

698 L  
p 2

# Plant Inventory No. 144

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D. C. September 1950



---

## PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY,<sup>1</sup> JULY 1 TO SEPTEMBER 30, 1940 (Nos. 137938 to 139272)

### CONTENTS

	Page
Inventory .....	3
Index of common and scientific names .....	56

---

### INTRODUCTORY STATEMENT

This inventory, No. 144, lists the plant material (Nos. 137938 to 139272) received by the Division of Plant Exploration and Introduction during the period from July 1 to September 30, 1940. 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.

PAUL G. RUSSELL,  
*Botanist.*

*Plant Industry Station,  
Beltsville, Md.*

---

<sup>1</sup> Now Bureau of Plant Industry, Soils, and Agricultural Engineering, Agricultural Research Administration, United States Department of Agriculture.



## INVENTORY

**137938. ANNONA PALUDOSA** Aubl. Annonaceae.

From Florida. Plants presented by Dr. David Fairchild; originally from Merritts Island. Numbered July 15, 1940.

An evergreen small tree, with oblong-acute leaves 6 to 8 inches long; small greenish flowers, and yellow, ovoid, edible fruits about 2 inches long. Native to French Guiana.

**137939. COIX LACRYMA-JOBI** var. **MA-YUEN** (Romanet) Stapf.  
Poaceae. Adlay.

From Costa Rica. Seeds presented by Dr. Alexander F. Skutch, Curator of the Department of Botany, National Museum of Costa Rica, San José. Received July 15, 1940.

For previous introduction see 66792.

**137940. IPOMOEA BATATAS** (L.) Poir. Convolvulaceae.  
Sweetpotato.

From the Bahamas. Tubers presented by the American Consul, J. W. Dye, Nassau. Received July 8, 1940.

*Solomon.*

For previous introduction see 132062.

**137941 to 137943.**

From Mexico. Material presented by Christian Halbinger, "El Troquel," Mexico City. Received July 9, 1940.

**137941. ZEPHYRANTHES** sp. Amaryllidaceae.

(Seeds.)

**137942. NOTHOSCORDUM** sp. Liliaceae.

(Bulbs.)

**137943.** (Undetermined.)

*Sabadilla.* Said to belong to the Liliaceae; very poisonous to animals.

(Roots.)

**137944. PHAEDRANASSA CARMIOLOI** Baker. Amaryllidaceae.

From Costa Rica. Bulbs presented by Austin Smith, Zarcero. Received April 19, 1939.

A bulbous plant up to 2 feet high, with 1 to 3 oblanceolate leaves up to 15 inches long appearing at flowering time, and umbels of 6 to 10 scarlet flowers about 2 inches long. Originally described from Costa Rica but may not be native there. Collected at an altitude of 4,500 feet.

**137945 to 138007.**

From the Dutch East Indies and the Philippine Islands. Material collected by the Archbold-Fairchild Expedition. Numbered in July, 1940.

Unless otherwise stated all material is from the Dutch East Indies, and was received as seeds.

**137945. ALOCASIA ZEBRINA** Baker. Araceae.

No. 73. Plants collected on Lake Bulusan trail on Volcano Bulusan, Sorogon Camarine Sur, Luzon, Philippine Islands, November 8, 1939. An attractive species, with petioles marked with bands of green. Native to the Philippine Islands.

**137946 and 137947. ANTIDESMA MONTANUM** Blume. Euphorbiaceae.

From the Botanic Garden, Buitenzorg, Java, April 7, 1940. A tree up to

## 137945 to 138007—Continued

40 feet high, with softly tomentose branchlets, native to the Malay Peninsula. The oblong to elliptic-lanceolate leaves are 4 to 6 inches long, and the inconspicuous flowers are followed by edible red subglobose fruits, 1/10 inch long, borne in spikes 3 inches long; the taste is tart and slightly bitter.

137946. No. 275.

137947. No. 276. Differs from 137946 in having larger fruits marked with gray.

For previous introduction see 101243.

137948. ARECA sp. Phoenicaceae.

**Palm.**

No. 48. Plant collected on the slope of Bulusan Volcano, National Forest Park, Philippine Islands, November 8, 1939. A small tree about 15 feet high, with a slender trunk, pinnate leaves, and ovoid crimson fruits about 1 inch in diameter borne in compact clusters.

137949. ARTOCARPUS sp. Moraceae.

No. 267. *Taop*. From Sibang, Bali, March 25, 1940. A tree with attractive leaves 4 feet long and 2 inches wide, some entire and some deeply lobed on the same tree. The bright yellow fruit is 7 to 8 inches long, covered with curved soft spines 1 inch long; the 40 seeds, 3/4 inch across, are arranged around a core, and each seed is surrounded by a soft white aril composed of many fine fibers. The latex is very sticky.

137950. AZADIRACHTA INDICA (L.) Juss. Meliaceae.

**Neem tree.**

No. 264. From Gilmanok, Bali, March 18, 1940. A large handsome tropical Indian tree, with long spreading branches and small fragrant white flowers. The timber is hard and is not eaten by termites. The tree is suited to the seacoast as well as to the interior. The leaves and fruits are used medicinally, and the seeds contain an oil that is used for rheumatism.

For previous introduction see 73095.

137951. BARRINGTONIA RACEMOSA (L.) Roxb. Lecythidaceae.

No. 55. Plants collected at Gubat, Sorsogon Province, Luzon, Philippine Islands, November 8, 1939. A small tree, with racemes of attractive white flowers; suited to the seashore.

137952. CAPPARIS sp. Capparidaceae.

No. 3418. From Paloe, Celebes, March 24, 1940. A scandent vine, with obovate, acuminate leaves 4 inches long and 2 inches wide. The inconspicuous flowers are in long pendent sprays, and the red fruits, 1/5 inch long and 1/5 inch wide, resemble small bell peppers.

137953. CHISOCHETON sp. Meliaceae.

No. 3461. From Masamba, Celebes, April 18, 1940. A small tree, with compound alternate leaves up to 36 inches long; the six pairs or more of opposite leaflets are up to 12 inches long and prominently veined beneath. The red globose fruits, 2 inches in diameter, are widely spaced on a raceme 2 to 3 feet long, and contain three seeds about 3/4 inch long, flattened ovate, with an orange spot at the end.

137954. CLERODENDRUM MINAHASSAE Teijsm. and Binn. Verbenaceae.

No. 205. From the slopes of the volcano Soepoetan, February 8, 1940. An attractive shrub; the flower with a red calyx about 2 inches across, and petals 1/2 inch wide makes a striking contrast with the turquoise blue fruits.

137955. CORDIA SUBCORDATA Lam. Boraginaceae.

No. 280. From the Institute of Fisheries in Batavia, Java, April 10, 1940. A tree up to 50 feet high, with subcordate leaves 5 to 6 inches long and short terminal and lateral cymes of large, orange, campanulate flowers. The soft, light, durable wood is used for cabinet work, exhibiting wavy ribbons of

## 137945 to 138007—Continued

light and dark brown when polished. Native to the Hawaiian and other tropical islands.

For previous introduction see 83956.

137956. *Cordia* sp.

No. 255. From Corontola Bay, Celebes, March 3, 1940. A shrub or small tree, with smooth, coriaceous, ovate, entire leaves, lighter green below than above; the thin-skinned, flesh-colored berries are egg-shaped,  $\frac{3}{4}$  by 1 inch, with a sharp point at the apex, and contain a sticky substance that, because of the raphides in it, makes the fruits unfit to eat.

137957. *Cordia dichotoma* Forst. f.

No. 3422. From Paloe, Celebes, March 25, 1940. An attractive small sprawling tree, the dark-green leaves spirally alternate, almost oval, irregularly but not deeply lobed along the apical half of the margin. The small, fragrant, white flowers are in large clusters, and the round pinkish fruits are  $\frac{3}{8}$  inch in diameter.

137958. *Corypha elata* Roxb. Phoenicaceae.

Palm.

No. 258. From the National Monument of Bali, Saint Nicholas Bay, March 12, 1940. A tall palm, up to 60 feet high, with a spirally ridged trunk and lunate, fan-shaped leaves 8 to 10 feet across, made up of 80 to 100 sword-shaped segments. Native to Burma and Bengal.

For previous introduction see 122837.

137959. *Crotalaria* sp. Fabaceae.

No. 197. From Sangi Island, January 31, 1940.

137960. *Dracaena* sp. Liliaceae.

No. 3454. From Makassar, Bonthean Road, Celebes, April 13, 1940. An interesting, coarse-branched pandanlike plant with leaves up to 25 inches long and 2 inches broad, spirally and very closely arranged on the end of the branches, which are about  $1\frac{1}{2}$  to 2 inches in diameter and have prominent leaf scars. The small, round fruits, red when ripe, are in large upright clusters.

137961. *Eugenia curranii* C. B. Robinson. Myrtaceae.

Lipoti.

No. 3438. From Koro River, Gimpoe, Celebes, April 3, 1940. A handsome vigorous tree, native to the Philippine Islands, about 30 feet high, with a gnarled trunk and tortuous branches and dark-green, shining leaves. The fruits are in clusters of 20 to 50 on the bare boughs or between the leaves on the large twigs; the individual fruit is about the size of a grape, with thin, smooth, dark-red skin and white, dry, crisp flesh, with a flavor like that of the crabapple. The seed is comparatively large. The fruit is probably best suited for making preserves and jelly.

For previous introduction see 80865.

137962 to 137968. *Ficus* spp. Moraceae.

Fig.

137962. *Ficus* sp.

No. 217. Plants collected in swampy land along the coast of Minahasa, February 15, 1940. A small tree that branches from near the base. The leaves are very hispid, like those of *F. hispida* L., and the pear-shaped fruits,  $1\frac{1}{2}$  inches long, turn red when ripe and have sandpaperlike skin with brown spots.

137963. *Ficus* sp.

No. 265. From Bonkase, Bali, March 18, 1940.

137964. *Ficus* sp.

No. 271. From a wood trail off the highway between Kabat and

## 137945 to 138007—Continued

Banjoewangi, Java, March 18, 1940. A large-fruited fig with small, light-green leaves, and juicy fruits, 2 inches in diameter.

137965. *FICUS* sp.

No. 3411. From Paloe, Celebes, March 22, 1940. A pendulous tree up to 60 feet high, with yellow-green leaves, lighter green underneath, up to 8 inches long and  $3\frac{1}{2}$  inches broad. The orange-colored, jug-shaped fruits,  $\frac{5}{8}$  inch in diameter, are borne in the axils of the leaves.

137966. *FICUS* sp.

No. 3419. From Paloe at Tondo, Celebes, March 24, 1940. A large, sprawling tree of open habit, which tends to spread like the banyan tree of India. The glossy, thick, leathery leaves are up to 10 inches long and  $3\frac{1}{2}$  inches broad. The fruits, yellow covered with a thick white fuzz, are fleshy, 2 by  $1\frac{1}{4}$  inches, and usually borne in pairs in the axils of the leaves, from two to six pairs per branch.

137967. *FICUS* sp.

No. 3431. From Koelawi, Celebes, March 30, 1940.

137968. *FICUS BENJAMINA* L.

No. 3467. From Makele, Celebes, March 21, 1940. A large tree, with very dark-green, acuminate, brittle leaves  $3\frac{1}{2}$  inches long and 2 inches broad, and red fruits with inconspicuous yellow dots scattered over the surface, borne in closely joined pairs in the axils of the leaves; much eaten by birds.

137969. *GARCINIA* sp. Clusiaceae.

No. 272. *Badoeng*. From the side of the road leading to Besuki temple, Bali, March 23, 1940. A tall tree with glossy, acuminate leaves 5 inches long and  $1\frac{1}{2}$  inches wide. The dull-orange fruit, ovoid with a protruding tip, and 2 inches in diameter, has a smooth, thick skin, with the stem sunken in the top of the fruit. The pulp is divided into six translucent segments, with some segments seedless and others with a thin flat seed shaped like an almond kernel.

137970. *GNETUM GNEMON* L. Gnetaceae.

No. 262. *Malindjo*. From a market at Banghalan, Madoera, March 16, 1940. An evergreen shrub or small tree extending from the Khasi Hills of India southward to Singapore and Java. The sessile orange-colored fruits are about 1 inch long and are eaten by the natives. The leaves are eaten boiled like spinach, and the bark is said to furnish a strong bast fiber.

For previous introduction see 45152.

137971. *IMPATIENS* sp. Impatientaceae.

Snapweed.

No. 3433. From Lindoe trail, Koelawi, Celebes, March 29, 1940.

137972. *IMPATIENS* sp.

No. 3434. From Lindoe trail, Koelawi, Celebes, March 29, 1940. A balsam plant with numerous large bright-orange flowers borne singly on long stems beyond the leaves.

137973. *LICUALA* sp. Phoenicaceae.

Palm.

No. 3470. From Celebes. This species is common locally. The leaves have spiny petioles 6 to 8 feet long, and the leaflets are cut almost, if not entirely, to the center.

137974. *MELOTHRIA* sp. Cucurbitaceae.

No. 3447. *Pawn Shop Vine*. From Donggala, Celebes, April 5, 1940. A small climbing vine, with palmate, five-lobed, light-green, rough leaves up to 3 inches long. The small fruits,  $\frac{3}{8}$  inch in diameter, are three in a

## 137945 to 138007—Continued

cluster, green, with watermelon stripes when immature but bright red when ripe. The seeds are small, numerous, white, and tick-shaped.

## 137975. MELOTHRIA sp.

No. 3443. From Donggala, Celebes, April 5, 1940. An ornamental climbing vine, with tendril bearing fuzzy, palmate, five-lobed leaves, and attractive bright-red fruits  $1\frac{1}{2}$  inches long and  $\frac{1}{2}$  inch in diameter. The small, greenish-yellow, flattened seeds resemble ticks and are surrounded by cream-colored pulp.

## 137976. MURRAYA PANICULATA (L.) Jack. Rutaceae.

No. 230. Plants collected on Lembek Island, Minahassee, Celebes, February 18, 1940. An attractive shrub with dark shiny leaves and fragrant white flowers resembling orange blossoms.

For previous introduction see 115888.

## 137977. MUSA sp. Musaceae.

No. 3406. From Kebon, Kepi, Celebes, March 20, 1940. A tall banana up to 15 feet in height, of stoloniferous habit, with the trunk 8 inches in diameter at the base, and with leaves up to 10 feet long, with a strong purplish cast on the under side. The fruits resemble those of *Musa errans*, but the bunch hangs down almost vertically, and is compactly arranged much as in *Gros Michel*. The fruit is thin-skinned, with sparse, creamy pulp filled with flattened, round, irregular seeds.

## 137978. MUSA sp.

No. 3407. From Kebon, Kepi, Celebes, March 20, 1940. A tall banana up to 15 feet, with a stout stem 12 inches in basal diameter, the stalk and petiole washed with mahogany brown. The leaves are broader than those of most bananas, and the flower bracts are creamy white. The short, sticky, thick-skinned fruit has a rather long neck, and the stalk hangs down nearly vertically with the fruits standing out almost at right angles. The orange-colored flesh is filled with very numerous, flattened, round, irregular seeds. There are 12 to 20 hands per stalk (stem) and 8 to 15 fruits in a hand.

## 137979. PHAEOMERIA SPECIOSA (Blume) Koord. Zingiberaceae.

No. 281. *Hondje*. Fruit bought on the market at Buitenzorg, Java, April 7, 1940. A very striking species from Java, with great pinnate leaves rising from the ground to a height of 12 feet; the leaflets are about 2 feet long. The under surface of the leaflets is a lovely bronze-claret color, making the plant, when seen against the sunlight, a wonderfully beautiful thing. It is usually propagated by rhizome cuttings.

For previous introduction see 93316.

## 137980. PHAEOMERIA sp.

No. 3436. *Lotus Blossom Ginger*. From Koro River, Gimpoe, Celebes, April 3, 1940. A beautiful flowering plant, with light-green leaves 2 feet long, 5 inches broad, alternate on a stalk reaching 12 feet high. The flowers arise from the rhizome underground, with the first petals very broad, pink, waxy, tipped with a red beak; later a head emerges composed of numerous watermelon-pink bracts tipped with white and is in the shape of a rounded cone. The individual flowers at the base of the bract open in rows and are tipped with very dark red. The black seeds, enclosed in a rounded fruit about  $1\frac{1}{4}$  inches in diameter, are embedded in a sour, edible pulp.

## 137981. PIPER sp. Piperaceae.

No. 3427. From Koelawi, Celebes, March 30, 1940. A creeping vine, with dark-green, ovate-acuminate leaves 5 inches long,  $2\frac{1}{2}$  inches broad; the stem is angular-jointed, with creeping tendrils that adhere to surface of tree trunk. Small oblong clusters of round red fruits,  $\frac{1}{8}$  inch in diameter, are fairly thickly distributed along the cluster stem; each fruit has a small

## 137945 to 138007—Continued

individual stem and one small, round, white seed surrounded by a watery pulp.

137982. *PLEOMELE ANGUSTIFOLIA* (Roxb.) N. E. Brown. Liliaceae.

No. 56. Plants collected in Bulusan National Forestry Park, Philippine Islands, November 8, 1939. A tree with small flowers in hanging clusters.

137983. *PLEOMELE* sp.

No. 3458. From Masamba, Celebes, April 17, 1940. A small, loose-branched tree resembling a small-leaved pandan, with alternate, acuminate leaves up to 8 inches long by 1½ inches broad. The fruits are borne in candelabralike clusters, which are pendent when the fruit is ripe; the individual fruits are round, 1 inch in diameter, orange, and enclose an ivory-colored, semiopaque seed.

137984. *PONGAMIA* sp. Fabaceae.

No. 3437. From Koro River, Gimpoe, Koelawi, Celebes, April 3, 1940. An attractive tree, with dark, glossy, green, pinnate leaves 4 inches long. The fragrant, purplish, pea-shaped flowers, ½ inch long, are borne in spikes up to 10 inches long.

137985. *PREMNA* sp. Verbenaceae.

No. 196. Plants collected on the seashore of Bai van Dago, Sangi Island, January 31, 1940. A shrub with smooth and black shiny leaves.

137986. *PREMNA* sp.

No. 250. Plants collected on the shell sand beach, Marissa, Celebes.

137987. *PTEROCARPUS* sp. Fabaceae.

No. 3456. From Senkang, Palipo Road, Celebes, April 15, 1940. A large beautiful tree, with compound, alternate leaves up to 12 inches long; the oblong-acuminate leaflets are about 3½ inches long. The fragrant, yellow flowers are in large dense clusters.

137988 and 137989. *SALAKKA EDULIS* Reinw. (*Zalacca edulis* Schult.).  
Phoenicaceae. Palm.

137988. No. 260. *Tjotjor*, *Birds Beak*. From Madoera Island, March 16, 1940.

137989. No. 269. *Trotjor*. From Madura Island, March 23, 1940.

For previous introduction see 94098.

137990. *SCHEFFLERA* sp. Araliaceae.

No. 3428. From Koelawi, Celebes, March 30, 1940. A lovely scandent vine, with palmate leaves up to 20 inches across; the seven dark-green individual leaflets are attached to a central point by separate petioles 6 to 10 inches long. The round fruits are ¼ inch in diameter, yellow turning to red, then black when mature, and are borne on very large, rather stiff sprays, once branched, in small clusters of four to six along the branches.

137991. *SESBANIA* sp. Fabaceae.

No. 3439. From Gimpoe, Loelawi, Celebes, April 3, 1940.

137992. *SPONDIAS MOMBIN* L. Anacardiaceae. Yellow mombin.

No. 282. From the Botanic Garden, Buitenzorg, Java.

For previous introduction see 72709.

137993. *SPONDIAS* sp.

No. 3451. From Tana, Mea, Donggala, Celebes, April 6, 1940. An ornamental medium-sized tree, with compound, whorled, alternate leaves about 12 inches long; the light glossy green leaflets are 4 inches long. The bright-



## 137945 to 138007—Continued

red ovate fruits,  $\frac{1}{2}$  inch long, are in numerous clusters from the axils of the leaves near the end of the branch.

## 137994. STERCULIA sp. Sterculiaceae.

No. 62. Plants collected at the Cadwallader Gibson Concession, Tandoc, Carmarines Sur, Luzon, Philippine Islands, November 12, 1939. A small tree, with handsome fruits resembling scarlet velvet when ripe, bright yellow when immature.

## 137995. TABERNAEMONTANA sp. Apocynaceae.

No. 3417. From Paloe, Celebes, March 23, 1940. A bushy shrub up to 10 feet high, with opposite, light-green, glabrous leaves, prominently veined beneath, 4 inches long,  $1\frac{1}{2}$  inches broad. The flowers are white, five-petaled, with a trumpet-shaped tube about 1 inch long and 1 inch across, and occur in dense clusters. The orange-colored fruits, borne in pairs, resemble a pair of horns somewhat flattened at base, 2 inches long and  $\frac{3}{8}$  inch wide, and when open expose the seeds covered by an orange pulp.

## 137996 TABERNAEMONTANA sp.

No. 3450. From Pina-dopa, Posso, Celebes, March 15, 1940. A small, spreading tree up to 35 feet high, with oblong acuminate, thick leaves  $\frac{1}{2}$  by  $3\frac{1}{2}$  inches, with milky juice in the veins; the large, white-petaled flowers are trumpet-shaped. The large orange fruits are irregularly ovate, with four or five prominent veins running parallel to the axis of fruit. The dried latex from the stem or fruit is of the consistency of chewing gum and can be chewed.

## 137997. TEPHROSIA sp. Fabaceae.

No. 3455. From Sindjar, Malino Road, Celebes, April 13, 1940. A small shrub, with compound leaves up to 10 inches long, and leaflets up to  $3\frac{1}{2}$  inches long and  $1\frac{1}{2}$  inches wide; the white, fragrant flowers are  $1\frac{1}{2}$  inches long.

## 137998. TRICHOSANTHES sp. Cucurbitaceae.

No. 263. From Kabata, eastern Java, March 18, 1940. A rampant vine, with palmately lobed rough leaves, 6 inches across, and brilliant dark lacquer-red, ovoid fruits 6 inches long, thick-walled with yellow flesh and a rather small cavity that is filled with a slimy, deep dark-green mass of pulp enclosing numerous seeds  $\frac{3}{4}$  inch long that look like brown melon seeds.

## 137999. TRICHOSANTHES sp.

No. 270. From Banghi, Bali, March 23, 1940. A showy vine resembling No. 137998, except that the leaves are thinner and the fruit about one-half as large, perhaps a shade darker, and has more of a point. The pulp is intensely bitter.

## 138000. TRICHOSANTHES sp.

No. 3453. From Tana, Mea, Donggala Road, Celebes, April 6, 1940. A strong-growing vine, with dark-green leaves up to 9 inches long and 7 inches broad, with one tendril at each leaf axis. The round brilliant-red fruits, up to 4 inches in diameter, are woody, gourdlike, and enclose a brownish black pulp in which are embedded numerous oblong, flattened brownish-black seeds  $\frac{1}{2}$  inch long.

## 138001. BRYONOPSIS LACINIOSA (L.) Naud. Cucurbitaceae.

No. 3465. From Makele, Celebes, April 19, 1940. A slender, cucurbitaceous vine, with attractive leaves. The yellow fruits are the size and shape of pecans.

For previous introduction see 31577.

## 137945 to 138007—Continued

138002. *UVARIA* sp. Annonaceae.

No. 274. From the scrubby vegetation that covers the dry peninsula of Tafelnoek, Bali, March 27, 1940. A small shrub, with soft-hairy, ovate, acuminate leaves, 3 inches long, cordate at base. The orange-red fruit clusters, not more than 2 inches across, are composed of separate fruitlets  $\frac{3}{4}$  inch long, resembling tiny papaws.

138003. *UVARIA* sp.

No. 3457. From Masamba, Celebes, April 17, 1940. A large vine, with velvety leaves 6 inches long and  $2\frac{1}{2}$  inches wide. The salmon-pink fruits, 3 inches long and  $1\frac{1}{4}$  inches wide, 20 in a cluster, contain numerous grayish-black, oblong, flattened seeds up to  $\frac{3}{4}$  inch long.

138004. *UVARIA* sp.

No. 3445. From Donggala, Celebes, April 5, 1940. A small tree, with light-green leaves up to 8 inches long and 2 inches broad. The black, oblong fruits, attached by a small stem to the swollen knob at the end of the branch, number about 50 in clusters 3 to 5 inches in diameter.

138005. *VERSCHAFFELTIA SPLENDIDA* Wendl. Phoenicaceae.

No. 277. From the Buitenzorg Botanical Gardens, Java, April 8, 1940.

For previous introduction see 97281.

138006. *ZINGIBER* sp. Zingiberaceae.

No. 187. Plants collected at Port Lebak, Mindanao, Philippine Islands, in a shady forest at low altitude, January 25, 1940. An attractive species with flower heads borne as side shoots from the tall, large-leaved, decorative plants. The flowers are purple red, with about 40 individual flowers in a head.

138007. *ZINGIBER SYLVATICUM* Elmer.

No. 61. Plants collected along the railroad track to the camp of Cadwallader Gibson Concession, Tandoc, Camarines Sur, Luzon, Philippine Islands, November 12, 1939. An ornamental species, with pretty orange berries borne in clusters of slender hanging stems.

## 138008 to 138402.

From China. Seeds collected by Peter Liu. Received July 12, 1940.

138008 to 138018. *ULMUS MACROCARPA* Hance. Ulmaceae.

Elm.

From Hsieh Chu Yuan Garden, Summer Palace, Peiping, Chihli.

138008. (No number). 138014. 386-F.

138009. 386-A. 138015. 386-G.

138010. 386-B. 138016. 386-H.

138011. 386-C. 138017. 386-I.

138012. 386-D. 138018. 386-J.

138013. 386-E.

For previous introduction see 64463.

138019 to 138402. *ULMUS PUMILA* L.

Chinese elm.

Unless otherwise stated these were received as Black Elm.

Nos. 138019 to 138045 from Temple of Heaven Grounds, Peiping, Chihli, April 23, 1940.

138019. No. 1.

138020. No. 2.

138021. No. 3.

## 138008 to 138402—Continued

138022. No. 4.  
 138023. No. 5.  
 138024. No. 6.  
 138025. No. 7.  
 138026. No. 8.  
 138027. No. 9.  
 138028. No. 10.  
 138029. No. 11.  
 138030. No. 12. A tall-growing tree, with a trunk about 12 feet high.  
 138031. No. 14.  
 138032. No. 15.  
 138033. No. 16. A dwarf, low-growing tree.  
 138034. No. 17. A tall-growing tree, with a trunk 5 inches in diameter and 15 feet high.  
 138035. No. 18.  
 138036. No. 19.  
 138037. No. 20.  
 138038. No. 21.  
 138039. No. 22.  
 138040. No. 23.  
 138041. No. 24.  
 138042. No. 25. A tree, with a trunk 8 inches in diameter and 8 feet high.  
 138043. No. 26. *White Elm*.  
 138044. No. 27. *White Elm*.  
 138045. No. 28. *White Elm*.

Nos. 138046 to 138051. From Hsiao Chu Tien, near Peiping, April 24, 1940.

- |                                    |                 |
|------------------------------------|-----------------|
| 138046. No. 29.                    | 138049. No. 32. |
| 138047. No. 30. <i>White Elm</i> . | 138050. No. 33. |
| 138048. No. 31. <i>White Elm</i> . | 138051. No. 34. |

Nos. 138052 to 138062. From She Cha Peng, near Peiping, April 24, 1940.

- |                                    |                 |
|------------------------------------|-----------------|
| 138052. No. 35.                    | 138058. No. 41. |
| 138053. No. 36. <i>White Elm</i> . | 138059. No. 42. |
| 138054. No. 37. <i>White Elm</i> . | 138060. No. 43. |
| 138055. No. 38.                    | 138061. No. 44. |
| 138056. No. 39.                    | 138062. No. 45. |

138057. No. 40.

Nos. 138063 to 138068. From Hu Chia Lou, near Peiping, April 24, 1940.

138063. No. 46.  
 138064. No. 47. A dwarf, or low-growing tree.  
 138065. No. 48.  
 138066. No. 49.

## 138008 to 138402—Continued

138067. No. 50.

138068. No. 51.

Nos. 138069 and 138070. From San Ching Chia Fen, near Peiping, April 25, 1940.

138069. No. 52.

138070. No. 53.

Nos. 138071 to 138076. From Tieh Chiang Ying, near Peiping, April 25, 1940.

138071. No. 54.

138074. No. 57.

138072. No. 55.

138075. No. 58.

138073. No. 56.

138076. No. 59.

Nos. 138077 to 138083. From Chao Kung Kou, near Peiping, April 25, 1940.

138077. No. 60. *White Elm.*

138081. No. 64.

138078. No. 61.

138082. No. 65.

138079. No. 62.

138083. No. 66.

138080. No. 63. *White Elm.*

Nos. 138084 to 138100. From Pao Hua Ssu, near Peiping, April 25, 1940.

138084. No. 67.

138093. No. 76.

138085. No. 68. *White Elm.*

138094. No. 77.

138086. No. 69.

138095. No. 78.

138087. No. 70.

138096. No. 79.

138088. No. 71.

138097. No. 80.

138089. No. 72.

138098. No. 81.

138090. No. 73.

138099. No. 82.

138091. No. 74.

138100. No. 83.

138092. No. 75.

Nos. 138101 and 138102. From Wu Lou, near Peiping, April 25, 1940.

138101. No. 84.

138102. No. 85.

Nos. 138103 to 138108. From Tao Fen, near Peiping, April 26, 1940.

138103. No. 86.

138106. No. 89.

138104. No. 87.

138107. No. 90.

138105. No. 88.

138108. No. 91.

Nos. 138109 to 138119. From near the White Cloud Temple, near Peiping, April 26, 1940. *White Elm.*

138109. No. 92.

138115. No. 98.

138110. No. 93.

138116. No. 99.

138111. No. 94.

138117. No. 100.

138112. No. 95.

138118. No. 101.

138113. No. 96.

138119. No. 102.

138114. No. 97.

138008 to 138402—Continued

Nos. 138120 to 138131. From Shih Fang Yuan, near Peiping, April 26, 1940.

- 138120. No. 103. *White Elm.*
- 138121. No. 104. *White Elm.*
- 138122. No. 105. *White Elm.*
- 138123. No. 106. *White Elm.*
- 138124. No. 107. *Red Elm.* A common elm in this region.
- 138125. No. 108. *Red Elm.*
- 138126. No. 109. *White Elm.*
- 138127. No. 110. *White Elm.*
- 138128. No. 111. *White Elm.*
- 138129. No. 112. *Red Elm.*
- 138130. No. 113. *White Elm.*
- 138131. No. 114. *White Elm.*

Nos. 138132 to 138136. From Yang Fang Tien, near Peiping, April 26, 1940.

- 138132. No. 115. *Red Elm.*                      138135. No. 118.
- 138133. No. 116. *Red Elm.*                      138136. No. 119. *Red Elm.*
- 138134. No. 117.

Nos. 138137 to 138150. From Hao Chia Wan, outside Hsi Chih Men Gate, Peiping, April 27, 1940.

- 138137. No. 120.                                      138144. No. 127. *Red Elm.*
- 138138. No. 121.                                      138145. No. 128. *Red Elm.*
- 138139. No. 122.                                      138146. No. 129. *White Elm.*
- 138140. No. 123.                                      138147. No. 130. *White Elm.*
- 138141. No. 124.                                      138148. No. 131.
- 138142. No. 125. *Red Elm.*                      138149. No. 132.
- 138143. No. 126. *Red Elm.*                      138150. No. 133.

Nos. 138151 to 138166. From Pai Shih Chiao, outside Hsi Chih Men Gate, Peiping, April 27, 1940.

- 138151. No. 134.                                      138159. No. 142.
- 138152. No. 135.                                      138160. No. 143. *White Elm.*
- 138153. No. 136.                                      138161. No. 144. *White Elm.*
- 138154. No. 137.                                      138162. No. 145. *White Elm.*
- 138155. No. 138.                                      138163. No. 146. *Red Elm.*
- 138156. No. 139.                                      138164. No. 147. *Red Elm.*
- 138157. No. 140.                                      138165. No. 148. *Red Elm.*
- 138158. No. 141.                                      138166. No. 149. *Red Elm.*

Nos. 138167 to 138177. From 5 Pagoda Temple, outside of Hsi Chih Men Gate, Peiping, April 27, 1940.

- 138167. No. 150. *White Elm.*                      138170. No. 153. *White Elm.*
- 138168. No. 151. *White Elm.*                      138171. No. 154. *Red Elm.*
- 138169. No. 152. *White Elm.*                      138172. No. 155. *Red Elm.*

## 138008 to 138402—Continued

138173. No. 156. <i>Red Elm.</i>	138176. No. 159.
138174. No. 157.	138177. No. 160.
138175. No. 158.	

Nos. 138178 to 138181. From Hsieh Chu Yuan, Summer Palace, Peiping, April 29, 1940.

138178. No. 161.	138180. No. 163.
138179. No. 162.	138181. No. 164.

Nos. 138182 to 138215. From Black Hill, Summer Palace, Peiping, April 29, 1940.

138182. No. 165. <i>White Elm.</i>	138199. No. 182. <i>White Elm.</i>
138183. No. 166.	138200. No. 183.
138184. No. 167.	138201. No. 184.
138185. No. 168. <i>White Elm.</i>	138202. No. 185.
138186. No. 169. <i>Red Elm.</i>	138203. No. 186.
138187. No. 170.	138204. No. 187. <i>White Elm.</i>
138188. No. 171. <i>Red Elm.</i>	138205. No. 188.
138189. No. 172. <i>Red Elm.</i>	138206. No. 189.
138190. No. 173.	138207. No. 190.
138191. No. 174.	138208. No. 191.
138192. No. 175.	138209. No. 192. <i>Red Elm.</i>
138193. No. 176.	138210. No. 193.
138194. No. 177. <i>Red Elm.</i>	138211. No. 194.
138195. No. 178. <i>Red Elm.</i>	138212. No. 195. <i>Red Elm.</i>
138196. No. 179.	138213. No. 196.
138197. No. 180. <i>White Elm.</i>	138214. No. 197.
138198. No. 181.	138215. No. 198.

138216. No. 199. *White Elm.* From West Summer Palace Gate, Peiping, April 29, 1940.

Nos. 138217 to 138248. From Jade Fountain, Peiping, April 30, 1940.

138217. No. 200. <i>White Elm.</i>	138231. No. 214.
138218. No. 201.	138232. No. 215.
138219. No. 202.	138233. No. 216. <i>Red Elm.</i>
138220. No. 203.	138234. No. 217.
138221. No. 204. <i>White Elm.</i>	138235. No. 218. <i>White Elm.</i>
138222. No. 205.	138236. No. 219.
138223. No. 206.	138237. No. 220.
138224. No. 207.	138238. No. 221.
138225. No. 208. <i>White Elm.</i>	138239. No. 222.
138226. No. 209.	138240. No. 223. <i>White Elm.</i>
138227. No. 210.	138241. No. 224.
138228. No. 211. <i>Red Elm.</i>	138242. No. 225.
138229. No. 212.	138243. No. 226. <i>Red Elm.</i>
138230. No. 213.	138244. No. 227.

## 138008 to 138402—Continued

138245. No. 228.	138247. No. 230.
138246. No. 229.	138248. No. 231. <i>White Elm.</i>

Nos. 138249 to 138254. From Mao-lin-chu, outside Fu Cheng Men Gate, Peiping, May 1, 1940. *White Elm.*

138249. No. 232.	138252. No. 235.
138250. No. 233.	138253. No. 236.
138251. No. 234.	138254. No. 237.

Nos. 138255 to 138261. From Yang Fang Tien, southwest of Fu Cheng Men Gate, Peiping, May 1, 1940.

138255. No. 238. <i>Red Elm.</i>	138259. No. 242. <i>White Elm.</i>
138256. No. 239. <i>Red Elm.</i>	138260. No. 243. <i>White Elm.</i>
138257. No. 240.	138261. No. 244. <i>White Elm.</i>
138258. No. 241. <i>White Elm.</i>	

Nos. 138262 to 138268. From Huang Ting Tze, southwest of Fu Cheng Men Gate, Peiping, May 1, 1940.

138262. No. 245. <i>White Elm.</i>	138266. No. 249.
138263. No. 246. <i>White Elm.</i>	138267. No. 250.
138264. No. 247.	138268. No. 251.
138265. No. 248.	

Nos. 138269 to 138274. From Chung Hsing Ssu, outside Fu Cheng Gate, Peiping, May 1, 1940.

138269. No. 252.	138272. No. 255. <i>Red Elm.</i>
138270. No. 253. <i>Red Elm.</i>	138273. No. 256. <i>Red Elm.</i>
138271. No. 254. <i>Red Elm.</i>	138274. No. 257. <i>Red Elm.</i>

Nos. 138275 to 138279. From Yao Wang Miao, outside Fu Cheng Men Gate, Peiping, May 1, 1940.

138275. No. 258. <i>White Elm.</i>	138278. No. 261. <i>Red Elm.</i>
138276. No. 259. <i>White Elm.</i>	138279. No. 262. <i>Red Elm.</i>
138277. No. 260. <i>White Elm.</i>	

Nos. 138280 to 138303. From Wang Hai Lou, outside of Fu Cheng Men Gate, Peiping, May 2, 1940.

138280. No. 263. <i>Red Elm.</i>	138292. No. 275.
138281. No. 264.	138293. No. 276.
138282. No. 265.	138294. No. 277.
138283. No. 266.	138295. No. 278.
138284. No. 267.	138296. No. 279.
138285. No. 268. <i>Red Elm.</i>	138297. No. 280.
138286. No. 269.	138298. No. 281.
138287. No. 270.	138299. No. 282.
138288. No. 271.	138300. No. 283.
138289. No. 272.	138301. No. 284.
138290. No. 273. <i>Red Elm.</i>	138302. No. 285.
138291. No. 274.	138303. No. 286.

## 138008 to 138402—Continued

Nos. 138304 and 138305. From Man Tou Liu, outside Fu Cheng Men Gate, Peiping, May 2, 1940. *Red Elm.*

138304. No. 287.

138305. No. 288.

138306. No. 289. *Red Elm.* From Tiao Yu Tai, outside Fu Cheng Men Gate, Peiping, May 2, 1940.

Nos. 138307 to 138326. From Liang Kuo Ch'ang, outside Fu Cheng Men Gate, Peiping, May 3, 1940.

138307. No. 290. *White Elm.*

138317. No. 300. *Red Elm.*

138308. No. 291. *White Elm.*

138318. No. 301.

138309. No. 292.

138319. No. 302.

138310. No. 293. *White Elm.*

138320. No. 303. *Red Elm.*

138311. No. 294.

138321. No. 304. *White Elm.*

138312. No. 295.

138322. No. 305. *Red Elm.*

138313. No. 296. *Red Elm.*

138323. No. 306.

138314. No. 297. *Red Elm.*

138324. No. 307. *White Elm.*

138315. No. 298. *White Elm.*

138325. No. 308. *White Elm.*

138316. No. 299. *Red Elm.*

138326. No. 309. *Red Elm.*

Nos. 138327 to 138340. From Mu Hsu Ti, outside Fu Cheng Men Gate, Peiping, May 3, 1940.

138327. No. 310. *Red Elm.*

138334. No. 317.

138328. No. 311. *Red Elm.*

138335. No. 318. *Red Elm.*

138329. No. 312. *Red Elm.*

138336. No. 319. *Red Elm.*

138330. No. 313.

138337. No. 320. *White Elm.*

138331. No. 314. *White Elm.*

138338. No. 321. *Red Elm.*

138332. No. 315. *Red Elm.*

138339. No. 322.

138333. No. 316.

138340. No. 323. *Red Elm.*

Nos. 138341 to 138354. From Yuan Tung Kuan, near Peiping, May 4, 1940.

138341. No. 324. *Red Elm.*

138344. No. 327. *Red Elm.*

138342. No. 325. *Red Elm.*

138345. No. 328. *Red Elm.*

138343. No. 326.

Nos. 138346 to 138354. *White Elm.*

138346. No. 329.

138351. No. 334.

138347. No. 330.

138352. No. 335.

138348. No. 331.

138353. No. 336.

138349. No. 332.

138354. No. 337.

138350. No. 333.

Nos. 138355 to 138365. From Feng Huang Tsui, near Peiping, May 4, 1940.

138355. No. 338. *White Elm.*

138359. No. 342. *White Elm.*

138356. No. 339. *White Elm.*

138360. No. 343. *Red Elm.*

138357. No. 340. *White Elm.*

138361. No. 344. *White Elm.*

138358. No. 341. *Red Elm.*

138362. No. 345. *White Elm.*



## 138008 to 138402—Continued

138363. No. 346. *White Elm.* 138365. No. 348. *White Elm.*138364. No. 347. *White Elm.*

Nos. 138366 to 138395. From San Li Ho, near Peiping, May 5, 1940.

138366. No. 349. *Red Elm.* 138381. No. 364. *White Elm.*138367. No. 350. *Red Elm.* 138382. No. 365. *White Elm.*138368. No. 351. 138383. No. 366. *White Elm.*138369. No. 352. *Red Elm.* 138384. No. 367. *White Elm.*138370. No. 353. *Red Elm.* 138385. No. 368. *Red Elm.*138371. No. 354. *White Elm.* 138386. No. 369. *Red Elm.*138372. No. 355. *White Elm.* 138387. No. 370.138373. No. 356. 138388. No. 371. *White Elm.*138374. No. 357. *White Elm.* 138389. No. 372. *White Elm.*138375. No. 358. *White Elm.* 138390. No. 373. *Red Elm.*138376. No. 359. *White Elm.* 138391. No. 374. *White Elm.*138377. No. 360. *Red Elm.* 138392. No. 375. *White Elm.*138378. No. 361. *Red Elm.* 138393. No. 376. *Red Elm.*138379. No. 362. 138394. No. 377. *Red Elm.*138380. No. 363. *Red Elm.* 138395. No. 378. *White Elm.*

Nos. 138396 to 138402. From Na Kuo Ch'ang, near Peiping, May 5, 1940.

138396. No. 379. *White Elm.* 138400. No. 383. *White Elm.*138397. No. 380. *Red Elm.* 138401. No. 384. *White Elm.*138398. No. 381. *Red Elm.* 138402. No. 385.

138399. No. 382.

For previous introduction see 116704.

## 138403 to 138406.

From Canada. Seed presented by R. M. MacVicar, Department of Agriculture, Central Experimental Farm, Ottawa. Received July 3, 1940.

138403 to 138405. AGROPYRON TRACHYCAULUM (Link) Malte. Poaceae.  
Wheatgrass.138403. *Fyra Strain.*138404. *Grazier Strain.*138405. *Mecca Strain.*

For previous introduction see 127512.

138406. BROMUS sp. Poaceae. Grass.

*Parkland Brome Grass.*

## 138407. PIGAFETTIA ELATA (Mart.) Wendl. Phoenicaceae. Palm.

From the Dutch East Indies. Plants collected by the Archbold-Fairchild Expedition, Minahasa, Celebes. Numbered in July, 1940.

No. 220.

For previous introduction see 98504.

**138408 and 138409. SACCHARUM. Poaceae. Sugarcane.**

From Cuba. Cuttings presented by Referico Posy, Havana. Received July 13, 1940.

138408. *Medina Luna 3-18.*

138409. *Medina Luna 3-34.*

**138410 to 138415. SACCHARUM. Poaceae. Sugarcane.**

From Honolulu. Cuttings presented by the Experiment Station, Hawaiian Sugar Planters' Association. Received July 18, 1940.

138410. *Molokai 4730.*

138411. *Molokai 4826.*

138412. *Molokai 5193.*

138413. *Molokai 5549.*

138414. *Molokai 5698.*

138415. *31-1389. POJ 2878 × 26C-270.*

**138416. CAESALPINIA SPINOSA (Mol.) Kuntze. (*Caesalpinia pectinata* Cav.) Caesalpinaceae. Tara.**

From Peru. Seeds presented by R. W. Frey, Bureau of Agricultural Chemistry and Engineering, through A. F. Sievers, Division of Drug and Related Plants, Bureau of Plant Industry. Received July 19, 1940.

*Tara.* A tall upright spiny shrub or small tree, often used as a hedge in Peru. The foliage is deep green, with the leaflets smooth and polished on the upper surface. The greenish-yellow flowers, in cylindrical open spikes, are not very conspicuous, but the pods are produced in large clusters and the exposed surfaces show bright scarlet for a long time before maturing. The pods contain a high percentage of tannin.

For previous introduction see 65915.

**138417 to 138450. CARTHAMUS TINCTORIUS L. Asteraceae. Safflower.**

From India. Seeds presented by B. P. Pal, Imperial Economic Botanist, New Delhi. Received July 18, 1940.

138417. <i>I. P. Type No. 1.</i>	138434. <i>I. P. Type No. 18.</i>
138418. <i>I. P. Type No. 2.</i>	138435. <i>I. P. Type No. 19.</i>
138419. <i>I. P. Type No. 3.</i>	138436. <i>I. P. Type No. 20.</i>
138420. <i>I. P. Type No. 4.</i>	138437. <i>I. P. Type No. 21.</i>
138421. <i>I. P. Type No. 5.</i>	138438. <i>I. P. Type No. 22.</i>
138422. <i>I. P. Type No. 6.</i>	138439. <i>I. P. Type No. 23.</i>
138423. <i>I. P. Type No. 7.</i>	138440. <i>I. P. Type No. 24.</i>
138424. <i>I. P. Type No. 8.</i>	138441. <i>I. P. Type No. 25.</i>
138425. <i>I. P. Type No. 9.</i>	138442. <i>I. P. Type No. 26.</i>
138426. <i>I. P. Type No. 10.</i>	138443. <i>I. P. Type No. 27.</i>
138427. <i>I. P. Type No. 11.</i>	138444. <i>I. P. Type No. 28.</i>
138428. <i>I. P. Type No. 12.</i>	138445. <i>I. P. Type No. 29.</i>
138429. <i>I. P. Type No. 13.</i>	138446. <i>I. P. Type No. 30.</i>
138430. <i>I. P. Type No. 14.</i>	138447. <i>I. P. Type No. 31.</i>
138431. <i>I. P. Type No. 15.</i>	138448. <i>I. P. Type No. 32.</i>
138432. <i>I. P. Type No. 16.</i>	138449. <i>I. P. Type No. 33.</i>
138433. <i>I. P. Type No. 17.</i>	138450. <i>I. P. Type No. 34.</i>

**138451. THEOBROMA sp. Sterculiaceae.**

From Brazil. Seeds presented by the Bureau of Entomology and Plant Quarantine, United States Department of Agriculture, Washington, D. C. Received July 18, 1940.

**138452. CARISSA GRANDIFLORA (E. Mey.) DC. Apocynaceae.****Carissa.**

From Florida. Growing at the Plant Introduction Garden, Coconut Grove. Numbered July 25, 1940.

Seedlings of the Gifford variety, P. I. 131889.

For previous introduction see 99404.

**138453 and 138454. TRITICUM AESTIVUM L. Poaceae.****Common wheat.**

From Australia. Seeds presented by H. Wenzel, Department of Agriculture, Sydney, New South Wales. Received July 29, 1940.

138453. *Garra. C 3955.*

138454. *Hofed 1.*

**138455. GOSSYPIUM. Malvaceae.****Cotton.**

From the British West Indies. Seeds presented by Dr. R. A. Silow, Plant Geneticist, Cotton Research Station, Trinidad. Received July 29, 1940.

*Red Sea Island. C. B. 1404.*

**138456 to 138461. DIGITARIA spp. Poaceae.****Grass.**

From the Union of South Africa. Seeds presented by W. P. May, Officer in Charge, Rietondale Pasture Research Station, Pretoria. Received July 22, 1940.

138456. *DIGITARIA sp.*

*Goha Hills Strain No. 20.*

138457. *DIGITARIA sp.*

*Goha Hills Strain No. 21.*

138458. *DIGITARIA sp.*

*N'Gamiland Strain (mixed).*

138459. *DIGITARIA sp.*

*Rust der Winter Strain.*

138460. *DIGITARIA SMUTSII Stent.*

For previous introduction see 133901.

138461. *DIGITARIA SWAZILANDENSIS Stent.*

For previous introduction see 111108.

**138462. TRIFOLIUM ALEXANDRINUM L. Fabaceae.****Berseem.**

From India. Seeds presented by B. P. Pal, Imperial Economic Botanist, Imperial Agricultural Research Institute, New Delhi. Received July 24, 1940.

For previous introduction see 137021.

**138463 to 138469. LILIUM spp. Liliaceae.****Lily.**

From India. Seeds presented by Mrs. P. Kohli, Baramula, Kashmir. Received July 24, 1940.

138463. *LILIUM BAKERIANUM Coll. and Hemsl.*

## 138463 to 138469—Continued

A herbaceous perennial with purple-tinged white bulbs, slender erect stems 3 feet high, scattered linear-lanceolate leaves, and one to six fragrant nodding, bell-shaped, creamy, white flowers 2 to 3 inches across, spotted red brown on the inside. Native to Burma and western China.

For previous introduction see 133353.

138464. *LILIUM GIGANTEUM* Wall.

Giant lily.

A Himalayan lily, with bulbs that grow close to the surface in rich black mold, at altitudes of 7,500 to 9,000 feet, where they are covered with snow from November to April. The plants are 6 to 9 feet high, and the smooth hollow stems are used for musical pipes. The handsome cordate leaves, shining dark green above and paler beneath, are 10 to 12 inches long on petioles of equal length; both become smaller near the apex.

For previous introduction see 129244.

138465. *LILIUM NEPALENSE* D. Don.

Lily.

A showy lily, native to the central Himalayas, with a slender erect stem 2 to 3 feet long, leafy to the inflorescence. The glossy, bright-green leaves, 4 to 6 inches long, are oblong-lanceolate and five-ribbed. The flowers, 4 to 5 inches long, are greenish yellow outside and yellow within and flushed, except in the upper third, with purplish black.

For previous introduction see 133114.

138466. *LILIUM OCHRACEUM* Franch.

A rare and beautiful lily from Burma, not hardy except in the most favorable districts; it is an admirable cool greenhouse plant. This is a very variable species, producing flowers that range in color from deep golden yellow to pale yellow stained in varying degrees with deep wine purple.

For previous introduction see 133354.

138467. *LILIUM POLYPHYLLUM* D. Don.

A lily with a stoloniferous white pink-tinged bulb, a green stem 4 to 5 feet high, and fairly numerous scattered linear to oblong-lanceolate leaves 2 to 8 inches long. The fragrant nodding flowers, 2 to 12 in a lax umbel or raceme, are dull yellowish green outside, marble-white-spotted, and streaked with purple within, and are 2 to 3 inches across.

For previous introduction see 133116.

138468. *LILIUM WALLICHIANUM* Schult. f.

Wallich lily.

A lily 4 to 6 feet high, with linear leaves 6 to 9 inches long, and usually solitary, creamy waxy-white, fragrant flowers 9 inches long that are golden yellow to the base inside and green outside.

For previous introduction see 133117.

138469. *LILIUM THOMSONIANUM* (D. Don) Lindl. (*L. roseum* Wall.).

Thomson lily.

A bulbous plant, with an erect stem more than a foot high and narrow grasslike leaves, mostly crowded at the base of the stem. The pale-mauve or rosy, bell-shaped, drooping flowers with deep-purple anthers are more than an inch long and in a terminal raceme containing 8 to 10 flowers.

For previous introduction see 126543.

## 138470 to 138472.

From South America. Seeds presented by John J. Hamilton, Washington, D. C. Received July 29, 1940.

From Puerto Montt, Chile.

138470. *GREIGIA SPHACELATA* (Ruiz and Pav.) Regel. Bromeliaceae.

138470 to 138472—Continued

138471 and 138472. *VICIA FABA* L. Fabaceae.

Broadbean.

138471. No. 1.

138472. No. 2.

138473 to 138477. *HEVEA BRASILIENSIS* (H.B.K.) Muell. Arg.

Euphorbiaceae.

Para rubbertree.

From Haiti. Seeds presented by H. F. Loomis, Port-au-Prince. Received July 30, 1940.

138473. No. 20.

138476. No. 76.

138474. No. 54.

138477. No. 87.

138475. No. 58.

For previous introduction see 136897.

138478. *OLEA LAURIFOLIA* Lam. Oleaceae.

From the Union of South Africa. Seeds presented by the Division of Plant Industry, Department of Agriculture, Pretoria. Received July 31, 1940.

For previous introduction see 9123.

138479 to 138482. *GOSSYPIUM*. Malvaceae.

Cotton.

From Egypt. Seeds from Oman. Received August 1, 1940. Received without name of donor.

138479. *Ashmouni*.

138481. *Giza 12*.

138480. *Giza 7*.

138482. *Sakha 4*.

138483. *INOCARPUS EDULIS* Forst. Fabaceae.

From the Society Islands. Seeds presented by the Jardin des Plantes, Papeete, Tahiti. Received June 13, 1939.

For previous introduction see 38135.

138484. *SCILLA SIBIRICA* Andr. Liliaceae.

From Turkey. Bulbs presented by Hanna Boutros, Mersine. Received August 3, 1940.

138485 and 138486.

From Asia. Seeds collected by the Archbold-Fairchild Expedition. Numbered in July, 1940.

138485. *ONCOSPERMA* sp. Phoenicaceae.

Palm.

No. 3403. From Doembaya, Forontola, Celebes, Dutch East Indies, March 8, 1940. A large spiny-stemmed palm up to 90 feet high, with pinnate leaves 16 to 20 feet long, the midrib spiny. The very numerous purplish-black fruits, about 1 inch in diameter, are borne on a spectacular branched orange inflorescence.

138486. *ZINGIBER SYLVATICUM* Elmer. Zingiberaceae.

Ginger.

No. 61. From Tandoc, Camarines Sur, Luzon, Philippine Islands, November 28, 1939. An ornamental ginger, with attractive orange fruits borne in clusters with slender drooping stems.

138487. *PSIDIUM* sp. Myrtaceae.

From Mexico. Seeds presented by Thos. Hall, Hermosillo, Sonora. Received August 3, 1940.

138488. *HEVEA BRASILIENSIS* (H.B.K.) Muell. Arg.

Euphorbiaceae.

Para rubber tree.

From Haiti. Seeds presented by H. F. Loomis, Port-au-Prince. Received August 6, 1940.

For previous introduction see 138477.

138489. *ACER* sp. Aceraceae.

From Iran. Seeds collected by Walter Koelz, Tehran. Received July 3, 1940.

No. 5467. *Kahakom*. From Dehidisk, February 2, 1940. A small, dense, attractive tree, growing on dry slopes.

## 138490 to 138502.

From Iran. Seeds and bulbs presented by Walter Koelz, agent, Bureau of Plant Industry, United States Department of Agriculture. Received July 3, 1940.

138490. *CLEMATIS* sp. Ranunculaceae.

No. 5394. From Chaharfarsakh, Kirman, January 15, 1940. A weak shrub, 4 feet high, found growing at the edge of an orange garden.

138491. *GENTIANA* sp. Gentianaceae.

Gentian.

No. 5765. From Niriz, Fars, March 30, 1940, at an altitude of about 10,000 feet. A biennial or perennial, in clumps 8 to 10 inches high, with deep-blue flowers, whitish within and often fragrant.

138492. *IRIS* sp. Iridaceae.

No. 5881. From Eglit, Fars, March 8, 1940. A rare iris, about 4 inches high, with broad, white-veined leaves. The flowers, up to 3 inches across, are mother-of-pearl and blue purple with paler edges. The falls have yellow centers and are marked with deep purple.

138493. *IRIS* sp.

No. 5882. From Takhto Jamshid, Fars, March 12, 1940, on a dry mountain slope. A wild iris, in clumps up to 18 inches high, with grasslike leaves and small purple flowers 1 inch across.

138494. *MALVA* sp. Malvaceae.

No. 5735. From Jahrum, Fars, March 22, 1940. A garden weed, either prostrate or erect and 18 inches high, with rose-colored flowers.

138495. *MALVA* sp.

No. 5866. From Bushire, Fars, April 14, 1940. A prostrate plant, in mats often 3 feet across, with pale-pink flowers.

138496. *MUSCARI* sp. Liliaceae.

No. 5872. From Shiraz, Fars, April 6, 1940. A plant about 8 inches high, often growing on walls and roofs; flowers purplish blue.

138497. *NARCISSUS* sp. Amaryllidaceae.

No. 5874. *Narghiz*. From Kazerun, Fars, April 11, 1940. A fall-blooming, cultivated narcissus; the fragrant flowers have yellow cups. Said to be wild in the Jamalbareh Mountains.

138498. *PAPAVER* sp. Papaveraceae.

Poppy.

No. 5833. From Kazerun, Fars, April 11, 1940. A poppy about 4 feet high, with white or dull-purple flowers about 4 inches across.

138499. *RHEUM* sp. Polygonaceae.

No. 5321. *Rupas*. From Kirman, Kirman Province, January 3, 1940. A wild species from dry mountain areas.

138500. *TYPHA* sp. Typhaceae.

## 138490 to 138502—Continued

No. 5220. From Teserj, Kirman, December 24, 1939. A plant 6 feet high, with leaves  $\frac{1}{2}$  to  $\frac{3}{4}$  inch wide and spikes about 8 inches long.

138501. *VIOLA* sp. Violaceae.

Violet.

No. 5550. From Cheshmaeduzdan, February 8, 1940. A rare, tiny plant, about 1 inch high, growing among stones on a dry plain, damp in winter but dry all summer. The flowers are small and lavender.

138502. *VIOLA* sp.

Violet.

No. 5819. *Banafsh*. From Shiraz, Fars, April 4, 1940. A violet from the garden of the British Consulate. Said to have purple, fragrant flowers.

138503. *AXONOPUS PURPUSII* (Mez) Chase. Poaceae. Grass.

From Venezuela. Plants collected in Barcelona by A. G. Sandoval, Soil Conservation Service, United States Department of Agriculture. Received August 7, 1940.

138504. *VALLARIS SOLANACEA* (Roth) Kuntze. Apocynaceae.

From Florida. Plant presented in 1926 by the Royal Palm Nurseries, Oneco. Numbered August 10, 1940.

A handsome large woody vine, with deep-green shining foliage, native to India. In Florida the creamy-white cup-shaped flowers, about  $\frac{3}{8}$  inch across, are usually produced twice a year, in March and April and again in September and October.

138505. *JACARANDA SAGRAEANA* DC. Bignoniaceae.

From Cuba. Seeds presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received August 6, 1940.

A tropical tree, with bipinnate leaves, the leaflets oval-rhomboid, and lax terminal panicles of bluish flowers. Native to Cuba.

138506. *ALOE LONGIBRACTEATA* Pole Evans. Liliaceae.

From New Zealand. Seeds presented by A. Wilkinson, Nelson. Received April 13, 1933. Numbered August 12, 1940.

A stemless aloe, with a dense spreading rosette of 20 to 30 very fleshy, triangular-lanceolate leaves 4 to 8 inches long, dark green above or reddish with pale-green spots or stripes, and light green below. The leaf margins are beset with short deltoid horny teeth. The deep-pink flowers, nearly 2 inches long, are in dense racemes on a branched inflorescence 2½ feet high. Native to the Transvaal at an altitude of about 6,000 feet.

138507 to 138688.

From Iran. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received July 1, 1940.

138507 to 138509. *ABELMOSCHUS ESCULENTUS* (L.) Moench. Malvaceae.

Okra.

138507. No. 5197. *Bamia*. From Isin, December 18, 1939. The green pods are about 6 inches long.

138508. No. 5400. *Bamia*. From Kirman, Kirman, January 21, 1940. An assortment from the local market.

138509. No. 5814. *Bamia*. From Shiraz, Fars, April 3, 1940. A very rare variety in that section of the country.

138510. *ALLIUM ASCALONICUM* L. Liliaceae.

Shallot.

No. 5273. From Saidabad, Kirman, December 31, 1939.

For previous introduction see 116715.

## 138507 to 138688—Continued

138511 to 138526. *ALLIUM CEPA* L. Liliaceae.

Onion.

*Piyaz* is the vernacular name for onion in Iran.

138511. No. 5186. From Isin, December 17, 1939. A white, globose onion; both alkaline and heat-tolerant.

138512. No. 5306. From Saidabad, Kirman, January 1, 1940. The onions on the market were flat and of the three common colors.

138513. No. 5341. From Kirman, Kirman, January 4, 1940. Said to be a flat, red sort.

138514. No. 5369. From Khabis, Kirman, January 10, 1940.

138515. No. 5416. From Bam, January 25, 1940. A mild onion, flattened to globose; yellow and white.

138516. No. 5507. From Tomogaon, February 5, 1940.

138517. No. 5528. From Tomogaon, February 7, 1940. A dry, sweet onion, with extraordinary mildness, flat, ranging from very small to about 3 inches in diameter; red, white, and yellow.

138518. No. 5551. From Guragan, February 10, 1940.

138519. No. 5590. From Yezd, February 21, 1940. Flat to semiglobose; red and white; unusually tender and not too strong.

138520. No. 5600. From Dehibala, Shirkuh, February 22, 1940. Flat, very tender but strong onion; red or white.

138521. No. 5636. From Isfahan, February 27, 1940. A red, flat variety.

138522. No. 5679. From Eglit, Fars, March 8, 1940. A flat, white onion up to 4 inches in diameter and very strong.

138523. No. 5713. From Shiraz, Fars, March 15, 1940. The onions seen on the market were globose, red, and rather mild.

138524. No. 5739. From Jahrum, Fars, March 24, 1940. A green onion, rather strong.

138525. No. 5768. From Niriz, Fars, March 30, 1940. A flat, red, rather strong variety.

138526. No. 5846. From Kazerun, Fars, April 11, 1940.

138527 to 138537. *ALLIUM PORRUM* L. Liliaceae.

Leek.

138527. No. 5207. *Gandana*. From Bandar, Abbas, December 20, 1939.138528. No. 5270. *Gandana* or *Tare*. From Saidabad, Kirman, December 31, 1939.138529. No. 5320. *Gandana* or *Tare*. From Kirman, Kirman, January 3, 1940.138530. No. 5378. *Gandana*. From Khabis, Kirman, January 11, 1940.138531. No. 5583. *Tare*. From Yezd, February 20, 1940.138532. No. 5635. *Tare*. From Isfahan, February 27, 1940.138533. No. 5680. *Tare*. From Eglit, Fars, March 8, 1940.138534. No. 5781. *Gandana*. From Niriz, Fars, March 30, 1940.138535. No. 5809. *Gandana*. From Shiraz, Fars, April 3, 1940.138536. No. 5840. *Gandana*. From Kazerun, Fars, April 11, 1940.138537. No. 5870. *Gandana*. From Bushire, Fars, April 15, 1940.138538 and 138539. *ALLIUM* spp. Liliaceae.138538. *ALLIUM* sp.



## 138507 to 138688—Continued

No. 5560. From Maskun, February 12, 1940. An allium 3½ to 4 feet high, with umbel 2 inches across.

138539. *ALLIUM* sp.

No. 5776. From Niriz, Fars, March 30, 1940. An allium about 2 feet high, with a head about 2½ inches across.

138540 to 138555. *BETA VULGARIS* L. Chenopodiaceae.

*Chokondas* is the vernacular name for the beet in Iran.

138540. No. 5199. From Bandar Abbas, December 20, 1939.

138541. No. 5264. From Saidabad, Kirman, December 31, 1939.

138542. No. 5325. From Kirman, Kirman, January 3, 1940. Red and globose; turns yellow when cooked; tender and sweet.

138543. No. 5379. From Khabis, Kirman, January 11, 1940. Roots are purple red outside and yellow inside; sweet, not fibrous. Tops good for potherb.

138544. No. 5414. From Bam, January 25, 1940. A fine quality beet, flattened to globose; red or yellow, no fiber.

138545. No. 5483. From Tomogaon, February 4, 1940. Used only as greens.

138546. No. 5574. From Yezd, Kirman, February 20, 1940. Red and yellow outside, flesh yellow to pale red. Globose with a diameter about 5 inches.

138547. No. 5603. From Dehibala, Ehirkuh. Flat, yellow and red purple.

138548. No. 5618. From Taft, February 23, 1940. Flat, yellow to red purple, and 6 inches in diameter. No fiber, tender and low in sugar.

138549. No. 5639. From Isfahan, March 3, 1940. Semiglobose, red purple inside; often fibrous and rather sweet.

138550. No. 5686. From Eglit, Fars, March 8, 1940. Flat, purple inside and out; no fiber, very hard to cook, and rather low in sugar.

138551. No. 5707. *Shakari*. From Persepolis, March 12, 1940.

138552. No. 5717. From Shiraz, Fars, March 15, 1940. Semiglobose, reddish throughout, and no fiber.

138553. No. 5737. From Jahrum, Fars, March 23, 1940.

138554. No. 5749. From Niriz, Fars, March 23, 1940. Rough, globose to semiglobose, reddish outside and yellow inside; free from fiber.

138555. No. 5834. From Kazerun, Fars, April 11, 1940.

138556 to 138567. *CAPSICUM FRUTESCENS* L. Solanaceae.

## Common redpepper.

138556. No. 5190. *Filfil*. From Isin, December 17, 1939. Fruit 2 to 3 inches in diameter, red, hot, and tender-skinned. A bushy perennial 4 feet high.

138557. No. 5210. *Filfil-i-surkh*. From Banda Abbas, December 20, 1939. Fruit 2 inches by 1 inch, red, and rather mild. Probably from upcountry.

138558. No. 5316. *Filfil-i-hind*. From Saidabad, Kirman, January 1, 1940. An elongated, bullnose, red, hot pepper, about 2 inches long.

138559. No. 5329. *Filfil-i-hind*. From Kirman, Kirman, January 4, 1940. A red, hot pepper about 2½ inches long.

138560. No. 5383. *Filfil-i-farangi*. From Khabis, Kirman, January 11, 1940. A rare, spicy pepper in that section of the country.

138561. No. 5437. *Filfil-i-hind*. From Bam, January 26, 1940. A small, crimson pepper with a diameter of 1 inch, hot.

## 138507 to 138688—Continued

138562. No. 5439. *Filfil-i-hind*. From Bam, January 26, 1940. A small, scarlet pepper, hot.
138563. No. 5578. *Filfil-i-hind*. From Yezd, February 20, 1940. Red; hot.
138564. No. 5657. *Filfil-i-farangi*. From Isfahan, March 4, 1940. A red, sweet pepper about 4 inches long.
138565. No. 5726. *Filfil-i-hind*. From Jahrum, Fars, March 20, 1940. A red, rather mild pepper about 1½ inches long.
138566. No. 5756. *Filfil-i-hind*. From Niriz, Fars, March 29, 1940. An elongated, red, hot pepper.
138567. No. 5818. *Filfil-i-hind*. From Shiraz, Fars, April 4, 1940. A red, hot pepper, 1½ inches long.

## 138568. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

No. 5851. *Dak*. From Kazerun, Fars, April 11, 1940. Said to be a green cucumber.

For previous introduction see 137833.

## 138569 to 138583. DAUCUS CAROTA L. Apiaceae. Carrot.

138569. No. 5200. *Gajas*. From Banda Abbas, December 20, 1939. Said to be of mixed sorts.
138570. No. 5348. *Havij-i-siya*. From Kirman, Kirman, January 5, 1940. Said to be the long black-purple variety; often a foot long and smooth.
138571. No. 5395. From Chaharfarsakh, Kirman, January 15, 1940. Found wild in gardens, up to 4 feet long.
138572. No. 5418. *Havij, Gajar, or Zardak*. From Bam, January 25, 1940. Roots pale yellow to red purple; tender and sweet.
138573. No. 5484. *Havij*. From Tomogaon, February 4, 1940. Roots pale yellow or purplish and 8 inches by 1 inch; good quality.
138574. No. 5530. *Havij*. From Tomogaon, February 8, 1940.
138575. No. 5581. *Havij*. From Yezd, Kirman, February 20, 1940. Carrots are smooth, yellow, 15 inches long with a diameter of 4 inches. Tender, no fiber, not strong, but rather low in sugar.
138576. No. 5610. *Zardak*. From Dehibala, Shirkuh, February 22, 1940. Remarkably smooth, pale yellow to a purplish tone; very tender, but not very strong and does not contain much sugar.
138577. No. 5659. *Zardak*. From Isfahan, March 4, 1940. Well formed, up to 15 inches long; smooth, deep yellow, no fiber, rather low in sugar.
138578. No. 5685. *Tavij*. From Eglit, Fars Province, March 8, 1940. Irregular and rooty formed, purplish, without fiber, tender, and low in sugar.
138579. No. 5719. *Zardak*. From Shiraz, Fars, March 15, 1940. Well shaped, about 1 foot long, yellow-orange, rather sweet.
138580. No. 5732. *Nargisi*. From Jahrum, Fars, March 21, 1940.
138581. No. 5754. *Narkasi*. From Niriz, Fars, March 29, 1940. A yellow, free from fiber, carrot that contains very little sugar.
138582. No. 5836. *Narghizi*. From Kazerun, Fars, April 11, 1940.
138583. No. 5328. *Havij or Gajar*. From Kirman, Kirman, January 4, 1940. Said to be of the long, yellow variety.

## 138584 to 138598. LACTUCA SATIVA L. Cichoriaceae. Garden lettuce.

*Kahu* is the vernacular name for lettuce in Iran.

## 138507 to 138688—Continued

138584. No. 5194. From Isin, December 17, 1939. Planted in the alkaline soil of the gardens; said to make a loose head.
138585. No. 5276. From Saidabad, Kirman, January 1, 1940.
138586. No. 5318. From Kirman, Kirman, January 1, 1940.
138587. No. 5381. From Khabis, Kirman, January 11, 1940.
138588. No. 5441. From Bam, January 26, 1940.
138589. No. 5490. From Tomogaon, February 4, 1940.
138590. No. 5537. From Guragan, February 10, 1940.
138591. No. 5575. From Yeزد, Kirman, February 20, 1940.
138592. No. 5649. From Isfahan, March 1, 1940. Small, but longleaved variety.
138593. No. 5696. From Eglit, Fars Province, March 8, 1940.
138594. No. 5718. From Shiraz, Fars, March 15, 1940. Longleaved with purplish tips.
138595. No. 5728. From Jahrum, Fars Province, March 20, 1940. A Cos type of lettuce, with a diameter of 18 inches and red-tipped leaves. Little milk, sweet, and tasty.
138596. No. 5779. From Niriz, Fars, March 30, 1940. A Cos type of lettuce, 15 inches long, green, and tender; no particular flavor.
138597. No. 5812. From Shiraz, Fars, April 3, 1940.
138598. No. 5883. From Bushire, Fars, April 14, 1940. Leafy, green, exceptionally good.
- 138599 to 138616. *LAGENARIA LEUCANTHA* (Duchesne) Rusby.  
Cucurbitaceae. **Calabash gourd.**
138599. No. 5187. *Kadu azar*. From Isin, December 17, 1939.
138600. No. 5215. From Bandar Abbas, December 21, 1939.
138601. No. 5216. *Kadu-i-auzar*. From Bandar Abbas, December 21, 1939. Bottle-shaped; 20 inches long.
138602. No. 5249. *Kadui Mandel*. From Balvard, Kirman, December 20, 1939. 14 inches high; said to be edible.
138603. No. 5303. *Kadui Kaliani*. From Saidabad, Kirman, January 1, 1940. Said to be an ornamental sort with an inflated knob on the neck.
138604. No. 5372. *Kadui doghabi*. From Khabis, Kirman, January 11, 1940. One foot long, with a short, thick neck.
138605. No. 5399. *Kaduekal'iani*. From Kirman, Kirman, January 21, 1940.
138606. No. 5479. From Tomogaon, February 4, 1940.
138607. No. 5480. From Tomogaon, February 4, 1940.
138608. No. 5531. From Tomogaon, February 8, 1940.
138609. No. 5569. From Bahramabad, Kirman, February 18, 1940. Ornamental; 16 inches long.
138610. No. 5589. From Yeزد, February 21, 1940.
138611. No. 5624. From Taft, February 23, 1940. Said to be of edible sort.
138612. No. 5661. *Kadu Kalyani*. From Isfahan, March 4, 1940. Said to be edible.
138613. No. 5691. *Kaduekalyani*. From Eglit, Province of Fars, March 8, 1940.

## 138507 to 138688—Continued

138614. No. 5746. From Jahrum, Fars, March 25, 1940.
138615. No. 5767. From Niriz, Fars Province, March 30, 1940.
138616. No. 5792. *Kaduekelyani*. From Eglit, Fars, March 9, 1940. One foot long, probably edible when tender.
- 138617 to 138631. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**  
*Goj-i-farangi* is the vernacular name for tomato in Iran.
138617. No. 5309. From Saidabad, Kirman, January 1, 1940. Flat, red, 2 inches in diameter.
138618. No. 5331. From Kirman, Kirman, January 4, 1940. Said to be red.
138619. No. 5362. From Chaharbarsakh, Kirman, January 9, 1940. Well-grown, spreading, 7 feet across; red, globose.
138620. No. 5422. From Bam, January 25, 1940. Red, flat, 3 inches long.
138621. No. 5435. From Bam, January 25, 1940. Mixture of red and yellow sorts.
138622. No. 5476. From Tomogaon, February 3, 1940.
138623. No. 5552. From Guragan, February 10, 1940. Globose, red, 2 inches in diameter.
138624. No. 5594. From Yezd, February 21, 1940. Small, red, 2 inches or larger in diameter.
138625. No. 5654. From Isfahan, March 2, 1940.
138626. No. 5684. From Eglit, Fars, March 8, 1940. Flat, 3½ inches in diameter, red.
138627. No. 5687. From Eglit, Fars, March 8, 1940.
138628. No. 5716. From Shiraz, Fars, March 15, 1940. Said to be red.
138629. No. 5788. From Niriz, Fars, March 30, 1940.
138630. No. 5839. From Kazerun, Fars, April 11, 1940.
138631. No. 5539. From Guragan, February 10, 1940.
- 138632 to 138651. *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**
138632. No. 5191. *Muli*. From Isin, December 19, 1939.
138633. No. 5213. *Muli*. From Bandar Abbas, December 21, 1939.
- Nos. 138634 to 138651. *Torob* is the vernacular name for radish in Iran.
138634. No. 5277. From Saidabad, Kirman, January 1, 1940. Possibly has a black root.
138635. No. 5295. From Saidabad, Kirman, January 1, 1940.
138636. No. 5296. From Saidabad, January 1, 1940.
138637. No. 5330. From Kirman, Kirman, January 4, 1940.
138638. No. 5346. From Kirman, Kirman, January 5, 1940.
138639. No. 5371. From Khabis, Kirman, January 10, 1940. Long, white, 1 foot by 6 inches.
138640. No. 5425. From Bam, January 25, 1940.
138641. No. 5438. From Bam, January 26, 1940.
138642. No. 5491. From Tomogaon, February 4, 1940.
138643. No. 5576. From Yezd, Kirman, February 20, 1940. Globose, black, 4 inches across.
138644. No. 5641. From Isfahan, February 27, 1940. Said to be a small, globose, red spring radish, such as is now on the market.

## 138507 to 138688—Continued

138645. No. 5678. From Eglit, Fars, March 8, 1940. Said to be medium-sized, black-and-white winter radish.

138646. No. 5720. From Shiraz, Fars, March 15, 1940.

138647. No. 5806. From Shiraz, Fars, April 3, 1940.

138648. No. 5743. From Jahrum, Fars, March 25, 1940.

138649. No. 5777. From Niriz, Fars, March 30, 1940. Said to be mixed black-and-white winter sorts.

138650. No. 5838. From Kazerun, Fars, April 11, 1940.

138651. No. 5855. From Bushire, Fars, April 14, 1940.

## 138652 to 138665. SOLANUM MELONGENA L. Solanaceae. Eggplant.

*Benjan* is the vernacular name for eggplant in Iran.

138652. No. 5178. From Isin, Laristan, December 17, 1939. Purple, elongated, about 1 foot long.

138653. No. 5304. From Saidabad, Kirman, January 1, 1940.

138654. No. 5350. From Kirman, Kirman, January 5, 1940. Round, purple.

138655. No. 5386. From Khakis, Kirman, January 11, 1940. From 8 to 10 inches long, elongated, purple. Said to be perennial here for several years.

138656. No. 5406. From Chabarfersakh, Kirman, January 16, 1950. Purple, 6 by 3 inches.

138657. No. 5407. From Kirman, Kirman, January 22, 1940. Said to be globose, purple sort, 8 inches long.

138658. No. 5489. From Tomogaon, February 4, 1940.

138659. No. 5543. From Guragan, February 10, 1940. 10 inches long.

138660. No. 5652. From Isfahan, March 2, 1940. Long, purple sort.

138661. No. 5742. From Jahrum, Fars, March 24, 1940.

138662. No. 5773. From Niriz, Fars, March 30, 1940.

138663. No. 5802. From Shiraz, Fars, April 2, 1940.

138664. No. 5803. From Shiraz, Fars, April 2, 1940. Said to be white egg sort.

138665. No. 5832. From Kazerun, Fars, April 11, 1940.

## 138666 and 138667. SOLANUM sp. Solanaceae.

138666. No. 5351. *Arusac*. From Kirman, Kirman, January 5, 1940. Said to be a fruit of a wild herb, used medically.

138667. No. 5736. From Jahrum, Fars, March 22, 1940. Garden weed, yellow fruits.

## 138668 to 138684. SPINACIA OLERACEA L. Chenopodiaceae.

Common spinach.

*Isfinaj* is the vernacular name for spinach in Iran.

138668. No. 5385. From Khabis, Kirman, January 11, 1940.

138669. No. 5402. From Kirman, Kirman, January 21, 1940.

138670. No. 5402-A. From Kirman, Kirman, January 21, 1940.

138671. No. 5577. From Yezd, Kirman, February 20, 1940. Young.

138672. No. 5611. From Dehibala, Shirkuh, February 22, 1940. Small.

138673. No. 5638. From Isfahan, February 27, 1940. Used as greens.

## 138507 to 138688—Continued

138674. No. 5211. *Palak*. From Bandar Abbas, December 21, 1939.

138675. No. 5475. From Tomogaon, February 3, 1940.

138676. No. 5475-A. Possibly different from No. 5475.

138677. No. 5375. From Khabis, Kirman, January 11, 1940.

138678. No. 5426. From Bam, January 25, 1940.

138679. No. 5724. From Jahrum, Fars, March 20, 1940.

138680. No. 5714. From Shiraz, Fars, March 15, 1940.

138681. No. 5800. From Shiraz, Fars, April 2, 1940.

138682. No. 5724-A. From Jahrum, Fars.

138683. No. 5614. From Taft, February 23, 1940. Small but well flavored.

138684. No. 5614-A. From Taft.

138685 to 138688. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. Fenugreek.

138685. No. 5740. *Shamlil*. From Jahrum, Fars, March 24, 1940. Used as greens.

138686. No. 5660. *Shamlil*. From Isfahan, March 4, 1940.

138687. No. 5804. *Shamlil*. From Shiraz, Fars, April 4, 1940.

138688. No. 5204. *Shambiri*. From Bandar Abbas, December 20, 1939. Used as potherbs.

138689. *LIGUSTRUM CILIATUM* Blume. Oleaceae.

From Japan. Seeds collected by Dorsett & Morse, Mowiyama Mountain, near Sapporo, Hokkaido. Received November 9, 1929. Numbered August 14, 1940.

A hardy shrub, up to 6 feet high, with black fruits. Native to Japan.

For previous introduction see 72875.

138690. *GERBERA ANANDRIA* (L.) Schultz Bip. Asteraceae.

From the Union of Soviet Socialist Republics. Seeds presented by the Mountain-Taiga Station, Far Eastern Branch of the Academy of Sciences, Voroshilov-Ussuriaky. Received December 3, 1937. Numbered August 14, 1940.

138691. *ALBIZZIA KALKORA* (Roxb.) Prain. Mimosaceae.

From North Carolina. Seeds presented by William A. Knight, Biltmore Forest, Biltmore. Received December 12, 1939. Numbered August 14, 1940.

An ornamental small tree, with finely pinnated leaves and flowers with pale pink tassels. Not very common.

138692. *PTYCHOSPERMA* sp. Phoenicaceae.

**Palm.**

From Maryland. Plants growing at the Plant Introduction Garden, Glenn Dale. Numbered August 14, 1940.

138693. *HEDERA NEPALENSIS* var. *SINENSIS* (Tobl.) Rehd.

*Araliaceae.*

From Maryland. Plants growing at the Plant Introduction Garden, Glenn Dale. Numbered August 14, 1940.

Plants originally received from the Arnold Arboretum, Jamaica Plain, Massachusetts.

## 138694 to 138775.

From Iran. Seeds presented by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received July 2, 1940.

## 138694 to 138775—Continued

138694. AVENA sp. Poaceae. Grass.

No. 5519. From Tomogaon, February 6, 1940.

138695. AVENA sp.

No. 5863. From Bushire, Fars, April 14, 1940. A weed found in grain-fields and elsewhere; grows up to 3 feet high.

138696. GOSSYPIUM. Malvaceae. Cotton.

No. 5368. *Pambaifilistani*. From Khabis, Kirman, January 10, 1940. Said to be a naturalized American sort that grows about 3 feet high.

138697. HIPPOCREPIS sp. Fabaceae.

No. 5858. From Bushire, Fars, April 14, 1940. A prostrate, ephemeral clover that grows in the winter rainy season.

138698 to 138729. HORDEUM spp. Poaceae. Barley.

138698 to 138716. HORDEUM VULGARE L.

*Jau* is the vernacular name for barley in Iran.

138698. No. 5195. From Isin, Laristan, December 17, 1939. Said to be fall-sown, watered little.

138699. No. 5227. From Teserj, Kirman, December 24, 1939.

138700. No. 5228. From Teserj, Kirman, December 24, 1939.

138701. No. 5251. From Balvard, Kirman, December 30, 1939. Said to be sown around January 15; irrigated.

138702. No. 5252. From Balvard, Kirman, December 30, 1939.

138703. No. 5222. From Saadatabad, Kirman, December 22, 1939.

138704. No. 5259. From Saidabad, Kirman, December 31, 1939.

138705. No. 5363. From Chaharfarsakh, Kirman, January 9, 1940.

138706. No. 5364. From Chaharfarsakh, Kirman, January 9, 1940.

138707. No. 5388. From Khabis, Kirman, January 11, 1940.

138708. No. 5410. From Kirman, Kirman, January 23, 1940. A sample from the market, contains "Jau siya," black barley.

138709. No. 5421. From Bam, January 25, 1940.

138710. No. 5447. From Dehidesk, February 1, 1940.

138711. No. 5473. From Tomogaon, February 3, 1940. Now 2 inches high; irrigated.

138712. No. 5510. From Dusari, February 6, 1940. Winter sown; irrigated.

138713. No. 5511. From Abbasabad, January 6, 1940.

138714. No. 5557. From Maskun, February 12, 1940.

138715. No. 5561. From Darzin, February 14, 1940.

138716. No. 5571. From Bahrabad, Kirman, February 18, 1940.

138717. HORDEUM DISTICHON L.

No. 5706. From Persepolis, Fars, March 11, 1940.

138718 to 138720. HORDEUM VULGARE L.

138718. No. 5608. From Dehibala, Shirkuh, February 22, 1940.

138719. No. 5615. From Taft, February 23, 1940.

138720. No. 5616. From Taft, February 23, 1940.

138721. HORDEUM DISTICHON L.

## 138694 to 138775—Continued

- No. 5662. From Isfahan, March 4, 1940.
138722. *HORDEUM VULGARE* L.  
No. 5703. From Surmag, Fars, March 8, 1940.
- 138723 to 138725. *HORDEUM DISTICHON* L.  
138723. No. 5729. From Jarhum, Fars, March 21, 1940.  
138724. No. 5830. From Dast Arjin, Fars, April 9, 1940.  
138725. No. 5766. From Niriz, Fars, March 30, 1940.
138726. *HORDEUM VULGARE* L.  
No. 5672. From Eglit, Fars, March 8, 1940.
138727. *HORDEUM DISTICHON* L.  
No. 5671. From Eglit, Fars, March 8, 1940.
- 138728 and 138729. *HORDEUM VULGARE* L.  
138728. No. 5862. *Jaoesiya*. From Bushire, Fars, April 14, 1940. Very rare; winter-sown.  
138729. No. 5877. From Bushire, Fars, April 15, 1940. A beardless form of the local barley.
- 138730 to 138732. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**  
138730. No. 5201. *Bargesh*. From Bandar Abbas, December 20, 1939. Oil crop.  
138731. No. 5268. *Ketane*. From Saidabad, Kirman, December 31, 1939. Oil crop.  
138732. No. 5522. From Tomogaon, February 7, 1940. Oil plant.
138733. *MEDICAGO LACINIATA* (L.) Mill. Fabaceae. **Medic.**  
No. 5859. From Bushire, Fars, April 14, 1940. An ephemeral, prostrate plant, dying down during the hot, dry summer.
138734. *MEDICAGO LITTORALIS* Rhode. Fabaceae. **Medic.**  
No. 5860. From Bushire, Fars, April 14, 1940. (Same note as for No. 5859.)
- 138735 to 138741. *MEDICAGO SATIVA* L. Fabaceae. **Alfalfa.**  
*Yonje* is the vernacular name for alfalfa in Iran.
138735. No. 5278. From Saidabad, Kirman, January 1, 1940.  
138736. No. 5367. From Khabis, Kirman, January 10, 1940.  
138737. No. 5417. From Bam, January 25, 1940. Said to be cut seven times, at height of about 4 feet.  
138738. No. 5468. From Dehidisk, February 2, 1940.  
138739. No. 5472. From Tomogaon, February 3, 1940.  
138740. No. 5694. From Eglit, Fars Province, March 8, 1940.  
138741. No. 5817. From Shiraz, Fars, April 3, 1940. Said to be cut five times a year, and to last 7 years.
138742. *MEDICAGO HISPIDA* Gaertn. Fabaceae. **Medic.**  
No. 5868. From Bushire, Fars Province, April 15, 1940.  
For previous introduction see 123924.
138743. *MELILOTUS ALBA* Desr. Fabaceae. **White sweetclover.**  
No. 5564. From Darzin, February 15, 1940. Taken from the crops of several sand grouse.



## 138694 to 138775—Continued

138744. *MELILOTUS INDICA* (L.) All. Fabaceae. Sweetclover.  
No. 5861. From Bushire, Fars, April 14, 1940. An ephemeral plant, from 8 to 12 inches high, growing in winter rainy season and dying down during the hot dry summer.
- 138745 to 138747. *PANICUM MILIACEUM* L. Poaceae. Broomcorn millet.  
138745. No. 5179. *Arzan*. From Isin, December 17, 1939. Common grain.  
138746. No. 5269. *Arzan*. From Saidabad, Kirman, December 31, 1939.  
138747. No. 5676. *Arzan*. From Eglit, Fars Province, March 8, 1940.
- 138748 and 138749. *SORGHUM VULGARE* Pers. Poaceae. Sorghum.  
138748. No. 5183. *Zorat*. From Isin, December 17, 1939. Receives very little water.  
138749. No. 5224. *Zaurakisufed*. From Saadatabad, Kirman, December 22, 1939.
- 138750 to 138752. *TRIFOLIUM SUAVEOLENS* Willd. Fabaceae. Fragrant clover.  
138750. No. 5585. *Yonje*. From Yezd, February 20, 1940. Adapted to a hot desert climate.  
138751. No. 5643. *Yonje*. From Isfahan, February 27, 1940. Adapted to a hot climate and winter frost.  
138752. No. 5653. *Shabdar*. From Isfahan, March 2, 1940. An annual or biennial clover.
138753. *TRIFOLIUM* sp. Fabaceae. Clover.  
No. 5302. From Balvard, Kirman, January 1, 1940. A low, creeping clover that grows in shallow watercourses. Said to be eaten only by horses.
- 138754 to 138763. *VICIA FABA* L. Fabaceae. Broadbean.  
*Bakla* is the vernacular name for the broadbean in Iran.  
138754. No. 5198. From Bandar Abbas, December 20, 1939.  
138755. No. 5307. From Saidabad, Kirman, January 1, 1940.  
138756. No. 5319. From Kirman, Kirman, January 3, 1940.  
138757. No. 5344. From Kirman, Kirman, January 4, 1940.  
138758. No. 5436. From Bam, January 25, 1940.  
138759. No. 5494. From Tomogaon, February 5, 1940.  
138760. No. 5607. From Dehibala, Shirkuh, February 22, 1940.  
138761. No. 5721. From Shiraz, Fars, March 15, 1940. Food crop, sown in fall.  
138762. No. 5727. From Jahrum, Fars, March 20, 1940.  
138763. No. 5759. From Niriz, Fars, March 29, 1940.
138764. *VIGNA CYLINDRICA* (Stickm.) Skeels. Fabaceae. Catjang.  
No. 5265. *Lobia*. From Saidabad, Kirman, December 31, 1939.
- 138765 to 138775. *VIGNA SINENSIS* (Torner) Hassk. Fabaceae. Cowpea.  
*Lobia* is the vernacular name for cowpea in Iran.  
138765. No. 5209. From Bandar Abbas, December 20, 1939.  
138766. No. 5374. From Khabis, Kirman, January 11, 1940.  
138767. No. 5376. From Khabiz, Kirman, January 11, 1940.  
138768. No. 5434. From Bam, January 25, 1940.

## 138694 to 138775—Continued

138769. No. 5456. From Dehidisk, February 1, 1940.  
 138770. No. 5457. From Dehidisk, February 1, 1940.  
 138771. No. 5482. From Tomogaon, February 4, 1940.  
 138772. No. 5533. From Tomogaon, February 8, 1940.  
 138773. No. 5547. From Guragan, February 10, 1940.  
 138774. No. 5745. From Jahrum, Fars, March 25, 1940.  
 138775. No. 5760. From Niriz, Fars, March 29, 1940.

## 138776 to 138783.

From South America. Seeds received from Bernardo Rosengurrt, Monzon Heber, Estación Jackson, Soriano, Uruguay. Received July 31, 1940.

138776. *ADESMIA BICOLOR* (Poir.) DC. Fabaceae.  
 For previous instruction see 92333.  
 138777. *ADESMIA LATIFOLIA* Vog. Fabaceae.  
 138778. *CALAMAGROSTIS VIRIDI-FLAVESCENS* (Poir.) Steud. Poaceae. Grass.  
 For previous introduction see 02333.  
 138779. *LOLIUM MULTIFLORUM* Lam. Poaceae. Italian ryegrass.  
 For previous introduction see 133475.  
 138780. *PANICUM DECIPIENS* Nees. Poaceae. Grass.  
 138781. *SETARIA ONURUS* (Willd.) Griseb. Poaceae. Grass.  
 For previous introduction see 62038.  
 138782. *SPOROBOLUS PSEUDO-AIROIDES* Parodi. Poaceae. Grass.  
 138783. *TRIFOLIUM POLYMORPHUM* Poir. Fabaceae.

## 138784 to 138849.

From Iran. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received July 3, 1940.

138784. *ACACIA* sp. Mimosaceae.  
 No. 5237. From Madenu, Kirman, December 26, 1939. A bushy, wide-spreading xerophytic tree, up to 10 feet high, with crimson pods.  
 138785. *ALTHAEA ROSEA* (L.) Cav. Malvaceae. Hollyhock.  
 No. 5290. *Khatni*. From Saidabad, Kirman, January 1, 1940. Plant about 4½ feet high; flowers single, cerise, 2½ inches across.  
 138786. *ARTEMISIA* sp. Asteraceae.  
 No. 5235. *Dormane* or *jaz*. From Dadenu, Kirman, December 25, 1939. Bush 18 inches high, with very few leaves.  
 138787. *ARUNDO DONAX* L. Poaceae. Giant reed.  
 No. 5359. From Fuz, Kirman, January 8, 1940. Found in clumps along a stream; 15 feet high.  
 138788. *ATRAPHAXIS* sp. Polygonaceae.  
 No. 5450. *Paten*. From Dehidisk, February 1, 1940. A dense shrub about 3 feet high; small leaves; browse plant.  
 138789 to 138791. *BERBERIS* spp. Berberidaceae.  
 138789. *BERBERIS* sp.  
 No. 5503. *Zareshk*. From Tomogaon, February 5, 1940. Well-formed bush up to 8 feet high; fruit crimson; used for jams.

## 138784 to 138849—Continued

## 138790. BERBERIS sp.

No. 5665. *Zareshk*. From Isfahan, March 5, 1940. Fruit red black when dry, used as medicine on local market.

## 138791. BERBERIS sp.

No. 5271. *Zereshk*. From Saidabad, Kirman, December 31, 1939. Found in dry foothills; grows in clumps up to 10 feet high.

138792 and 138793. AMMI COPTICUM L. (*Carum copticum* (L.) Benth. and Hook.) Apiaceae.

138792. No. 5180. *Auzmuda*. From Isin, December 17, 1929.

138793. No. 5313. *Zeman*. From Saidabad, Kirman, January 1, 1940.

For previous introduction see 126266.

## 138794 and 138795. CELOSIA spp. Amaranthaceae.

## 138794. CELOSIA sp.

No. 5305. *Tajikhurus*. From Saidabad, Kirman, January 1, 1940.

## 138795. CELOSIA sp.

No. 5508. From Tomogaon, February 5, 1940.

## 138796. CERCIS sp. Caesalpiniaceae.

No. 5345. *Arkawan*. From Kirman, Kirman, January 4, 1940. A dense, bushy attractive tree about 15 feet high; flowers rose, large for the genus.

## 138797. CORDIA MYXA L. Boraginaceae.

Sebesten.

No. 5352. *Gefistan* or *narfistan*. From Kirman, Kirman, January 5, 1940. An evergreen tree grown in gardens in warm places.

## 138798 to 138803. CORIANDRUM SATIVUM L. Apiaceae.

Coriander.

138798. No. 5640. *Gishniz*. From Isfahan, February 27, 1940. Spice and leaves used as relish.

138799. No. 5725. *Gishniz*. From Jahrum, Fars, March 20, 1940.

138800. No. 5223. *Gishniz*. From Saadatabad, Kirman, December 22, 1939.

138801. No. 5523. *Gishniz*. From Tomogaon, February 7, 1940. A green plant used for flavoring.

138802. No. 5310. *Gishniz*. From Saidabad, Kirman, January 1, 1940. Leaves and seeds used as a condiment.

138803. No. 5192. *Gishniz*. From Isin, December 17, 1939.

## 138804. CYMBOPOGON SCHOENANTHUS (L). Spreng. Poaceae. Camel-hay.

No. 5236. From Madenu, Kirman, December 25, 1939. Growing along dry gulches in clumps up to 15 feet.

## 138805. ELAEAGNUS ANGUSTIFOLIA L. Elaeaganaceae.

Russian-olive.

No. 5279. *Sinjit*. From Saidabad, Kirman, January 1, 1940. Cultivated for fruit, sold dried.

## 138806. ERUCA SATIVA Mill. Brassicaceae.

Rocket salad.

No. 5612. *Mandab*. From Taft, February 23, 1940. A strong bushy plant up to 2½ feet high, bearing pods heavily; oil from seeds used as lubricant.

## 138807 and 138808. FOENICULUM VULGARE Mill. Apiaceae.

Fennel.

138807. No. 5203. *Zira*. From Bandar Abbas, December 20, 1939.

138808. No. 5431. *Badion*. From Bam, January 25, 1940.

## 138809. FRAXINUS sp. Oleaceae.

Ash.

## 138784 to 138849—Continued

No. 5669. *Zabanigunjushk*. From Isfahan, March 6, 1940. A small, fast-growing tree planted along watercourses.

138810 to 138812. *HELIANTHUS ANNUUS* L. Asteraceae. Common sunflower.

138810. No. 5266. *Nimroz Gardan* or *Guli Khurskid*. From Saidabad, Kirman, December 31, 1939.

138811. No. 5453. *Rozgardan, anjuja*. From Dehidisk, February 1, 1940.

138812. No. 5481. *Rozgardan*. From Tomogaon, February 4, 1940.

138813. *HERACLEUM* sp. Apiaceae. Cow-parsnip.

No. 5343. *Golfar*. From Kirman, Kirman, January 4, 1940. Said to be a wild plant used for flavoring.

138814. *IRIS* sp. Iridaceae.

No. 5771. From Niriz, Fars, March 30, 1940, at an altitude of about 10,000 feet. Growing in clumps, with grasslike leaves and small blue-purple flowers, 1 inch long.

138815. *JUNIPERUS* sp. Pinaceae.

No. 5559. From Maskun, February 12, 1940, at an altitude of 8,000 feet. A large tree 4 feet in diameter, growing on dry slopes.

138816. *KOELERIA PHLEOIDES* (Vill.) Pers. Poaceae.

No. 5867. From Bushire, Fars, April 15, 1940. A low, bushy grass, 14 inches high, growing in winter rainy season.

138817. *LAWSONIA INERMIS* L. Lythraceae. Henna.

No. 5412. From Kirman, Kirman, January 23, 1940.

138818. *MENTHA* sp. Menthaceae.

No. 5342. *Marze*. From Kirman, Kirman, January 4, 1940. Said to be a potherb.

138819 to 138822. *OCIMUM* spp. Menthaceae.

138819 and 138820. *OCIMUM BASILICUM* var. *GLABRATUM* Benth.

138819. No. 5193. *Rehun*. From Isin, Laristan, December 17, 1939, at an altitude of 500 feet. A rather attractive plant, with large flowers; ornamental for its scented leaves.

138820. No. 5308. *Rehun*. From Saidabad, Kirman, January 1, 1940. Used as a condiment; attractive also because of its fragrant leaves.

138821. *OCIMUM BASILICUM* var. *MAJUS* Benth.

No. 5413. *Rehun*. From Kirman, Kirman, January 23, 1940.

138822. *OCIMUM BASILICUM* var. *ANISATUM* Benth.

No. 5783. *Rehun*. From Niriz, Fars, March 30, 1940.

138823. *PENNISETUM DICHOTOMUM* (Forsk.) Delile. Poaceae. Grass.

No. 5219. From Saadatabad, Kirman, December 23, 1939. Growing in clumps 3½ feet high at the edge of shallow gulches in the desert. Browsed by sheep and goats.

138824. *PETROSELINUM CRISPUM* (Mill.) Nym. (*P. hortense* Hoffmann). Apiaceae. Parsley.

No. 5289. *Jafri*. From Saidabad, Kirman, January 1, 1940.

138825 and 138826. *PETUNIA* spp. Solanaceae.

138825. *PETUNIA* sp.

No. 5291. *Atlase*. From Saidabad, Kirman, January 1, 1940. A bushy, open plant 1 foot high.

## 138784 to 138849—Continued

138826. *PETUNIA* sp.  
No. 5409. *Atlase*. From Kirman, Kirman, January 23, 1940. A low, spreading plant, about 1 foot high.
138827. *RHUS* sp. Anacardiaceae.  
No. 5466. *Samak*. From Bam, January 25, 1940. Used to flavor meats.
- 138828 to 138835. *ROSA* spp. Rosaceae. Rose.  
138828. *ROSA* sp.  
No. 5356. From Dehibala, Kirman, January 7, 1940. A dense bush found along a dry mountain stream, with clusters of small white fragrant flowers  $1\frac{1}{2}$  inches across.
138829. *ROSA* sp.  
No. 5599. From Dehibala, Shirkuh, February 22, 1940, at an altitude of 9,000 feet. A heavily armed shrub, with thin graceful basal branches in small clusters.
138830. *ROSA* sp.  
No. 5360. From Fuz, Kirman, January 8, 1940. A cultivated rose 3 feet high, with scented leaves.
138831. *ROSA* sp.  
No. 5553. From Guragan, February 11, 1940.
138832. *ROSA* sp.  
No. 5554. From Maskun, February 11, 1940. An open bush found growing at edge of a watered garden; flowers in clusters of 3 and 5.
138833. *ROSA* sp.  
No. 5391. From Chahasfarsakh, Kirman, January 14, 1940. A Rambler up to 8 feet high, with clusters of attractive fruits. The leaves become red and shiny.
138834. *ROSA* sp.  
No. 5357. From Fuz, Kirman, January 8, 1940. A Rambler about 10 feet high, with fruits in clusters. Flowers said to be yellow and 2 inches across.
138835. *ROSA* sp.  
No. 5366. From Chahasfarsakh, Kirman, January 9, 1940. A cultivated bush, 4 feet high, with shiny leaves.
138836. *SCHISMUS BARBATUS* (L.) Thell. Poaceae. Grass.  
No. 5864. From Bushire, Fars, April 14, 1940. A low bushy grass growing in the winter rainy season and dying down during the hot dry summer.
- 138837 to 138839. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.  
138837. No. 5298. *Kunjit*. From Saidabad, Kirman, January 1, 1940. Oil plant.  
138838. No. 5498. *Kunjit*. From Tomogaon, February 5, 1940. Oil plant.  
138839. No. 5711. *Kunjit*. From Persepolis, Fars, March 12, 1940. Oil plant.
138840. *DESCURAINIA SOPHIA* (L.) Prantl. Brassicaceae.  
No. 5280. *Khakishir*. From Saidabad, Kirman, January 1, 1940. A wild plant, whose seeds are used as a medicine for mild stomach disorders.
138841. *SOLANUM* sp. Solanaceae.  
No. 5521. *Rofas*. From Tomogaon, February 7, 1940. Used as a medicine.

## 138784 to 138849—Continued

138842 to 138844. *TRIFOLIUM SUAVEOLENS* Willd. Fabaceae.

Fragrant clover.

138842. No. 5816. *Shabdar*. From Shiraz, Fars, April 3, 1940. An annual fodder crop.138843. No. 5697. *Shabdar*. From Eglit, Fars, March 8, 1940. An annual fodder plant; cut once.138844. No. 5695. *Shabdar*. From Eglit, Fars, at an altitude of 6,000 feet, March 8, 1940. An annual fodder plant that is said to be cut 7 times.138845. *VITEX* sp. Verbenaceae.

No. 5177. From Isin, Laristan, December 17, 1939. A well-branched shrub about 7 feet high, growing on border of field.

138846 to 138848. *ZIZIPHUS MAURITIANA* Lam. Rhamnaceae. Indian jujube.138846. No. 5196. *Konar*. From Isin, December 18, 1939. A large, handsome tree or bush in dry regions, where it is much eaten by goats.138847. No. 5470. *Kolar*. From Cheshmaedozi, February 2, 1940. Shrub or small tree; fruit eaten by birds.138848. No. 5500. *Kular*. From Tomogaon, February 5, 1940. A well-formed, dense, spreading tree up to 2 feet in diameter. Fruit  $\frac{1}{2}$  to  $\frac{5}{8}$  inches long, honey brown, eaten by birds.138849. *ZIZIPHUS* sp.No. 5272. *Anab*. From Saidabad, Kirman, December 31, 1939. Said to be used medicinally.

## 138850 to 138862.

From Australia. Seeds presented by the Waite Agricultural Research Institute, Glen Osmond, South Australia. Received August 15, 1940.

138850. *ATRIPLEX STIPITATA* Benth. Chenopodiaceae.

Collected at Koonamore Vegetation Reserve.

138851. *ATRIPLEX VESICARIA* Heward. Chenopodiaceae.

Collected at Pallamana.

An erect bushy shrub, covered throughout with a scaly tomentum. The very small, oblong-lanceolate leaves are less than 1 inch long. Native to South Australia.

For previous introduction see 134843.

138852. *DANTHONIA SEMIANNULARIS* (Labill.) R. Br. Poaceae.

Wallaby grass.

Collected at the Waite Institute.

For previous introduction see 134846.

138853. *EUCALYPTUS GRACILIS* F. Muell. Myrtaceae.

Collected from Perth, Western Australia.

138854. *EUCALYPTUS MACROCARPA* Hook.

Obtained from Perth, Western Australia.

A stout evergreen shrub or small tree up to 15 feet high, with thick, rigid, cordate, glaucous leaves 6 inches long, and large, solitary, brilliant-orange or crimson flowers.

For previous introduction see 135478.

138855. *EUCALYPTUS MICROCARPA* Maiden. Myrtaceae.

Collected at Yudnapinna.

## 138850 to 138862—Continued

A large tree, with gray or white bark, lanceolate coriaceous leaves 4 inches long, and panicles made up of clusters of three to seven small flowers followed by very small subcylindrical fruits.

For previous introduction see 90698.

138856. *EUCALYPTUS OLEOSA* F. Muell. Myrtaceae.

Obtained from the Forest Department, Perth, Western Australia.

For previous introduction see 48994.

138857. *KOCHIA GEORGEI* Diels. Chenopodiaceae.

Collected at Pallamana.

138858. *KOCHIA SEDIFOLIA* F. Muell. Chenopodiaceae. Summer-cypress.

Collected at Renmark.

For previous introduction see 106717.

138859. *MEDICAGO TRUNCATULA* var. *TRIBULOIDES* (Desr.) Burnat. Fabaceae.

"Barrel Medic."

For previous introduction see 135858.

138860. *PAPPOPHORUM NIGRICANS* R. Br. Poaceae. Grass.

138861. *SCHISMUS BARBATUS* (L.) Thell. Poaceae. Grass.

For previous introduction see 138836.

138862. *SIDA INTRICATA* F. Muell. Malvaceae.

138863. *SOLANUM MAGLIA* Schlecht. Solanaceae. Nightshade.

From Chile. Tubers presented by the Ministry of Agriculture, Santiago. Received August 29, 1940.

A wild species, native to Chile, with oblong tubers about 1½ inches long. The tubers are said to have a bitter taste.

For previous introduction see 136429.

## 138864 to 138954.

From Iran. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received July 3-4, 1940.

138864 to 138868. *ANETHUM GRAVEOLENS* L. Apiaceae. Dill.

138864. No. 5202. *Melk*. From Bandar Abbas, December 20, 1939. Spice.

138865. No. 5428. *Metokh*. From Bam, January 25, 1940. Spice.

138866. No. 5282. *Shebet*. From Saidabad, Kirman, January 1, 1940. Used as a condiment.

138867. No. 5748. *Shevet*. From Jahrum, Fars, March 25, 1940. Potherb.

138868. No. 5764. *Shabat*. From Niriz, Fars, March 30, 1940. Potherb.

138869 and 138870. *ARACHIS HYPOGAEA* L. Fabaceae. Peanut.

138869. No. 5334. *Badamizamini* (earth almond). From Kirman, Kirman, January 4, 1940. Said to be from India.

138870. No. 5655. *Badamizamini*. From Isfahan, March 3, 1940.

138871 to 138902. *BRASSICA* spp. Brassicaceae.

138871. *BRASSICA OLERACEA* var. *BOTRYTIS* L. Cauliflower.

No. 5813. *Kilamigul*. From Shiraz, Fars, April 3, 1940. White, solid, 10 inches in diameter.

138872 to 138874. *BRASSICA OLERACEA* var. *CAPITATA* L. Cabbage.

## 138864 to 138954—Continued

138872. No. 5794. *Kalamifich* or *Kalamirumi*. From Shiraz, Fars, April 2, 1940. Flat, 1 foot in diameter.

138873. No. 5733. *Kalamisar*. From Jahrum, Fars, March 21, 1940.

138874. No. 5333. *Kilamifich*. From Kirman, Kirman, January 4, 1940. Flat, about 8 inches in diameter.

## 138875 to 138879. BRASSICA OLERACEA var. GONGYLODES L. Kohlrabi.

138875. No. 5847. *Kalamsar*. From Kazerun, Fars, April 11, 1940.

138876. No. 5797. *Khalamishari* or *kalami*. From Shiraz, Fars, April 2, 1940. Globose, green, mild in flavor.

138877. No. 5755. *Kalmisar*. From Niriz, Fars, March 29, 1940. Globose, green, mild in flavor, and tender. Said to weigh almost 6 pounds.

138878. No. 5582. *Kilamigomri*. From Yezd, Kirman, February 20, 1940. Globose, 4 to 5 inches in diameter, pale green.

138879. No. 5336. *Kilamigomri*. From Kirman, Kirman, January 4, 1940. Round, green, 6 inches in diameter.

## 138880 to 138898. BRASSICA RAPA L. Turnip.

*Shelgam* is the vernacular name for turnip in Iran.

138880. No. 5810. From Shiraz, Fars, April 3, 1940. Semiglobose; mixed red and white.

138881. No. 5842. From Kazerun, Fars, April 11, 1940.

138882. No. 5778. From Niriz, Fars, March 30, 1940. Said to be globose; red and white.

138883. No. 5738. From Jahrum, Fars, March 23, 1940.

138884. No. 5698. From Eglit, Fars, March 8, 1940, at an altitude of 6,000 feet. Said to be white and also red purple.

138885. No. 5658. From Isfahan, March 4, 1940. Globose, white and red purple.

138886. No. 5621. From Taft, February 23, 1940. Flat, up to 9 inches across; very tender, not very strong, almost tasteless.

138887. No. 5579. From Yezd, Kirman, February 20, 1940. Globose, white, red.

138888. No. 5539. From Gurgan, February 10, 1940. Globose and white, early.

138889. No. 5532. From Tomogaon, February 8, 1940.

138890. No. 5506. From Tomogaon, February 5, 1940. Roots elongated, 8 inches long and 1½ inches in diameter, white to purple, white-fleshed; very rare.

138891. No. 5505. From Tomogaon, February 5, 1940. An early white variety.

138892. No. 5461. (2-months turnip.) From Dehidisk, February 2, 1940.

138893. No. 5433. From Bam, January 25, 1940.

138894. No. 5377. From Khabis, Kirman, January 11, 1940. A white variety.

138895. No. 5349. From Kirman, Kirman, January 5, 1940. A flat, red variety.

138896. No. 5347. From Kirman, Kirman, January 5, 1940. A flat, white variety.

138897. No. 5300. From Saidabad, Kirman, January 1, 1940. A white variety.



## 138864 to 138954—Continued

138898. No. 5212. From Bandar Abbas, December 21, 1939. A small, globose, red variety.
- 138899 to 138902. *BRASSICA* spp. Brassicaceae.
138899. No. 5214. From Bandar Abbas, December 21, 1939. A potherb, adapted to alkaline soil.
138900. No. 5299. *Shelgam*. From Saidabad, Kirman, January 1, 1940.
138901. No. 5340. *Khardil*. From Kirman, Kirman, January 4, 1940. Seeds used for seasoning.
138902. No. 5184. *Khandal*. From Islin, December 17, 1939. A potherb.
- 138903 to 138910. *CICER ARIETINUM* L. Fabaceae. **Chickpea.**  
*Nakhud* is the vernacular name for the chickpea in Iran.
138903. No. 5283. From Saidabad, Kirman, January 1, 1940.
138904. No. 5397. From Dehishib, Kirman, January 18, 1940.
138905. No. 5432. From Bam, January 25, 1940.
138906. No. 5458. From Dehidisk, February 2, 1940.
138907. No. 5495. From Tomogaon, February 5, 1940.
138908. No. 5625. From Taft, February 23, 1940.
138909. No. 5471. From Tomogaon, February 3, 1940.
138910. No. 5675. From Eglit, Fars, March 8, 1940.
138911. *CUCUMIS* sp. Cucurbitaceae.  
 No. 5517. From Tomogaon, February 6, 1940.
138912. *LACTUCA SATIVA* L. Cichoriaceae. **Garden lettuce.**  
 No. 5427. From Bam, January 25, 1940. A scented, leafed annual.  
 For previous introduction see 138598.
- 138913 to 138919. *LATHYRUS CICERA* L. Fabaceae.
138913. No. 5181. *Mashuk*. From Isin, Laristan, December 17, 1939.
138914. No. 5281. *Kholar*. From Saidabad, Kirman, January 1, 1939.
138915. No. 5451. *Karui kahi*. From Dehidisk, February 1, 1940.
138916. No. 5496. *Karu*. From Tomogaon, February 5, 1940.
138917. No. 5497. *Karu*. From Tomogaon, February 5, 1940.
138918. No. 5520. From Tomogaon, February 7, 1940.
138919. No. 5525. *Karu*. From Tomogaon, February 7, 1940.
- 138920 to 138928. *LENS CULINARIS* Medik. Fabaceae. **Lentil.**  
*Adas* is the vernacular name for lentil in Iran.
138920. No. 5226. From Saadahabad, Kirman, December 22, 1939.
138921. No. 5301. From Saidabad, Kirman, January 1, 1940.
138922. No. 5420. From Bam, January 25, 1940.
138923. No. 5454. From Dehidisk, February 1, 1940.
138924. No. 5455. From Dehidisk, February 1, 1940.
138925. No. 5478. From Tomogaon, February 4, 1940.
138926. No. 5486. From Tomogaon, January 4, 1940.
138927. No. 5674. From Eglit, Fars, March 8, 1940.
138928. No. 5710. From Persepolis, Fars, March 12, 1940.

## 138864 to 138954—Continued

138929. *LEPIDIUM SATIVUM* L. Brassicaceae. **Garden cress.**  
No. 5747. *Taratezak*. From Jahrum, Fars, March 25, 1940. Potherb.
138930. *PETROSELINUM CRISPUM* (Mill.) Nym. Apiaceae. **Parsley.**  
No. 5401. *Karfs*. From Kirman, Kirman, January 21, 1940. A common potherb.
- 138931 and 138932. *PHASEOLUS AUREUS* Roxb. Fabaceae. **Mung bean.**  
138931. No. 5231. *Mash*. From Teserj, Kirman, December 24, 1939.  
138932. No. 5267. *Mash*. From Saidabad, Kirman, December 31, 1939.
- 138933 to 138944. *PHASEOLUS VULGARIS* L. Fabaceae. **Common bean.**  
*Lobia* is the vernacular name for the common bean in Iran.  
138933. No. 5274. From Saidabad, Kirman, January 1, 1940.  
138934. No. 5275. From Saidabad, Kirman, January 1, 1940.  
138935. No. 5327. From Kirman, Kirman, January 4, 1940.  
138936. No. 5540. From Guragan, February 10, 1940.  
138937. No. 5573. From Yezd, Kirman, February 20, 1940.  
138938. No. 5584. From Yezd, February 20, 1940.  
138939. No. 5601. From Dehibala, Chirkuh, February 22, 1940.  
138940. No. 5602. From Dehibala, Shirkuh, February 22, 1940.  
138941. No. 5632. From Yezd, February 24, 1940.  
138942. No. 5633. From Yezd, February 24, 1940.  
138943. No. 5637. From Isfahan, February 27, 1940.  
138944. No. 5670. From Eglit, Fars, March 8, 1940.
138945. *PISUM SATIVUM* L. Fabaceae. **Pea.**  
No. 5502. *Kudi*. From Tomogaon, February 5, 1940.  
For previous introduction see 137184.
138946. *RAPHANUS SATIVUS* L. Brassicaceae. **Radish.**  
No. 5185. *Torp*. From Isin, December 17, 1939.
- 138947 to 138950. *RICINUS COMMUNIS* L. Euphorbiaceae. **Castor-bean.**  
138947. No. 5314. *Kanatu* or *karchak*. From Saidabad, Kirman, January 1, 1940.  
138948. No. 5382. *Ketan*. From Khabis, Kirman, January 11, 1940.  
138949. No. 5384. *Ketan*. From Khabis, Kirman, January 11, 1940.  
138950. No. 5423. *Ketan*. From Bam, January 25, 1940. A bushy plant, 4 to 6 feet in height, with small seeds.  
For previous introduction see 134014.
- 138951 and 138952. *SPINACIA OLERACEA* L. Chenopodiaceae. **Common spinach.**  
138951. No. 5326. *Isfanach*. From Kirman, Kirman, January 3, 1940.  
138952. No. 5770. *Isfnaj*. From Niriz, Fars, March 30, 1940.
- 138953 and 138954. *TRIGONELLA FOENUM-GRÆCUM* L. Fabaceae. **Fenugreek.**  
138953. No. 5856. *Shambli*. From Bushire, Fars, April 14, 1940. Potherb.  
138954. No. 5317. From Saidabad, Kirman, January 1, 1940. Potherb.  
For previous introduction see 138688.

**138955. GOSSYPIUM. Malvaceae. Cotton.**

From Massachusetts. Seeds presented by the Gray Herbarium, Harvard University, Cambridge. Received August 19, 1940.

*C. B. 1409.* Seeds originally received from Argentina.

**138956. CYRTOSPERMA MERKUSII Schott. Araceae.**

From the Philippine Islands. Collected by Dr. David Fairchild, Coconut Grove, Florida. Received August 21, 1940.

No. 452.

**138957 to 138960.**

From Iran. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received August 20, 1940.

**138957 to 138959. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.**

138957. No. 6154. *Gelas.* From Tehran, June 14, 1940. Fruit  $\frac{5}{8}$  inch in diameter, red, good flavor.

138958. No. 6201. *Gelas.* From Tehran, June 21, 1940. A large, crimson variety.

138959. No. 6208. *Gelas.* From Tehran, June 22, 1940. A firm, "black" variety.

**138960. PRUNUS sp.**

No. 6155. From Burujird, Luristan, May 26, 1940.

**138961 to 138964.**

From Haiti. Seeds collected by H. F. Loomis and T. A. Fennell, Service Technique, Fond-des-Nègres. Received August 15, 1940.

**138961. ACROCOMIA ACULEATA Lodd. Phoenicaceae. Grugru palm.**

A beautiful spiny-trunked palm, with slightly arching fronds bearing crowded, narrow, drooping pinnae held at various angles to the upper surface of the rachis. This is the first record of the species from the Southern Peninsula of Haiti; several of the palms being found at Habitation Deron, between Beaumont and Rivier Glace, where the native name is *Cocotier*.

For previous introduction see 93528.

**138962. BORNOA CRASSISPATHA (Mart.) Cook. Phoenicaceae. Palm.**

A magnificent, pinnate-leaved palm, somewhat resembling the coconut, but attaining greater size and having a straight trunk; the leaves are arranged somewhat more on edge and are darker green. The very large, compact fruit-cluster from which the seeds were gathered weighed more than 40 pounds and was estimated to have had 1,500 to 2,000 fruits that were bright yellow when fully ripe.

**138963. BORNOA sp. Palm.**

Similar to *Bornoa crassispatha*, but the spathes are longer, more slender, and do not open as widely over the fruit cluster. The fruit clusters are smaller, with smaller fruits, fewer in number on the branches of the spadix; the terminal or male portion of the branches is longer. The palms here are known as *Cocoroz* or *Cocorosse*.

**138964. GEONOMA OXYCARPA Mart. Phoenicaceae. Palm.**

A slender palm, with a slender, very stiff trunk, 7 to 8 feet high, growing in moist woods on the higher mountains. The leaves are unevenly pinnate, with the pinnae usually segregated in several individual groups on each side of the rachis. The small fruits are bluish black. The common name of this palm is *Coco-macaque*.

**138965. SACCHARUM SPONTANEUM var. AEGYPTIACUM Hack.**  
Poaceae.

From Africa. Seeds presented by the Director, Department of Agriculture, Entebbe, Uganda. Received August 22, 1940.

From the Ankole District, Uganda.

**138966. AMYGDALUS PERSICA L. Amygdalaceae. Peach.**

From Argentina. Seeds collected by Paul E. Yatman, Swift & Co., Mendoza. Received August 21, 1940.

Seedlings of this peach are considered useful as rootstocks to be planted where more than normal soil moisture conditions are present.

**138967 and 138968. PRUNUS AVIUM L. Amygdalaceae. Sweet cherry.**

From Iran. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received August 26, 1940.

138967. No. 6184. *Gelas*. From Tehran, June 18, 1940. Fruit yellow, washed with red, 1 inch in diameter; flesh not firm, somewhat acid.

138968. No. 6225. *Gelas*. From Tehran, June 25, 1940. Flesh crimson, sweet, firm.

**138969. AMYGDALUS PERSICA L. Amygdalaceae. Peach.**

From California. Tree grown at the United States Plant Introduction Garden, Chico. Numbered August 28, 1940.

A selection (tree 6, row 10, orchard 0) from P. I. 82648. Tree vigorous, healthy; fruit yellow; flesh yellow, thick, firm, of good quality, practically free of red color around pit.

**138970. RUBUS sp. Rosaceae.**

From Haiti. Seeds collected by T. A. Fennell, Agricultural Advisor to the Government of Haiti, Port-au-Prince. Received August 24, 1940.

From the pine forest of Morne des Commissaires, near Savanne Zombi. A bush-type blackberry, with particularly large clusters of large, high quality fruit. The plants bear during more than 2 months.

**138971. TRITICUM DURUM Desf. Poaceae. Durum wheat.**

From Guatemala. Seeds presented by Dr. Mariano Pacheco, Director General de Agriculture, Guatemala City. Received August 28, 1940.

Var. *Pellis*. Originally from Algeria.

For previous introduction see 134944.

**138972. SACCHARUM. Poaceae. Sugarcane.**

From Australia. Seeds received from Colonial Sugar Refining Co., Ltd., Sydney, New South Wales. Received August 29, 1940.

No. 37. N. G. 6.

**138973 to 138991.**

From Venezuela. Seeds collected by A. G. Sandoval, Soil Conservation Service, United States Department of Agriculture. Received August 3, 1940.

138973. *ANTHEPHORA HERMAPHRODITA* (L.) Kuntze. Poaceae. Grass.  
No. 6.

For previous introduction see 74512.

138974. *AXONOPUS AFFINIS* Chase. Poaceae. Grass.

Grows on sandy soil on the savannas and near river banks; a good soil binder.

138973 to 138991—Continued

138975. *AXONOPUS BARBIGERUS* (Kunth) Hitchc.  
 One of the best cultivated grasses for fattening cattle; similar to guinea grass.
138976. *AXONOPUS PURPUSII* Chase.
- 138977 and 138978. *DIGITARIA HORIZONTALIS* Willd. Poaceae. Grass.  
 138977. No. 5. Grows in protected places, moist ground near riverbank.  
 138978. Grows on relatively moist ground.
138979. *ELEUSINE INDICA* (L.) Gaertn. Poaceae. Ragi.
138980. *ERAGROSTIS* sp. Poaceae. Grass.
138981. *LEPTOCHLOA DOMINGENSIS* (Jacq.) Trin. Poaceae. Grass.  
 No. 4.
138982. *MELINIS MINUTIFLORA* Beauv. Poaceae. Molasses grass.  
 For previous introduction see 132806.
138983. *PANICUM LAXUM* Swartz. Poaceae. Grass.  
 For previous introduction see 51782.
138984. *PANICUM MAXIMUM* Jacq. Guinea grass.  
 For previous introduction see 133432.
138985. *PANICUM VERSICOLOR* Doell. Grass.  
 No. 2.
138986. *PASPALUM CONJUGATUM* Berg. Poaceae. Grass.  
 For previous introduction see 99337.
138987. *PASPALUM MELANOSPERMUM* Desv. Grass.
138988. *SETARIA* sp. Poaceae. Grass.  
 A valuable grass; grows in moist places.
138989. *SORGHUM HALEFENSE* (L.) Pers. Poaceae. Johnson grass.  
 Grows on moist ground.
138990. *SPOROBOLUS INDICUS* (L.) R. Br. Poaceae. Grass.  
 No. 1.
138991. *SPOROBOLUS POIRETI* (Roem. and Schult.) Hitchc. Grass.  
 Grown in moist places; valuable pasture grass.
- 138992 to 139069. *ORYZA SATIVA* L. Poaceae. Rice.
- From Brazil. Seeds presented by Dr. C. A. Krug, Instituto Agronómico de São Paulo, Campinas. Received August 30, 1940.
- |                                  |                                  |
|----------------------------------|----------------------------------|
| 138992. <i>Var. 161, I-2550.</i> | 139002. <i>Var. 171, I-2560.</i> |
| 138993. <i>Var. 162, I-2551.</i> | 139003. <i>Var. 172, I-2561.</i> |
| 138994. <i>Var. 163, I-2552.</i> | 139004. <i>Var. 173, I-2562.</i> |
| 138995. <i>Var. 164, I-2553.</i> | 139005. <i>Var. 174, I-2563.</i> |
| 138996. <i>Var. 165, I-2554.</i> | 139006. <i>Var. 175, I-2564.</i> |
| 138997. <i>Var. 166, I-2555.</i> | 139007. <i>Var. 176, I-2565.</i> |
| 138998. <i>Var. 167, I-2556.</i> | 139008. <i>Var. 177, I-2566.</i> |
| 138999. <i>Var. 168, I-2557.</i> | 139009. <i>Var. 178, I-2567.</i> |
| 139000. <i>Var. 169, I-2558.</i> | 139010. <i>Var. 179, I-2568.</i> |
| 139001. <i>Var. 170, I-2559.</i> | 139011. <i>Var. 180, I-2569.</i> |

## 138992 to 139069—Continued

- |                                  |                                  |
|----------------------------------|----------------------------------|
| 139012. <i>Var. 181, I-2570.</i> | 139041. <i>Var. 283, I-2871.</i> |
| 139013. <i>Var. 182, I-2571.</i> | 139042. <i>Var. 284, I-2872.</i> |
| 139014. <i>Var. 183, I-2572.</i> | 139043. <i>Var. 285, I-2873.</i> |
| 139015. <i>Var. 184, I-2573.</i> | 139044. <i>Var. 286, I-2874.</i> |
| 139016. <i>Var. 185, I-2574.</i> | 139045. <i>Var. 287, I-2875.</i> |
| 139017. <i>Var. 186, I-2575.</i> | 139046. <i>Var. 289, I-2877.</i> |
| 139018. <i>Var. 187, I-2576.</i> | 139047. <i>Var. 290, I-2878.</i> |
| 139019. <i>Var. 188, I-2577.</i> | 139048. <i>Var. 291, I-2879.</i> |
| 139020. <i>Var. 189, I-2578.</i> | 139049. <i>Var. 292, I-2880.</i> |
| 139021. <i>Var. 190, I-2579.</i> | 139050. <i>Var. 293, I-2881.</i> |
| 139022. <i>Var. 191, I-2580.</i> | 139051. <i>Var. 294, I-2882.</i> |
| 139023. <i>Var. 192, I-2581.</i> | 139052. <i>Var. 295, I-2883.</i> |
| 139024. <i>Var. 193, I-2582.</i> | 139053. <i>Var. 296, I-2884.</i> |
| 139025. <i>Var. 194, I-2583.</i> | 139054. <i>Var. 297, I-2885.</i> |
| 139026. <i>Var. 268, I-2856.</i> | 139055. <i>Var. 298, I-2886.</i> |
| 139027. <i>Var. 269, I-2857.</i> | 139056. <i>Var. 299, I-2887.</i> |
| 139028. <i>Var. 270, I-2858.</i> | 139057. <i>Var. 300, I-2888.</i> |
| 139029. <i>Var. 271, I-2859.</i> | 139058. <i>Var. 301, I-2889.</i> |
| 139030. <i>Var. 272, I-2860.</i> | 139059. <i>Var. 302, I-2890.</i> |
| 139031. <i>Var. 273, I-2861.</i> | 139060. <i>Var. 303, I-2991.</i> |
| 139032. <i>Var. 274, I-2862.</i> | 139061. <i>Var. 351, I-3634.</i> |
| 139033. <i>Var. 275, I-2863.</i> | 139062. <i>Var. 352, I-3635.</i> |
| 139034. <i>Var. 276, I-2864.</i> | 139063. <i>Var. 353, I-3636.</i> |
| 139035. <i>Var. 277, I-2865.</i> | 139064. <i>Var. 354, I-3637.</i> |
| 139036. <i>Var. 278, I-2866.</i> | 139065. <i>Var. 355, I-3638.</i> |
| 139037. <i>Var. 279, I-2867.</i> | 139066. <i>Var. 356, I-3639.</i> |
| 139038. <i>Var. 280, I-2868.</i> | 139067. <i>Var. 357, I-3640.</i> |
| 139039. <i>Var. 281, I-2869.</i> | 139068. <i>Var. 358, I-3641.</i> |
| 139040. <i>Var. 282, I-2870.</i> | 139069. <i>Var. 359, I-3642.</i> |

## 139070 to 139071.

From the Union of South Africa. Seeds presented by the McGregor Museum, Kimberley. Received August 26, 1940.

139070. *PENNISETUM CILIARE* (L.) Link. (*P. cenchroides* Rich.). Poaceae. Grass.

A perennial grass, with ascending stems up to 2 feet long. Native to South Africa.

For previous introduction see 133898.

139071. *OLEA VERRUCOSA* (Roem. and Schult.) Link. Oleaceae. Olive.

For previous introduction see 137596.

139072 to 139131. *ZEA MAYS* L. Poaceae. Corn.

From Brazil. Seeds presented by C. A. Krug, Instituto Agronómico, Campinas, São Paulo. Received August 30, 1940.

Nos. 139072 to 139105 were from the market at Cochabamba, Bolivia.

## 139072 to 139131—Continued

- |   |   |
|---|---|
| 139072. Var. 454. <i>Maiz pisanokalla.</i>                | 139091. Var. 515. <i>Maiz amarillo.</i>                   |
| 139073. Var. 456. <i>Maiz pisanokalla.</i>                | 139092. Var. 516. <i>Maiz amarillo.</i>                   |
| 139074. Var. 460. <i>Maiz chuspillo;</i><br>sweet corn.   | 139093. Var. 523. <i>Maiz uchuquilla.</i>                 |
| 139075. Var. 469. <i>Maiz chuspillo;</i><br>sweet corn.   | 139094. Var. 528. <i>Maiz chuspillo</i><br><i>morado.</i> |
| 139076. Var. 476. <i>Maiz chechiche.</i>                  | 139095. Var. 542. <i>Maiz culli</i><br>(negro).           |
| 139077. Var. 479. <i>Maiz chechiche.</i>                  | 139096. Var. 548. <i>Maiz colli.</i>                      |
| 139078. Var. 499. <i>Maiz colli.</i>                      | 139097. Var. 549. <i>Maiz cruzado.</i>                    |
| 139079. Var. 500. <i>Maiz colli.</i>                      | 139098. Var. 550. <i>Maiz crespo o</i><br><i>chieche.</i> |
| 139080. Var. 501. <i>Maiz colli.</i>                      | 139099. Var. 551. <i>Maiz crespo o</i><br><i>chieche.</i> |
| 139081. Var. 502. <i>Maiz colli.</i>                      | 139100. Var. 552. <i>Maiz crespo o</i><br><i>chieche.</i> |
| 139082. Var. 503. <i>Maiz colli.</i>                      | 139101. Var. 553. <i>Maiz crespo o</i><br><i>chieche.</i> |
| 139083. Var. 504. <i>Maiz cruzado.</i>                    | 139102. Var. 554. <i>Maiz crespo o</i><br><i>chieche.</i> |
| 139084. Var. 505. <i>Maiz cruzado.</i>                    | 139103. Var. 555. <i>Maiz huillcaparu.</i>                |
| 139085. Var. 506. <i>Maiz cruzado.</i>                    | 139104. Var. 556. <i>Maiz gris.</i>                       |
| 139086. Var. 507. <i>Maiz crespo o</i><br><i>chieche.</i> | 139105. Var. 557. <i>Maiz gris.</i>                       |
| 139087. Var. 509. <i>Maiz blanco.</i>                     |   |
| 139088. Var. 510. <i>Maiz huillcaparu.</i>                |   |
| 139089. Var. 511. <i>Maiz huillcaparu.</i>                |   |
| 139090. Var. 514. <i>Maiz amarillo.</i>                   |   |

Nos. 139106 to 139108 were from the Criadero Enrique Klein, Pla.—C. G. B. A., Argentina.

139106. Var. 561. *Maiz Colorado Cuarentón Klein.*

139107. Var. 562. *Amarillo Klein.*

139108. Var. 563. *Colorado Klein.*

139109. Var. 564. *Maiz dulce.* From Carlos Bazzani & Cia, Montevideo, Uruguay.

Nos. 139110 to 139124 were from the Estación Experimental de la Molina, Lima, Peru.

- |   |  |
|---|--|
| 139110. Var. 578. <i>Maiz sacsa.</i>                  | 139118. Var. 620. <i>Maiz blanco.</i>                  |
| 139111. Var. 580. <i>Maiz blanco.</i>                 | 139119. Var. 623. <i>Maiz chullipi.</i>                |
| 139112. Var. 585. <i>Maiz chulpi.</i>                 | 139120. Var. 628. <i>Maiz cafe.</i>                    |
| 139113. Var. 586. <i>Maiz orque.</i>                  | 139121. Var. 636. <i>Maiz de Echarte.</i>              |
| 139114. Var. 588. <i>Maiz urquillino.</i>             | 139122. Var. 637. <i>Maiz cafe de</i><br><i>Cuzco.</i> |
| 139115. Var. 591. <i>Maiz huaira.</i>                 | 139123. Var. 644. <i>Maiz laurel.</i>                  |
| 139116. Var. 614. <i>Maiz de</i><br><i>Ayusbamba.</i> | 139124. Var. 645. <i>Maiz suave</i><br>(mole).         |
| 139117. Var. 616. <i>Maiz de Cuzco.</i>               |  |

Nos. 139125 to 139129 were from Quito, Ecuador.

- |  |   |
|--|---|
| 139125. Var. 666. <i>Morocho.</i>                  | 139127. Var. 680. <i>Maiz rojo del</i><br><i>guinche.</i> |
| 139126. Var. 678. <i>Maiz negro</i><br>(semiduro). | 139128. Var. 683. <i>Maiz chu'pi.</i>                     |

## 139072 to 139131—Continued

139129. Var. 685. *Maiz morocho*  
(*indurata*).

Nos. 139130 and 139131 were collected at Barranquilla, Colombia.

139130. Var. 689.

139131. Var. 690.

139132. *BABIANA PLICATA* (L.) Ker. Iridaceae.

From California. Bulbs presented by the H. A. Hyde Co., Watsonville. Received October 20, 1937. Numbered September, 1940.

A dwarf, sweet-scented, early-flowering *babiana*, with five to six lanceolate leaves 3 to 6 inches long, and four to six flowers in a simple or forked spike, usually shorter than the leaves. The ringent lilac or reddish perianth is about 1 inch long. Native to South Africa.

For previous introduction see 132676.

139133. *STENOMESSION PEARCEI* Baker. Amaryllidaceae.

From Peru. Bulbs presented by C. Vargas, University of Cuzco, Department of Botany, Cuzco. Received June 29, 1938. Numbered in September, 1940.

139134. *PRUNUS AVIUM* L. Amygdalaceae. Sweet cherry.

From Iran. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received September 5, 1940.

No. 6242. *Gelas*. From Tehran, July 5, 1940. Fruit dark maroon; moderately firm,  $\frac{3}{4}$  inch in diameter; little sugar or flavor.

## 139135 and 139136.

From Mexico. Seeds presented by Dr. Narciso Souza-Novelo, Mérida, Yucatan. Received September 7, 1940.

139135. *CORDIA DODECANDRA* DC. Boraginaceae.

*Ciricote*.

139136. *CORDIA SEBESTENA* L.

Geiger-tree.

139137. *HIBISCUS KITAIBELIFOLIUS* St. Hil. Malvaceae.

From Brazil. Seeds presented by Eliezer Moreira, Chefe da Secção de Plantas Texteis, Ministerio da Agricultura, Rio de Janeiro. Received September 5, 1940.

139138 to 139146. *SOLANUM* spp. Solanaceae.

From India. Tubers presented by B. P. Pal, Imperial Economic Botanist, New Delhi. Received September 9, 1940.

139138. *SOLANUM ANDIGENUM* Juz. and Buk.

For previous introduction see 133617.

139139. *SOLANUM ARRACC-PAPA* Juzepczuk.

For previous introduction see 133629.

139140. *SOLANUM CANDELARIUM* Busasov.

139141. *SOLANUM CURTILOBUM* Juz. and Buk.

For previous introduction see 103031.

139142. *SOLANUM LEPTOSTIGMA* Juzepczuk.

For previous introduction see 133726.

139143. *SOLANUM MAGLIA* Schlecht.

Nightshade.

For previous introduction see 138863.



## 139138 to 139146—Continued

139144. SOLANUM NEO-ANTIFOVICZII Bukasov.

139145. SOLANUM OTITES Dun.

139146. SOLANUM SUBTILIUS Bitter.

## 139147 to 139154.

From New Zealand. Plants purchased from J. N. Anderson & Son, Napier.  
Received September 10, 1940.

139147 to 139149. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

139147. *Anderson's Seedling.*139148. *Black Boy.*139149. *Mary's Choice.*

139150. CITRUS. Rutaceae. Grapefruit.

*Poorman Orange.*

139151. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

*Royal Late.*

139152. PRUNUS sp. Plum.

*George Wilson.*

139153 and 139154. RHEUM RHAPONTICUM L. Polygonaceae. Common rhubarb.

139153. *Giant Non-seeding.*139154. *Topp's Crimson Winter.*

## 139155 to 139163.

From New Zealand. Plants purchased from W. H. Walker & Sons, Hastings,  
Hawke's Bay. Received September 10, 1940.

139155 to 139157. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

139155. *A-1.*139156. *American Pound.*139157. *Osprey Improved.*

139158. CITRUS PARADISI Macfad. Rutaceae. Grapefruit.

*Morrison's Seedless.*

139159 and 139160. MALUS SYLVESTRIS Mill. Malaceae. Apple.

139159. *Frimley.*139160. *Oratia Beauty.*

139161 and 139162. PRUNUS ARMENIACA L. Amygdalaceae. Apricot.

139161. *Bay View.*139162. *Harris.*

139163. RHEUM RHAPONTICUM L. Polygonaceae. Common rhubarb.

*Horton's Champion.*

## 139164 to 139172.

From New Zealand. Plants purchased from Webbs' Nurseries, Hastings,  
Hawke's Bay. Received September 10, 1940.

139164 and 139165. AMYGDALUS PERSICA L. Amygdalaceae. Peach.

139164. *Mahuta.*139165. *Utalis.*

## 139164 to 139172—Continued

- 139166 to 139168. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.  
 139166. *Bledisloe* Cox.  
 139167. *English Red* Cox.  
 139168. *Kapai Red* Jonathan.
- 139169 to 139171. *PRUNUS* spp. Amygdalaceae. Plum.  
 139169. *Sharp's Early*.  
 139170. *Wilson*.  
 139171. *Wright's Early*.
139172. *RHEUM RHAPONTICUM* L. Polygonaceae Common rhubarb.  
*Weightman's Invincible*.
139173. *ARUNDO DONAX* L. Poaceae. Giant reed.  
 From France. Plants presented by Harold Kooden, Los Angeles, California.  
 Received May 1, 1940.  
 For previous introduction see 138787.
- 139174 to 139178.  
 From Turkey. Bulbs purchased from Hanna Boutros, Mersine. Received  
 September 12, 1940.
139174. *IRIS PERSICA* var. *STENOPHYLLA* (Baker) Dykes. Iridaceae.  
 139175. *IRIS* sp.  
 Juno section.  
 139176. *FRITILLARIA* sp. Liliaceae.  
 A species with yellow flowers.  
 139177. *GALANTHUS CLICICUS* Baker. Amaryllidaceae.  
 139178. *TULIPA SPRENGERI* Baker. Liliaceae.
- 139179 to 139185.  
 From Venezuela. Seeds presented by A. G. Sandoval, Soil Conservation Service,  
 United States Department of Agriculture, San Tor. Received September 7, 1940.
139179. *CAJANUS CAJAN* (L.) Druce. Fabaceae. Pigeon-pea.  
*Quinchancha*. Produces for two seasons; eaten green and dried.
139180. *CASSIA* sp. Caesalpiniaceae.  
 139181. *CROTALARIA* sp. Fabaceae.  
 139182. *LESPEDEZA* sp. Fabaceae.  
 139183. *GLYCINE MAX* (L.) Merrill. Fabaceae. Soybean.  
 139184. *SORGHUM VULGARE* var. *SUDANENSE* (Piper) Hitchc. Poaceae. Sorghum.  
 Used as bird feed.
139185. *VIGNA SINENSIS* (Torner) Hassk. Fabaceae. Cowpea.  
*Baunitas*. Beans used green and dried.
139186. *HIBISCUS*. Malvaceae.  
 From Florida. Plants growing at the Plant Introduction Garden, Coconut  
 Grove. Numbered September 20, 1940.  
 Var. *Mrs. Earl Arthony*. A handsome single yellow hibiscus, presumably  
 of hybrid origin, originally introduced from Hawaii by Col. R. H. Montgom-

## 139186—Continued

ery. The flower, which measures 6 inches across, has full, well-rounded, overlapping petals of uniform picric yellow (Ridgway). The column, of the same color, is thick and stiffly erect. The stigmas are pinard yellow (Ridgway).

## 139187 to 139193.

From New Zealand. Plants purchased from the J. H. Harrison Nurseries, Te Kuiti. Received September 24, 1940.

139187. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.  
*Ideal.*

139188. *CITRUS PARADISI* Macfad. Rutaceae. Grapefruit.  
*Oani Kin Kan.*

139189. *CITRUS SINENSIS* (L.) Osbeck. Orange.  
*Poorman.*

139190 and 139191. *MALUS SYLVESTRIS* Mill. Malaceae. Apple.  
139190. *Albany Beauty.*  
139191. *Kidds Orange Red.*

139192. *PRUNUS* sp. Amygdalaceae.  
*Duffy's Early Jewell.*

139193. *RHEUM RHAPONTICUM* L. Polygonaceae. Common rhubarb.  
*Giant Crimson Wonder.*

139194. *GLADIOLUS* sp. Iridaceae.

From Florida. Plant growing at the United States Plant Introduction Garden, Coconut Grove. Numbered September 24, 1940.

Large, round bulbs with purple flowers.

## 139195 to 139203.

From Australia. Trees purchased from F. E. Benham, Benyenda Nurseries, Byrnestown, Queensland. Received September 24, 1940.

139195. *AMYGDALUS PERSICA* L. Amygdalaceae. Peach.  
*Wiggins.*

139196 and 139197. *CITRUS* spp. Rutaceae.  
139196. *Joppa.*

139197. *White Siletta.*

139198 to 139200. *CITRUS RETICULATA* Blanco. Rutaceae. Mandarin orange.

139198. *Scarlet Emperor.*

139199. *Solid Scarlet.*

139200. *Thorny.*

139201. *ERIOBOTRYA JAPONICA* (Thunb.) Lindl. Malaceae. Loquat.  
*Heards.*

139202 and 139203. *PRUNUS* spp. Amygdalaceae.

139202. *PRUNUS ARMENIACA* L. Apricot.  
*Travatt.*

139203. *PRUNUS* sp. Plum.  
*Rema.*

## 139204 to 139251.

From the United States. Seeds collected by Rogers McVaugh, Bureau of Plant Industry, United States Department of Agriculture. Received September 16, 1940.

Unless otherwise stated, collections were made in Georgia.

139204. *AESCULUS PAVIA* L. Aesculaceae.

No. 5390. From Athens, Clarke County, August 27, 1940.

139205. *AMORPHA VIRGATA* Small. Fabaceae.

No. 5309. From the swamps along the Altamaha River, near Lyons, Toombs County, August 23, 1940.

139206. *AMORPHA FRUTICOSA* L.

Indigobush.

No. 5310. From the Altamaha River, south of Lyons, Toombs County, August 25, 1940.

For previous introduction see 118796.

139207. *AMORPHA* sp.

No. 5319. Southeast of Greensboro, Greene County, August 26, 1940.

139208. *BAPTISIA* sp. Fabaceae.

From the swamps of the Altamaha River, south of Lyons, Toombs County, August 25, 1940.

139209. *CALYCANTHUS* sp. Calycanthaceae.

From the Bent Creek Experimental Forest, Buncombe County, North Carolina. August 30, 1940.

139210 and 139211. *CLIFTONIA MONOPHYLLA* (Lam.) Sarg. Cyrillaceae.

139210. No. 5294. From northeast of Homerville, Clinch County, August 28, 1940.

139211. From Waycross, Ware County, August 24, 1940.

139212. *CLINOPODIUM COCCINEUM* (Nutt.) Kuntze. Verbenaceae.

No. 5312. From the sand hills of Ohoopsee River, Oak Park, Emanuel County, August 25, 1940.

139213. *COREOPSIS PUBESCENS* Ell. Asteraceae.

From southwest of Franklin, Heard County, August 20, 1940.

139214. *COREOPSIS GRANDIFLORA* Sweet.

From near Wedowee, Randolph County, Alabama. August 20, 1940.

139215. *CRATAEGUS FLORIDANA* Sarg. Malaceae.

No. 5275. From Live Oak, Suwannee County, Florida. August 24, 1940.

139216. *ELAEAGNUS UMBELLATA* Thunb. Elaeagnaceae. Autumn elaeagnus.

No. 5388. From Athens, Clarke County, August 27, 1940.

139217. *ILEX CORIACEA* (Pursh) Chapm. Aquifoliaceae.

No. 5293. From Homerville, Clinch County, August 24, 1940.

139218. *LEUCOTHOE AXILLARIS* (Lam.) D. Don. Ericaceae.

No. 5318. From Metter, Candler County, August 25, 1940.

139219 to 139238. *MALUS* spp. Malaceae.139219. *MALUS* sp.

No. 5227. Collected 10 miles west of Junction City, Talbot County, August 22, 1940.

139220. *MALUS* sp.

## 139204 to 139251—Continued

No. 5229. Collected 5 miles south of Reynolds, Macon County, August 22, 1940.

139221. *MALUS* sp.

No. 5253. Collected 8 miles south of Bainbridge, Decatur County, August 23, 1940.

139222. *MALUS* sp.

No. 5254. Collected 8.5 miles south of Bainbridge, August 23, 1940.

Nos. 139223 to 139227 were collected near Chattahoochee and Quincy, Gadsden County, Florida, August 23 and 24, 1940.

139223. *MALUS* sp.

No. 5255.

139224. *MALUS* sp.

No. 5257.

139225. *MALUS* sp.

No. 5270.

139226. *MALUS* sp.

No. 5271.

139227. *MALUS* sp.

No. 5274.

Nos. 139228 to 139233 were collected in Buncombe County, North Carolina.

139228. *MALUS* sp.

No. 5409. From 3 miles south of Asheville, August 29, 1940.

139229. *MALUS* sp.

No. 5420. From Asheville, August 30, 1940.

139230. *MALUS* sp.

No. 5421. From Asheville, August 30, 1940.

139231. *MALUS* sp.

No. 5422. From Asheville, August 30, 1940.

139232. *MALUS* sp.

No. 5425. From the Bent Creek Experimental Forest, August 30, 1940.

139233. *MALUS* sp.

No. 5426. From the Bent Creek Experimental Forest, August 30, 1940.

139234. *MALUS* sp.

No. 5433. From Glen Alpine, Burke County, August 31, 1940.

139235. *MALUS* sp.

No. 5441. From Virginia. Collected in a meadow near Arlington, September 15, 1940.

Nos. 139236 to 139238 were collected in Pennsylvania.

139236. *MALUS* sp.

No. 5443. From Orchard Hill, Duncannon, Perry County, September 22, 1940.

139237. *MALUS* sp.

No. 5447. From 2 miles southwest of Dromgold, Perry County, September 22, 1940.

## 139204 to 139251—Continued

## 139238. MALUS sp.

No. 5448. From 2 miles southwest of Dromgold, Perry County, September 22, 1940.

## 139239. MANFREDA TIGRINA (Engelm.) Small. Amaryllidaceae.

No. 5320. From 9 miles southeast of Greensboro, Greene County, August 26, 1940.

## 139240. NOLINA GEORGIANA Michx. Liliaceae.

No. 5139. From 10 miles west of Augusta, Richmond County, August 19, 1940.

139241. NYSSA OGECHE Marsh. Cornaceae. **Tupelo.**

No. 5285. From 10 miles northwest of Fargo, Clinch County, August 24, 1940.

## 139242. LYONIA LUCIDA (Lam.) K. Koch. Ericaceae.

No. 5280. From 6 miles north of Fargo, August 24, 1940.

## 139243. POLYGONELLA AMERICANA (Fisch. and Mey.) Small. Polygonaceae.

No. 5138. From 5 miles west of Augusta, Richmond County, August 19, 1940.

## 139244 to 139247. PORTULACA spp. Portulacaceae.

## 139244. PORTULACA sp.

No. 5418. From Flat Rock, Henderson County, North Carolina, August 29, 1940.

## 139245. PORTULACA SMALLII P. Wilson.

From Greensboro, Greene County, August 26, 1940.

## 139246 and 139247. PORTULACA CORONATA Small.

139246. From Eatonton, Putnam County, August 19, 1940.

139247. From Appling, Columbia County, August 19, 1940.

## 139248. PRUNUS sp. Amygdalaceae.

No. 5228. From Junction City, Talbot County, August 22, 1940. A red-fruited plum.

## 139249. PRUNUS sp.

No. 5273. From near Wakulla Spring, Wakulla County, Florida. August 23, 1940. Fruits black.

## 139250. TALINUM MENGESII W. Wolf. Portulacaceae.

From Alabama. From 5 miles west of Wedomee, Randolph County, Alabama. August 20, 1940.

## 139251. TORREYA TAXIFOLIA Arn. Taxaceae.

No. 5258. From Chattahoochee, Gadsden County, Florida. August 24, 1940.

139252. COELOCOCCUS AMICARUM (Wendl.) W. F. Wight (*C. carolinensis* Dingl.). Phoenicaceae. **Ivory-nut palm.**

From Florida. Plants growing at the Plant Introduction Garden, Coconut Grove. Numbered October 15, 1940.

The ivory-nut palm, 30 to 50 feet high, is native to the Pacific Islands. The beautiful, brownish, scaly fruits, 3 inches in diameter, are used in the manufacture of the very large buttons used on ladies' coats.

For previous introduction see 54515.

**139253 to 139255.**

From Turkey. Bulbs presented by Hanna Boutros, Mersine. Received September 30, 1940.

139253. *ALLIUM CILICIMUM* Boiss. Liliaceae.

139254. *HYACINTHUS ORIENTALIS* L. Amaryllidaceae.

For previous introduction see 124975.

139255. *COLCHICUM AUTUMNALE* L. Melanthiaceae.

For previous introduction see 90951.

**139256 to 139267.**

From Australia. Seeds presented by the Waite Agricultural Research Institute, Glen Osmond, South Australia. Received September 21, 1940.

139256. *MEDICAGO HISPIDA* var. *CONFINIS* (Koch) Burnat. Fabaceae. **Medic.**

For previous introduction see 31022.

139257. *MEDICAGO OBSCURA* Retz. Fabaceae. **Medic.**

139258. *MEDICAGO TRUNCATULA* var. *TRIBULOIDES* (Desr.) Burnat.

For previous introduction see 135858.

139259. *TRIFOLIUM CERNUUM* Brot. Fabaceae. **Clover.**

For previous introduction see 90727.

139260. *TRIFOLIUM GLOMERATUM* L. **Clover.**

For previous introduction see 137703.

139261. *TRIFOLIUM LAPPACEUM* L. **Clover.**

For previous introduction see 121233.

139262. *TRIFOLIUM RESUPINATUM* L. **Strawberry clover.**

For previous introduction see 121234.

139263 to 139266. *TRIFOLIUM SUBTERRANEUM* L. **Subterranean clover.**

139263. *Bacchus Marsh.*

139264. *Mulwala.*

139265. *Seaton Park.*

139266. A white-seeded form.

139267. *TRIGONELLA SUAVISSIMA* Lindl. Fabaceae.

For previous introduction see 135860.

139268. *PINUS TROPICALIS* Morelet. Pinaceae. **Pine.**

From Cuba. Seed presented by Alberto Fors, Director of Forestry, Department of Agriculture, Havana. Received September 27, 1940.

**139269 to 139271.**

From Surinam. Plants presented by the Department of Agriculture, Paramaribo. Received August 1, 1939.

139269. Undetermined bamboo.

139270 and 139271. *DENDROCALAMUS ASPER* (Schultes) Backer. **Bamboo.**

139272. *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**

From Yugoslavia. Scions presented by Ivo Volaric, Stenjevec, Croatia. Received December 30, 1938.

Numbered in September, 1940.

## INDEX OF COMMON AND SCIENTIFIC NAMES

- Abelmoschus esculentus*, 138507-138509.  
*Acacia* sp., 138784.  
*Acer* sp., 138489.  
*Acrocomia aculeata*, 138961.  
*Adesmia bicolor*, 138776.  
*latifolia*, 138777.  
 Adlay. See *Coix lacryma-jobi* var. *ma-yuen*.  
*Aesculus pavia*, 139204.  
*Agropyron trachycaulum*, 138403-138405.  
*Albizia kalkora*, 138691.  
 Alfalfa. See *Medicago sativa*.  
*Allium* spp., 138538, 138539.  
*ascalonicum*, 138510.  
*cepa*, 138511-138526.  
*cilicium*, 139253.  
*porrum*, 138527-138537.  
*Alocasia zebrina*, 137945.  
*Aloe longibracteata*, 138506.  
*Althaea rosea*, 138785.  
*Ammi copticum*, 138792, 138793.  
*Amorpha* sp., 139207.  
*fruticosa*, 139206.  
*virgata*, 139205.  
*Amygdalus persica*, 138966, 138969, 139147-139149, 139155-139157, 139164, 139165, 139187, 139195.  
*Anethum graveolens*, 138864-138868.  
*Annona paludosa*, 137938.  
*Anthephora hermaphrodita*, 138973.  
*Antidesma montanum*, 137946, 137947.  
 Apple. See *Malus sylvestris*.  
 Apricot. See *Prunus armeniaca*.  
*Arachis hypogaea*, 138869, 138870.  
*Areca* sp., 137948.  
*Artemisia* sp., 138786.  
*Artocarpus* sp., 137949.  
*Arundo donax*, 138787, 139173.  
 Ash. See *Fraxinus* sp.  
*Atraphaxis* sp., 138788.  
*Atriplex stipitata*, 138850.  
*vesicaria*, 138851.  
*Avena* spp., 138694, 138695.  
*Azonopus affinis*, 138974.  
*barbigerus*, 138975.  
*purpusii*, 138503, 138976.  
*Azadirachta indica*, 137950.  
  
*Babiana plicata*, 139132.  
 Bamboo. See *Dendrocalamus asper*.  
*Baptisia* sp., 139208.  
 Barley. See *Hordeum* spp.  
*Barringtonia racemosa*, 137951.  
 Bean, common. See *Phaseolus vulgaris*.  
*mung*. See *P. aureus*.  
*Berberis* spp., 138789-138791.  
 Berseem. See *Trifolium alexandrinum*.  
*Beta vulgaris*, 138540-138555.  
  
*Bornoa* sp., 138963.  
*crassispatha*, 138962.  
*Brassica* spp., 138899-138902.  
*oleracea* var. *botrytis*, 138871.  
*oleracea* var. *capitata*, 138872-138874.  
*oleracea* var. *gongyloides*, 138875-138879.  
*rapa*, 138880-138898.  
 Broadbean. See *Vicia faba*.  
*Bromus* sp., 138406.  
*Bryonopsis laciniosa*, 138001.  
  
 Cabbage. See *Brassica oleracea* var. *capitata*.  
*Caesalpinia spinosa*, 138416.  
*Cajanus cajan*, 139179.  
*Calamagrostis viridi-flavescens*, 138778.  
*Calycanthus* sp., 139209.  
 Camel-hay. See *Cymbopogon schoenanthus*.  
*Capparis* sp., 137952.  
*Capsicum frutescens*, 138556-138567.  
 Carissa. See *Carissa grandiflora*.  
*Carissa grandiflora*, 138452.  
 Carrot. See *Daucus carota*.  
*Carthamus tinctorius*, 138417-138450.  
*Cassia* sp., 139180.  
 Castor-bean. See *Ricinus communis*.  
 Catjang. See *Vigna cylindrica*.  
 Cauliflower. See *Brassica oleracea* var. *botrytis*.  
*Celosia* spp., 138794, 138795.  
*Cercis* sp., 138796.  
 Cherry, sweet. See *Prunus avium*.  
 Chickpea. See *Cicer arietinum*.  
*Chisocheton* sp., 137953.  
*Cicer arietinum*, 138903-138910.  
*Citrus*, 139150.  
 spp., 139196, 139197.  
*paradisi*, 139158, 139188.  
*reticulata*, 139198-139200.  
*sinensis*, 139189.  
*Clematis* sp., 138490.  
*Clerodendrum minahassae*, 137954.  
*Cliftonia monophylla*, 139210, 139211.  
*Clinopodium coccineum*, 139212.  
 Clover. See *Trifolium* spp.  
 fragrant. See *T. suaveolens*.  
 strawberry. See *T. resupinatum*.  
 subterranean. See *T. subterraneum*.  
 sweet. See *Melilotus indica*.  
 sweet, white. See *M. alba*.  
*Coelococcus amicarum*, 139252.  
*Coix lacryma-jobi* var. *ma-yuen*, 137939.  
*Colchicum autumnale*, 139255.  
*Cordia* sp., 137956.  
*dichotoma*, 137957.



- dodecandra*, 139135.  
*myxa*, 138797.  
*sebestena*, 139136.  
*subcordata*, 137955.  
*Coreopsis grandiflora*, 139214.  
*pubescens*, 139213.  
 Coriander. See *Coriandrum sativum*.  
*Coriandrum sativum*, 138498-138803.  
 Corn. See *Zea mays*.  
*Corypha elata*, 137958.  
 Cotton. See *Gossypium*.  
 Cow-parsnip. See *Heracleum* sp.  
 Cowpea. See *Vigna sinensis*.  
*Crataegus floridana*, 139215.  
 Cress, garden. See *Lepidium sativum*.  
*Crotalaria* sp., 137959, 139181.  
*Cucumis* sp., 138911.  
     *melo*, 138568.  
*Cymbopogon schoenanthus*, 138804.  
*Cyrtosperma merkusii*, 138956.  
  
*Danthonia semiannularis*, 138852.  
*Daucus carota*, 138569-138583.  
*Dendrocalamus asper*, 139270, 139271.  
*Descurainia sophia*, 138840.  
*Digitaria* spp., 138456-138459.  
     *horizontalis*, 138977, 138978.  
     *smutsii*, 138460.  
     *swazilandensis*, 138461.  
 Dill. See *Anethum graveolens*.  
*Dracaena* sp., 137960.  
  
 Eggplant. See *Solanum melongena*.  
*Elaeagnus*, autumn. See *Elaeagnus umbellata*.  
*Elaeagnus angustifolia*, 138805.  
     *umbellata*, 139216.  
*Eleusine indica*, 138979.  
 Elm. See *Ulmus macrocarpa*.  
     Chinese. See *U. pumila*.  
*Eragrostis* sp., 138980.  
*Eriobotrya japonica*, 139201.  
*Eruca sativa*, 138806.  
*Eucalyptus gracilis*, 138853.  
     *macrocarpa*, 138854.  
     *microcarpa*, 138855.  
     *oleosa*, 138856.  
*Eugenia curranii*, 137961.  
  
 Fennel. See *Foeniculum vulgare*.  
 Fenugreek. See *Trigonella foenum-graecum*.  
*Ficus* spp., 137962-137967.  
     *benjamina*, 137968.  
 Fig. See *Ficus* spp.  
 Flax. See *Linum usitatissimum*.  
*Foeniculum vulgare*, 138807, 138808.  
*Fraxinus* sp., 138809.  
*Fritillaria* sp., 139176.  
  
*Galanthus cilicicus*, 139177.  
*Garcinia* sp., 137969.  
 Gentian. See *Gentiana* sp.  
*Gentiana* sp., 138491.  
*Geonoma oxycarpa*, 138964.  
  
*Gerbera anandria*, 138690.  
 Ginger. See *Zingiber sylvaticum*.  
*Gladiolus* sp., 139194.  
*Glycine max*, 139183.  
*Gnetum gnemon*, 137970.  
*Gossypium*, 138455, 138479-138482, 138696, 138955.  
 Gourd, calabash. See *Lagenaria leucantha*.  
 Grapefruit. See *Citrus paradisi*.  
 Grass. See *Anthephora hermaphrodita*, *Avena* spp., *Axonopus* spp., *Bromus* sp., *Calamagrostis viridiflavescens*, *Digitaria* spp., *Eragrostis* sp., *Leptochloa domingensis*, *Panicum* spp., *Pappophorum nigricans*, *Paspalum* spp., *Pennisetum* spp., *Schimus barbatus*, *Setaria* spp., *Sporobolus* spp.  
 Guinea. See *Panicum maximum*.  
 Johnson. See *Sorghum halepense*.  
 molasses. See *Melinis minutiflora*.  
     wallaby. See *Danthonia semiannularis*.  
*Greigia sphacelata*, 138470.  
  
*Hedera nepalensis* var. *sinensis*, 138693.  
*Helianthus annuus*, 138810-138812.  
 Henna. See *Lawsonia inermis*.  
*Heracleum* sp., 138813.  
*Hevea brasiliensis*, 138473-138477, 138488.  
*Hibiscus*, 139186.  
     *kitaibelifolius*, 139137.  
*Hippocrepis* sp., 138697.  
 Hollyhock. See *Althaea rosea*.  
*Hordeum distichon*, 138717, 138721, 138723-138725, 138727.  
     *vulgare*, 138698-138716, 138718-138720, 138722, 138726. 138728, 138729.  
*Hyacinthus orientalis*, 139254.  
  
*Ilex coriacea*, 139217.  
*Impatiens* spp., 137971, 137972.  
 Indigobush. See *Amorpha fruticosa*.  
*Inocarpus edulis*, 138483.  
*Ipomoea batatas*, 137940.  
*Iris* spp., 138492, 138493, 138814, 139175.  
     *persica* var. *stenophylla*, 139174.  
  
*Jacaranda sagraeana*, 138505.  
 Jujube, Indian. See *Ziziphus mauritiana*.  
*Juniperus* sp., 138815.  
  
*Kochia georgei*, 138857.  
     *sedifolia*, 138858.  
*Koeleria phleoides*, 138816.  
 Kohlrabi. See *Brassica oleracea* var. *gongylodes*.

- Lactuca sativa*, 138584-138598, 138912.  
*Lagenaria leucantha*, 138599-138616.  
*Lathyrus cicera*, 138913-138919.  
*Lawsonia inermis*, 138817.  
 Leek. See *Allium porrum*.  
*Lens culinaris*, 138920-138928.  
 Lentil. See *Lens culinaris*.  
*Lepidium sativum*, 138929.  
*Leptochloa domingensis*, 138981.  
*Lespedeza* sp., 139182.  
 Lettuce, garden. See *Lactuca sativa*.  
*Leucothoe axillaris*, 139218.  
*Licuala* sp., 137973.  
*Ligustrum ciliatum*, 138689.  
*Lilium bakerianum*, 138463.  
     *giganteum*, 138464.  
     *nepalense*, 138465.  
     *ochraceum*, 138466.  
     *polyphyllum*, 138467.  
     *thomsonianum*, 138469.  
     *wallichianum*, 138468.  
 Lily. See *Lilium* spp.  
     giant. See *L. giganteum*.  
     Thomson. See *L. thomsonianum*.  
     wallich. See *L. wallichianum*.  
*Linum usitatissimum*, 138730-138732.  
 Lipoti. See *Eugenia curranii*.  
*Lolium multiflorum*, 138779.  
 Loquat. See *Eriobotrya japonica*.  
*Lycopersicon esculentum*, 138617-138631.  
*Lyonia lucida*, 139242.  
  
*Malus* spp., 139219-139238.  
     *sylvestris*, 139159, 139160, 139166-139168, 139190, 139191, 139272.  
*Malva* spp., 138494, 138495.  
*Manfreda tigrina*, 139239.  
*Medicago hispida*, 138742.  
     *hispida* var. *confinis*, 139256.  
     *laciniata*, 138733.  
     *littoralis*, 138734.  
     *obscura*, 139257.  
     *sativa*, 138735-138741.  
     *truncatula* var. *tribuloides*, 138859, 139258.  
 Medic. See *Medicago* spp.  
*Melilotus alba*, 138743.  
     *indica*, 138744.  
*Melinis minutiflora*, 138982.  
*Melothria* spp., 137974, 137975.  
*Mentha* sp., 138818.  
 Millet, broomcorn. See *Panicum miliaceum*.  
 Mombin, yellow. See *Spondias mombin*.  
*Murraya paniculata*, 137976.  
*Musa* spp., 137977, 137978.  
*Muscari* sp., 138496.  
 Muskmelon. See *Cucumis melo*.  
  
*Narcissus* sp., 138497.  
  
 Neem tree. See *Azadirachta indica*.  
 Nightshade. See *Solanum maglia*.  
*Nolina georgiana*, 139240.  
*Nothoscordum* sp., 137942.  
*Nyssa ogeche*, 139241.  
  
*Ocimum basilicum* var. *anisatum*, 138822.  
     *basilicum* var. *glabratum*, 138819, 138820.  
     *basilicum* var. *majus*, 138821.  
 Okra. See *Abelmoschus esculentus*.  
*Olea laurifolia*, 138478.  
     *verrucosa*, 139071.  
 Olive. See *Olea verrucosa*.  
*Oncosperma* sp., 138485.  
 Onion. See *Allium cepa*.  
 Orange. See *Citrus sinensis*.  
     Mandarin. See *Citrus reticulata*.  
*Oryza sativa*, 138992-139069.  
  
 Palm. See *Areca* sp., *Bornoa* spp., *Corypha elata*, *Geonoma oxycarpa*, *Licuala* sp., *Oncosperma* sp., *Pigafettia elata*, *Ptychosperma* sp., *Salakka edulis*.  
 grugru. See *Acrocomia aculeata*.  
 ivory-nut. See *Coelococcus amicarum*.  
*Panicum decipiens*, 138780.  
     *laxum*, 138983.  
     *maximum*, 138984.  
     *miliaceum*, 138745-138747.  
     *versicolor*, 138985.  
*Papaver* sp., 138498.  
*Pappophorum nigricans*, 138860.  
 Parsley. See *Petroselinum crispum*.  
*Paspalum conjugatum*, 138986.  
     *melanospermum*, 138987.  
 Pea. See *Pisum sativum*.  
 Peach. See *Amygdalus persica*.  
 Peanut. See *Arachis hypogaea*.  
*Pennisetum ciliare*, 139070.  
     *dichotomum*, 138823.  
*Petroselinum crispum*, 138824, 138930.  
*Petunia* spp., 138825, 138826.  
*Phaedranassa carmioli*, 137944.  
*Phaenocarpa* sp., 137980.  
     *speciosa*, 137979.  
*Phaseolus aureus*, 138931, 138932.  
     *vulgaris*, 138933-138944.  
*Pigafettia elata*, 138407.  
 Pigeon-pea. See *Cajanus cajan*.  
 Pine. See *Pinus tropicalis*.  
*Pinus tropicalis*, 139268.  
*Piper* sp., 137981.  
*Pisum sativum*, 138945.  
*Pleomele* sp., 137983.  
     *angustifolia*, 137982.  
 Plum. See *Prunus* sp.  
*Polygonella americana*, 139243.  
*Pongamia* sp., 137984.  
 Poppy. See *Papaver* sp.  
*Portulaca* sp., 139244.

- coronata*, 139246, 139247.  
*smallii*, 139245.  
*Premna* spp., 137985, 137986.  
*Prunus* spp., 138960, 139152, 139169-139171, 139192, 139203, 139248, 139249.  
*armeniaca*, 139151, 139161, 139162, 139202.  
*avium*, 138957-138959, 138967, 138968, 139134.  
*Psidium* sp., 138487.  
*Pterocarpus* sp., 137987.  
*Ptychosperma* sp., 138692.  
 Radish. See *Raphanus sativus*.  
 Ragi. See *Eleusine indica*.  
*Raphanus sativus*, 138632-138651, 138946.  
 Reed, giant. See *Arundo donax*.  
 Redpepper, common. See *Capsicum frutescens*.  
*Rheum* sp., 138499.  
*rhaponticum*, 139153, 139154, 139163, 139172, 139193.  
 Rhubarb, common. See *Rheum rhaponticum*.  
*Rhus* sp., 138827.  
 Rice. See *Oryza sativa*.  
*Ricinus communis*, 138947-138950.  
 Rocket-salad. See *Eruca sativa*.  
*Rosa* spp., 138828-138835.  
 Rose. See *Rosa* spp.  
 Rubbertree, Para. See *Hevea brasiliensis*.  
*Rubus* sp., 138970.  
 Russian-olive. See *Elaeagnus angustifolia*.  
 Ryegrass, Italian. See *Lolium multiflorum*.  
*Saccharum*, 138408-138415, 138972.  
*spontaneum* var. *aegyptiacum*, 138965.  
 Safflower. See *Carthamus tinctorius*.  
*Salakka edulis*, 137988, 137989.  
*Schefflera* sp., 137990.  
*Schismus barbatus*, 138836, 138861.  
*Scilla sibirica*, 138484.  
 Sebesten. See *Cordia myxa*.  
 Sesame. See *Sesamum indicum*.  
*Sesamum indicum*, 138837-138839.  
*Sesbania* sp., 137991.  
*Setaria* sp., 138988.  
*onurus*, 138781.  
 Shallot. See *Allium ascalonicum*.  
*Sida intricata*, 138862.  
 Snapweed. See *Impatiens* spp.  
*Solanum* spp., 138666, 138667, 138841.  
*andigenum*, 139138.  
*arracc-papa*, 139139.  
*candelarium*, 139140.  
*curtilobum*, 139141.  
*leptostigma*, 139142.  
*maglia*, 138863, 139143.  
*melongena*, 138652-138665.  
*neo-antipoviczii*, 139144.  
*otites*, 139145.  
*subtilius*, 139146.  
 Sorghum. See *Sorghum* spp.  
*Sorghum halepense*, 138989.  
*vulgare*, 138748, 138749.  
*vulgare* var. *sudanense*, 139184.  
 Soybean. See *Glycine max*.  
 Spinach, common. See *Spinacia oleracea*.  
*Spinacia oleracea*, 138668-138684, 138951, 138952.  
*Spondias* sp., 137993.  
*mombin*, 137992.  
*Sporobolus indicus*, 138990.  
*poiretti*, 138991.  
*pseudo-airoides*, 138782.  
*Stenomesson pearcei*, 139133.  
*Sterculia* sp., 137994.  
 Sugar cane. See *Saccharum*.  
 Summer-cypress. See *Kochia sedifolia*.  
 Sunflower, common. See *Helianthus annuus*.  
 Sweetpotato. See *Ipomoea batatas*.  
*Tabernaemontana* spp., 137995, 137996.  
*Talinum mengesii*, 139250.  
 Tara. See *Caesalpinia spinosa*.  
*Tephrosia* sp., 137997.  
*Theobroma* sp., 138451.  
 Tomato. See *Lycopersicon esculentum*.  
*Torreya taxifolia*, 139251.  
*Trichosanthes* spp., 137998, 137999, 138000.  
*Trifolium* sp., 138753.  
*alexandrinum*, 138462.  
*cernuum*, 139259.  
*glomeratum*, 139260.  
*lappaceum*, 139261.  
*polymorphum*, 138783.  
*resupinatum*, 139262.  
*suaveolens*, 138750-138752, 138842-138844.  
*subterraneum*, 139263-139266.  
*Trigonella foenum-graecum*, 138685-138688, 138953, 138954.  
*suavissima*, 139267.  
*Triticum aestivum*, 138453, 138454.  
*durum*, 138971.  
*Tulipa sprengeri*, 139178.  
 Tupelo. See *Nyssa ogeche*.  
 Turnip. See *Brassica rapa*.  
*Typha* sp., 138500.  
*Ulmus macrocarpa*, 138008-138018.  
*pumila*, 138019-138402.  
 Undetermined, 137943, 139269.  
*Uvaria* spp., 138002-138004.  
*Vallisneria spiralis*, 138504.  
*Verschaffeltia splendida*, 138005.  
*Vicia faba*, 138471, 138472, 138754-138763.

*Vigna cylindrica*, 138764.  
*sinensis*, 138765-138775, 139185.  
*Viola* spp., 138501, 138502.  
 Violet. See *Viola* spp.  
*Vitex* sp., 138845.

Wheat, common. See *Triticum*  
*aestivum*.  
*durum*. See *T. durum*.

Wheatgrass. See *Agropyron trachy-*  
*caulum*.

*Zea mays*, 139072-139131.  
*Zephyranthes* sp., 137941.  
*Zingiber* sp., 138006.  
*sylvaticum*, 138007, 138486.  
*Ziziphus* sp., 138849.  
*mauritiana*, 138846-138848.

