit over 1 inch long, conical, like a large strawberry, bright red, raspberry flavor but not sweet.

134474. **RUBUS** sp.

No. 11495. U. C. B. G. 39/2135. April 21, 1939. From Peru, Departamento Lima, Province Huarochiri, Santa Eulalia valley, in shrubland at 1,200 m. altitude. Old canes unarmed, twigs with abundant bristles; flowers white, relatively small; ripe fruits have agreeable, somewhat sweet taste.

134475. **RUBUS** sp.

No. 25377. U. C. B. G. 39/2418. April 15, 1939. From Bolivia, Departamento La Paz, Province Yungas, near Unduavi; in underbrush along roadside in shade of large trees on slope at 3,000 m. altitude. Shrub, bush or vine 2 to 2.5 m. high with many sharp hooked thorns; fruit dark red to black.

134476 to 134481. **VACCINIUM** spp. Vacciniaceae.

From England. Plants, cuttings, and seeds presented by the Director, Royal Horticultural Society, Wisley, Ripley, Surrey. Received November 21, 1939.

Unless otherwise mentioned, this material was received as plants.

134476. **VACCINIUM BRACTEATUM** Thunb.

An evergreen shrub 3 to 5 feet high with remotely serrulate elliptic leaves 1 to 3 inches long and leafy bracted racemes of reddish flowers followed by red fruits which are said to be edible. Native to China and Japan.

For previous introduction see 85740.
134476 to 134481—Continued

134477. **Vaccinium glauco-album** Hook. f.

A shrub, native to the Sikkim Himalayas between 9,000 and 10,000 feet altitude. The leathery, oblong, ovate leaves, 2 to 3 inches long, are mucronate-serrate and are white beneath. The small, pink-tinged, white flowers, in racemes 3 inches long, are subtended by large white bracts which persist until the fruits are ripe.

For previous introduction see 102784.

134478. **Vaccinium floeibundum** H. B. K.

A slender shrub, native to Ecuador between 10,000 and 12,000 feet. It sometimes becomes 6 feet high, with very small elliptic to ovate-acute finely serrate leaves. The edible fruit is roundish, about ¼ inch in diameter, glaucous blue, juicy, subacid, and contains several very small seeds. It greatly resembles some of the blueberries of the United States. Received as *Vaccinium mortinia* which is now referred to the above.

For previous introduction see 54281.

134479. **Vaccinium moupinense** Franch.

A shrub 2 to 4 feet high with small obovate to oblong-obovate glossy, green leaves and racemes of rose-pink flowers followed by small deep purple or black fruits. Related to *Vaccinium nunnularia*. Native to western China.

134480 and 134481. **Vaccinium pallifolium** Smith.

A shrub or small tree with ovate to oval leaves 1 to 2¼ inches long, dark green above, and racemes of dull-yellow flowers tinged with purple, followed by blueberries ⅞ or ⅜ inch across. Native to Madeira.

134480. Received as plants and cuttings.

134481. Received as seeds.


From Australia. Seeds presented by H. Wenholz, Director of Plant Breeding, New South Wales Department of Agriculture, Sydney, New South Wales. Received November 21, 1939.

134482. Acme × Waratah S. 201.


134484. Aleppo 11 × Haurani. II 38–79.

134485. Aleppo 8 × Heite. II 38–82. 0564.

134486. Aleppo 8 × Palestine 2. II 38–81.

134487. Aziziah × Heite. II 38–77. 0549.

134488. Aziziah × Haurani No. 2. II 38–78. 0552.

134489. Bobin Gaya Bobin S. 203.

134490. Eureka S. 216.

134491. Federation × Webster S. 205.

134492. Giza 4 × Heite. II 38–74. 0540.

134493. Giza 4 × Palestine 2. II 38–73. $537.


134496. Heite × India 808. II 38–75.

134497. Heite × Pradas II 38–76.

134498. Hope × Curravoa × Dundee S. 207.

134499. Hope × King S. 296.

134500. Hofed I. S. 208.

134482 to 134518—Continued

134502. Marquille × Waratah S. 211.
134503. Miniflor S. 214.
134504. Steinwedel × T. timopheevi S. 990.
134506. Steinwedel × T. timopheevi S. 1003.
134507. Thatcher S. 71.
134508. Female No. 73.
134509. Female No. 74.
134510. Female No. 75.
134511. Female No. 76.
134512. Female No. 77.
134513. Female No. 78.
134514. Female No. 80.
134515. Female No. 81.
134516. Female No. 82.
134517. Female No. 83.
134518. Female No. 84.
134519 and 134520. PENSETUM CLANDESTINUM Hochst. Poaceae.

Kikuyu grass.

From England. Seeds presented by the Director, Royal Botanic Gardens, Kew, Surrey. Received November 22, 1939.

A rapid-growing perennial stoloniferous grass, native to South Africa where it is considered valuable drought-resistant summer pasture.

134519. Kabete Eco-Type. 134520. Ronquai Eco-Type.

For previous introduction see 75920.

134521 to 134559.

From Mexico and Texas. Seeds collected by Cornelius H. Muller, Bureau of Plant Industry, United States Department of Agriculture. Received November 22, 1939.

134521. BUMELIA sp. Sapotaceae.

No. 3716. From La Morita, 60 miles west of Las Grandes, Chihuahua, Mexico, October 11, 1939. A shrub up to 30 feet high with small fruits % inch in diameter, dark blue to black. Found on rocky stream banks.

134522. CARICA PAPAYA L. Papayaceae. Papaya.

No. 2634. August 13, 1939. From the market in Monterrey, Nuevo León, Mexico, but said to have been grown in Tampico, Mexico. Fruit about 12 inches long; flesh yellow and about 1¼ inches thick.


No. 3626. A close relative of the kapok tree, Ceiba pentandra. A large or medium-sized tree with a spiny trunk, compound leaves, and hard oblong fruits about 7 inches long which contain a whitish down used for stuffing pillows, life preservers, and for making candlewicks. Native to western and southern Mexico.

For previous introduction see 97537.

134524. CLITORIA sp. Fabaceae.

No. 2792. August 17, 1939. From La Trinidad, Nuevo León, Mexico. An erect or prostrate vine from a perennial root-stock; the light-blue flowers are in clusters.
134521 to 134559—Continued

134525 to 134530. Croton spp. Euphorbiaceae.

134525 and 134526. Croton fruticosus Engelm.

134525. No. 2663. August 11, 1939. From Nuevo León, Mexico. Common on open and shady situations on the lower and middle slopes.

134526. No. 3157. September 6, 1939. From Sierra de la Madera, Cañon del Pajarito, Coahuila, Mexico. Found along arroyo banks. A small aromatic, densely-tomentose shrub 3 to 5 feet high with long-ovate, ovate or deltoid-ovate leaves 1 to 4 inches long. Native to northern Mexico and the adjacent United States.

134527. Croton neomexicanus Muell. Arg.

No. 3749. From desert flats west of the Chisos Mountains, Brewster County, Tex., October 19, 1939. A shrubby croton up to 4 or 5 feet high with lanceolate to elliptic leaves ½ to 2 inches long. The root bark is said to be used as a purgative. Native to northern Mexico and adjacent United States.

134528. Croton sp.

No. 2601. From Melon, Tex., August 8, 1939. A large annual or biennial woody herb; principal pigeon food for south and central Texas.

134529. Croton sp.

No. 3038. October 5, 1939. From El Rio Bonito, Sonora, Mexico. A shrub up to 3 feet high with white flower clusters.

134530. Croton sp.


No. 3102. August 31, 1939. From Puerta de San Lazaro, Coahuila, Mexico. A large shrub or small tree, with obovate leaves, which fruits abundantly. The fruit is of pleasant flavor but only moderately fleshy.

For previous introduction see 90875.

134532. Ehretia anacua (Teran and Berland.) Johnst. Boraginaceae.

No. 3750. June 1939. From Cuero, De Witt County, Tex. Anaqua; mansanillo. A shrub or tree up to 50 feet high, native to northern Mexico and southern Texas. The thick, oblong, scabrous leaves are 1 to 4 inches long. The small, white, fragrant flowers are borne profusely and are followed by sweet, edible, yellow fruits about ¼ inch in diameter. The wood is used for tool handles and wheel spokes, and in Texas the tree is used as an ornamental.

For previous introduction see 103406.

134533. Eryngium sp. Apiaceae.

No. 3365. September 20, 1939. From hills about Los Tres Ojitos, 12 miles east of San Antonio, Chihuahua, Mexico. An herb with blue inflorescences.

134534. Forestiera neomexicana A. Gray. Oleaceae.


No. 3147. September 3, 1939. From the Valle de Bocatoche, Coahuila, Mexico. An herb or shrub 1 to 2 feet high with rounded-cordate, sinuate leaves and crimson flowers over 1 inch long. Native to northern Mexico and Texas.

134536. Hibiscus denudatus Benth.

No. 3336. From 31 miles southeast of Jimenez, Chihuahua, Mexico. A tufted shrubby perennial 1 to 2 feet high with thick ovate, serrulate leaves and lavender-purple flowers. Native to the southwestern United States and Mexico.
134521 to 134559—Continued

134537. Lonicera albiflora var. dumosa (A. Gray) Rehder. Caprifoliaceae.

No. 3307. September 14, 1939. From the Cañon de San Salvador, Sierra Mojada, Mexico. A vine to 10 feet long found sprawling over shrubs, in moist shaded arroyos of the high canyons.


No. 2874. August 20, 1939. On the trail from La Trinidad to Sierra de la Cebolla, Nuevo León, Mexico. A handsome herbaceous perennial with simple stems about 3 feet high, thin lanceolate leaves 3 to 4 inches long and terminal clusters of 12 to 15 flowers. The vermilion corollas are less than 2 inches long, with a slender long-exserted tube tapering gradually to the curved throat. Related to Monarda didyma. Native to Mexico.


Collected October 5 and 6, 1939, about La Nopalera, El Río Bonito, Sonora, Mexico.

134539. No. 3641. The most commonly planted type. The plants become 4 feet tall.

134540. No. 3642. A long-leaved form of No. 3641 [P.I. 134539].

134541. No. 3671. Tabaco aromático.


No. 2894. August 21, 1939. From the upper west slopes of Sierra de la Cebolla, Nuevo León, Mexico. A plant, with purple flowers, which seeds abundantly.


No. 2692. August 13, 1939. From the market in Monterrey, Nuevo León, Mexico.

For previous introduction see 91541.


No. 2693. August 13, 1939. From the market at Monterrey, Nuevo León, Mexico. Fruit green, about 2 inches in diameter.

134545. Rhus microphylla Engelm. Anacardiaceae.

No. 3008. August 29, 1939. From the Larrea-Flourensia Desert, Coahuila, Mexico. A densely branched shrub up to 8 feet high with small oblong to oval leaflets and red fruit. Native to northern Mexico and the adjacent United States.

134546. Rhus triflora Nutt. Anacardiaceae.

No. 3489. September 25, 1939. From the Cañon Huahuatan, 10 miles southeast of Madera, Chihuahua, Mexico. An upright shrub 2 to 6 feet high. The leaves are composed of 3 crenately lobed leaflets and the inconspicuous yellow flowers are followed by short panicles of small bright-red fruits. Native to Canada and the northern United States.

For previous introduction see 77596.

134547 to 134550. Salvia spp. Menthaceae.

134547. Salvia regla Cav.

No. 2883. August 20, 1939. From the upper slopes of the Sierra de la Cebolla, Nuevo León, Mexico. A shrub up to 6 feet high with obtuse, coarsely crenate, green leaves and scarlet flowers about 2 inches long in axils or in short racemes. Native to northern Mexico.

134548. Salvia greggii A. Gray.

No. 2600. From San Antonio, Texas. A shrub up to 3 feet high with oblong entire leaves ½ inch long and red or purplish-red, autumn flowers 1 inch long in racemes up to 4 inches long. Native to Mexico.
134521 to 134559—Continued

134549. **Salvia texana** (Scheel) Torr.

No. 2622. August 10, 1939. Collected 7 miles south of Sabinas Hidalgo, Nuevo León, Mexico. A perennial herb up to 1½ feet high with sessile, lanceolate leaves and blue flowers about 1 inch long. Native to Texas.

134550. **Salvia grahami** Benth.

No. 2889. August 21, 1939. From the upper west slopes of the Sierra de la Cebolla, Nuevo León, Mexico. A Mexican shrub up to 3 feet high with oval, nearly entire leaves 1 inch long and racemes of showy red flowers.

134551 and 134552. **Scutellaria suffrutescens** S. Wats. Menthaceae.

A much-branched woody scutellaria about 6 inches high with entire, obovate leaves less than ½ inch long and solitary axillary flowers having narrow-tubular corollas ¾ inch long, greenish yellow tinged with red. Native to northern Mexico.

134551. No. 2667. August 11, 1939. From the Cañon Diente, near Monterrey, Nuevo León, Mexico.

134552. No. 2811. August 18, 1939. From La Trinidad, Nuevo León, Mexico.

134553. **Smilax** sp. Smilacaceae.

No. 2967. August 24, 1939. From the trail between Portrero, Redondo, and Las Aguntas, Nuevo León, Mexico. A vine up to 30 feet long, common in moist arroyos.

134554. **Saracha procumbens** (Cav.) Ruiz and Pav. Solanaceae.

No. 3385. September 20, 1939. From La Junta, Chihuahua, Mexico. A weed found growing in corn fields. The flower clusters are ivory followed by dark-blue to black edible fruits.


134555. **Vitis** sp.

No. 2650. August 11, 1939. From the Cañon Diente, near Monterrey, Nuevo León, Mexico. A small vine climbing over bushes, found in oak and hickory forest.

134556. **Vitis** sp.

No. 3154. September 6, 1939. From the Cañon del Pajarito, Sierra de la Madera, Coahuila, Mexico. A vine 15 feet long, sprawling over shrubs in dry arroyos becoming larger in more moist habitats.

134557. **Vitis** sp.

No. 3486. September 24, 1939. From the Cañon Huahuatan, 10 miles southeast of Madera, Chihuahua, Mexico. A bushy or trailing vine up to 10 feet in height; common along arroyos and open pine and oak forest.

134558. **Zinnia multiflora** L. Asteraceae.

No. 3350-A. September 20, 1939. From the hills about Los Tres Ojitos, 20 miles west of Carritas, Chihuahua, Mexico. Flowers red, ray florets persistent and fading but little with age; shade tolerant.

For previous introduction see 123843.

134559. **Pistacia mexicana** H. B. K. Anacardiaceae.

No. 2970. From the trail between Portrero Redondo and Las Ajuntas, Nuevo León, Mexico. A shrub 15 feet high with purplish-red fruit.

For previous introduction see 127855.

134560. **Phoenix spinosa** Schum. Phoenicaceae.

From Africa. Seeds collected by Harold A. Royer, of Ames, Iowa. Received November 20, 1939.

Wild dates collected on a plateau at 4,000 feet altitude, near Jos, northern Nigeria.

For previous introduction see 118396.

From the Philippine Islands. Seeds presented by H. S. Silayan, Director of Plant Industry, Bureau of Plant Industry, Manila. Received November 22, 1939.

A semihardy Philippine lily with a slender green stem, sometimes purple dotted, 1 or 2 feet high, 30 to 40 narrow horizontal, recurved leaves 3 to 5 inches long, and delicately fragrant, waxy, pure-white flowers 8 inches long, tinged with green near the base, with yellow anthers. This species is best suited for pot culture in cold regions.

For previous introduction see 58964.

134562 to 134574. **Solanum tuberosum** L. Solanaceae. Potato.

From the Netherlands. Tubers presented by the Adjutant Secretary, General Netherlands Inspection Service, Wageningen. Received December 1, 1939.

134562. Eigenheirner.
134563. Erdgold.
134564. Gladstone.
134565. Gloria.
134566. Hellenia.
134567. Iduna.
134568. Matador.

134575 to 134595. **Malus** spp. Malaceae.

From Canada. Scions presented by W. N. Kerr, Assistant in Horticulture, Department of Agriculture, Dominion Experimental Farms, Morden, Manitoba. Received December 1, 1939.

134575 to 134577. **Malus**.
134575. Anaros.
134576. Beauty.
134577. Bedford.

134578 and 134579. **Malus sylvestris** Mill. Apple.
134578. Blushed Calville.
134579. Breakey.

134580 and 134581. **Malus**.
134580. Florence.
134581. Garnet.

134582 to 134585. **Malus sylvestris** Mill. Apple.
134582. Jethro.
134583. Manitoba.
134584. Manitoba Spy.
134585. Mantet.

134586. **Malus**. Mecca.

134587 to 134590. **Malus sylvestris** Mill. Apple.
134587. Mount.
134588. Pine Grove Red.
134589. Watts.
134590. Waukon.

134591 to 134595. **Malus**.
134591. Hybrid Crab—**Hoyer No. 12**.
134592. Hybrid Crab—**Rescue**.
134593. Hybrid Crab—**Rosilda**.
134594. Hybrid Crab—**Toba**.
134595. Hybrid Crab—**Trail**.
134596. **TRITICUM DURUM** var. **FERE-ALEXANDRINUM** Jacub. and Nikol.
Poaceae.
Wheat.
Originally from Syria. A smooth-awned wheat.
For previous introduction see 113805.

134597. **PHOENIX SYLVESTRIS** (L.) Roxb. Phoeniceae.
Indian date palm.
From Hawaii. Seeds presented by L. W. Bryan, Department of Forestry, Hilo, through the Fairchild Garden, Coconut Grove, Fla. Received in November 1939. Numbered in December 1939.
For previous introduction see 124801.

134598. **OLEA** sp. Oleaceae.
Olive.
From India. Seeds presented by Captain A. E. G. Davy, Assistant Political Agent, Fort Sandeman, Zhob, Baluchistan. Received November 29, 1939.
Wild olives which grow under very dry conditions and great range of annual temperature.

134599 and 134600.
From Germany. Seeds presented by Dr. Willmar Schwabe, Director of the Botanical Garden, Leipzig. Received November 29, 1939.

134599. **PRUNUS AVIUM** L. Amygdalaceae.
Sweet cherry.
134600. **PRUNUS MAHALEB** L.
Mahaleb cherry.

134601 and 134602. **Avena sativa** L. Poaceae.
Oats.

134601. No. 289-5-A-1-C-2-A.
134602. No. 289-5-A-1-C-2-C.

134603. **Diospyros** sp. Diospyraceae.

134604 and 134605.
From England. Seeds purchased from Gartons, Ltd., Warrington. Received December 12, 1939.

134604. **Avena sativa** L. Poaceae.
Royal Scot, a new white oat.
134605. **Secale cereale** L. Poaceae.
Re-Selected Giant Large-Grained Winter rye.

134606. **Pyrus communis** L. Malaceae.
Common pear.
From Iowa. Scions presented by H. L. Lantz, Agricultural Experiment Station, Ames. Received December 13, 1939.
Tioma pear. Originally from Manchuria.

134607 to 134666.
From Afghanistan. Seeds collected by W. V. Harlan, collaborator, Bureau of Plant Industry, United States Department of Agriculture. Received November 25, 1939.

134607. **Aegilops** sp. Poaceae.
September 2, 1939. Collected south of Khanabad at 4,000 feet altitude.
134607 to 134666—Continued

134608. AEGILOPS sp.
   September 10, 1939. From dry hills south of Tashkurghan at 3,000 feet altitude. Mixed sample.

134609. AGROPYRON sp. Poaceae.
   September 10, 1939. From dry hills south of Tashkurghan at 3,000 feet altitude.

134610. AGROPYRON sp.
   September 2, 1939. From a dry gulch south of Khanabad at 4,000 feet altitude.

134611. ALLIUM sp. Liliaceae.
   July 27, 1939. From a rocky canyon above Sari Chasma at 8,000 feet altitude.

134612. ALOPECURUS sp. Poaceae.
   July 25, 1939. From Sari Chasma in a wet field at 7,000 feet altitude.

134613. AMYGDALUS COMMUNIS L. Amygdalaceae. Almond.

134614. ANDROPOGON sp. Poaceae.
   From Sari Chasma.

134615. ASTRAGALUS sp. Fabaceae.
   July 27, 1939. From the hills above Sari Chasma at 8,500 feet altitude.

134616. AVENA sp. Poaceae.
   From an irrigated field for hay at Sari Chasma at 7,000 feet altitude.

134617. BELLEVALLIA sp. Liliaceae.


134618. BROMUS sp.
   September 2, 1939. From a dry gulch south of Khanabad at 4,000 feet altitude.

134619. BROMUS sp.
   From Bandi Amir, in dry-land barley at 9,000 feet altitude.

134620. BROMUS sp.
   July 27, 1939. From hills above Sari Chasma at 9,000 feet altitude.

134621. BROMUS sp.
   September 5, 1939. From dry hills north of Maimana at over 1,000 feet altitude.


134622. September 9, 1939. From Mazar-i-Sherib at 1,000 feet altitude. A melon with pink to yellow flesh.

134623. September 9, 1939. From Tashkurghan at 1,000 feet altitude. A melon with red flesh.

134624. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.
   September 7, 1939. From Sari-pul at 2,000 feet altitude. A long, spotted melon.

   July 27, 1939. From the hills above Sari Chasma between 8,000 and 9,000 feet altitude.

134625. ELYMUS sp.

134626. ELYMUS sp.
134607 to 134666—Continued

134627. **Festuca sp.** Poaceae.
   July 25, 1939. From Sari Chasma at 7,000 feet altitude, in a medium wet situation.

134628. **Festuca sp.**
   July 27, 1939. From a dry hillside, between 7,000 and 10,000 feet altitude.

134629. **Gossypium.** Malvaceae.
   September 10, 1939. From Tashkurghan at 1,000 feet altitude. Cotton.

134630 to 134638. **Hordeum spp.** Poaceae. Barley.
   134630. **Hordeum bulbosum L.**
   Wild barley from south of Khanabad. September 1939.
   134631. **Hordeum distichon L.**
   From south of Khanabad, September 1939, at 4,000 feet altitude. Two-rowed wild barley.
   134632. **Hordeum vulgare L.**
   From the Nil Pass (alkali flat) at 10,000 feet altitude.
   134633. **Hordeum vulgare L.**
   From Sari Chasma at 8,000 feet altitude. Six-rowed barley, blue, very short. Collected in July 1939.
   134634. **Hordeum vulgare L.**
   July 25, 1939. From Sari Chasma at 7,000 feet altitude. A mixed sample of barley (threshed).
   134635. **Hordeum vulgare L.**
   From the bazar at Acksheh at 1,000 feet altitude. Threshed barley.
   134636. **Hordeum vulgare L.**
   From Bandi-amir at 9,000 feet altitude.
   134637. **Hordeum murinum L.**
   September 5, 1939. Wild barley from dry hills north of Maimana, at 1,000 feet altitude.
   134638. **Hordeum gussoneanum Parl.**
   September 2, 1939. Grass collected south of Khanabad.

134639. **Koeleria sp.** Poaceae. Grass.
   September 5, 1939. From dry hills north of Maimana at over 1,000 feet altitude.

134640 and 134641. **Linum usitatissimum L.** Linaceae. Flax.
   134640. September 5, 1939. From north of Maimana at 1,000 feet altitude. Dry-land flax.
   134641. September 1939. From south of Tashkurghan at 2,000 feet altitude.

134642. **Melica sp.** Poaceae. Grass.
   July 25, 1939. Collected along a stone wall at the edge of a field in Sari Chasma at over 8,000 feet altitude.

134643. **Oryzopsis sp.** Poaceae. Grass.
   July 27, 1939. From hills above Sari Chasma at 8,000 feet altitude.

134644. **Phleum sp.** Poaceae. Grass.
   September 10, 1939. From dry hills south of Tashkurghan at 3,000 feet altitude.

134645. **Phleum sp.** Poaceae. Grass.
   September 5, 1939. From dry hills north of Maimana at over 1,000 feet altitude.
134646. **Pisum sativum** L. Fabaceae. Pea.

134647 to 134649. **Poa** spp. Poaceae. Grass.

134647 and 134648. **Poa bulbosa** L.

134647. September 3, 1939. From near Kunduz at over 2,000 feet altitude. A short-grass plant.

134648. September 2, 1939. A short grass from a dry hillside at Pul-i-humbri between 4,000 and 5,000 feet altitude.

134649. **Poa** sp. July 25, 1939. From a wet field near Sari Chasma at 7,000 feet altitude.


July 27, 1939. Wild rhubarb from the hills above Sari Chasma between 8,000 and 9,000 feet altitude.

134651. **Rumex** sp. Polygonaceae.


134652. **Sesamum indicum** L. Pedaliaceae. Sesame.

September 7, 1939. From an irrigated valley south of Tagau-shireen at 1,200 feet altitude.


July 30, 1939. From an irrigated field above Sari Chasma at 8,000 feet altitude.

134654. **Setaria** sp. Grass.

August 31, 1939. A foxtail grass from the Ghorband Valley at 9,000 feet altitude.


July 27, 1939. From dry hillsides above Sari Chasma at 8,000 feet altitude.

134655. **Stipa** sp.

134656. **Stipa** sp.


134657. August 31, 1939. Irrigated wheat from the Ghorband Valley at 9,000 feet altitude.

134658. August 31, 1939. Irrigated wheats from the Ghorband Valley at 9,000 feet altitude.

134659. August 31, 1939. From the Ghorband Pass at 10,000 feet altitude; not irrigated, and grown at high altitude only.

134660. Dry-land wheat from Sang Charah, at 3,000 feet altitude.

134661. September 5, 1939. Dry-land wheat from steep hills east of Maimana at 1,500 feet altitude.

134662. September 1939. South of Khanabad at 1,000 feet altitude.

134663. August 31, 1939. From the top of the Ghorband Pass at 10,000 feet altitude.


134665 and 134666. **Vitis vinifera** L. Vitaceae. European grape.

134665. September 7, 1939. Red grapes from Maimana at 1,300 feet altitude.

134666. August 16, 1939. White grapes from the Kabul bazar.
From Switzerland. Plants purchased from the Nurseries of W. Marletaz, Bex (Vaud). Received December 18, 1939.


134668. *Pomme Cloche.*
134669. *Pomme Raisin.*
134672. *Surprise.*
134670. *Reinette de Chevroux.*
134673. *Tilsith.*

134674 to 134680. *PRUNUS* spp. Amygdalaceae.


134676 to 134680. *PRUNUS AVIUM* L. Sweet cherry.

134676. *Noire de Montreux.*
134679. *Noire de Lowertz.*
134677. *Noire de Chavannes.*
134680. *Précoce de Clies.*
134678. *Noire de la Grappe.*


134681. *Bergamotte Montagne.*
134683. *Culotte Suisse.*
134682. *Beurré Vauban.*
134684. *Poire à Botze.*

134685 and 134686.

From Costa Rica. Seeds collected by Loren G. Polhamus, Bureau of Plant Industry, United States Department of Agriculture. Received December 19, 1939.


*Palma escoba.* From near Cairo, November 22, 1939. Trunk 4 inches in diameter; leaf-blades fibrous, deciduous, and fan-shaped, dividing irregularly. Fruits nearly round, more than 2 cm. in diameter.


*Palmiche morado.* From near Cairo, November 22, 1939, growing on a hillside, with many basal roots exposed. A palm with long, simple, fishtail leaves, the young leaves with a bronze tinge.

134687 to 134690. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.

From New Jersey. Plants presented by Prof. M. A. Blake, Agricultural Experiment Station, New Brunswick. Received December 20, 1939.

134687. *New Jersey 98.*
134689. *Pacemaker.*
134688. *Raritan Rose.*
134690. *White Hale.*

134691 to 134713.

From Afghanistan. Seeds collected by Mrs. Elizabeth Bacon, White Plains, N. Y. Received December 14, 1939.

134691. *ALLIUM* sp. Liliaceae. Turnip.

No. 110. *Bulany.* From Sari Casma.

134692. *BRASSICA KAPA* L. Brassicaceae.

No. 69. From the Kabul bazar.
134691 to 134713—Continued

   No. 68. From the Kabul bazar.

   No. 111. From Kabul.

   No. 73. From the Kabul bazar.

   No. 59. Collected at Sari Casma.

   No. 81. From the Kabul bazar.

   No. 74. From the Kabul bazar.

   No. 77. From the Kabul bazar.


   No. 61. Cukri. Wild rhubarb from Sari Casma.

   No. 73-A. From the Kabul bazar.

   No. 76. Saftal (red clover), from the Kabul bazar.

   134704. No. 58. From Sari Casma.

134705. No. 72. From the bazar at Kabul.

134706. No. 73-B. From the bazar at Kabul.

134707. No. 105. Collected between 9,000 and 10,000 feet altitude. Locality
   not given.

   No. 75. From the Kabul bazar.

134709 to 134711. Vicia spp.
   134709. No. 70. From the Kabul bazar.


   134712. No. 71. From the Kabul bazar.

134713. No. 104. Collected in a field near Kabul.

134714 to 134717.

From England. Plants purchased from the Knap Hill Nursery, Ltd., Woking,
Surrey. Received December 27, 1939.

   A native American shrub with blue flowers.
   For previous introduction see 62567.
134714 to 134717—Continued


An attractive deciduous shrub with slender branches, native to the mountain of Taiwan. The white or pinkish-white flowers, with conspicuous golden-yellow stamens, are in graceful racemes.

For previous introduction see 132329.


Enchantress.


A late-flowering Chinese species up to 6 feet high, with oval leaves, dull grayish beneath. The white flowers are produced 5 to 9 together on racemes about 2 inches long, at the end of short leafy shoots, and have an odor like that of hawthorn. The flowering season is from the middle of late July.

For previous introduction see 104916.

134718 to 134720. Avena sativa L. Poaceae. Oats.

From Sweden. Seeds presented by the Allmanna Svenska Utsändesaktiebolaget, Svalöf. Received December 27, 1939.

134718. Eagle oats.

134719. Golden oats.

134720. Star oats.


From Mexico. Plants collected by Cornelius H. Muller, Bureau of Plant Industry, United States Department of Agriculture. Received in December 1939.

No. 3245. From Cuatro Cienagas, Coahuila, September 10, 1930. A shrub 1 to 4 feet tall with white flowers.

134722 to 134732.

From China. Seeds and bulbs collected by Peter Liu, Peiping. Received December 29, 1939.


A collection of late-ripening chestnuts, obtained in October 1939.

134722. From Pei Tao village, north of San T'un Ying.

134723. From Pa Li P'u village, southeast of San T'un Ying.

134724. From Tsui Ke Chuang, northwest of Luan Chow.

134725. From Tsui Ke Chuang, northwest of Luan Chow.

134726. From Pei Tao, north of San T'un Ying.

134727. From Pei Tao village, north of San T'un Ying.

134728. From Pa Li P'u village, southeast of San T'un Ying.

134729. From Pa Li P'u village, southeast of San T'un Ying.

134730. From Tsui Ke Chuang, northwest of Luan Chow.

For previous introduction see 113669.

134731. Pyrus sp. Malaceae. 

Pear.

Seeds of a wild pear, collected in the Temple of Heaven grounds, Peiping. Fruit very small, ¹⁄₄ inch in diameter, dark brown when ripe.

134732. Scilla chinensis Benth. Liliaceae.
134733. **Rubus sp.** Rosaceae.

From Peru. Seeds presented by Dr. T. H. Goodspeed, University of California Botanical Garden Expedition to the Andes, University of California, Berkeley. Received December 26, 1939.

No. 39. 2499. Collected in Departamento Puno, Peru, 1939.


From Uruguay. Seeds presented by Dr. Bernardo Rosengurtt, Montevideo. Received December 21, 1939.

A forage grass collected at Tres Arboles, Rio Negro. An erect cespitose perennial grass with narrow, spikelike panicles. Native to Brazil and Uruguay.

For previous introduction see 128167.

134735. **Trifolium subterraneum** L. Fabaceae. Subterranean clover.

From Australia. Seeds presented by the Waite Agricultural Research Institute, Glen Osmond, South Australia. Received December 28, 1939.

For previous introduction see 132222.
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