

Washington, D. C. $\nabla$ Issued August, 1942

PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY, APRIL 1 TO JUNE 30, 1937 (Nos. 123342 to 124625)


## INTRODUCTORY STATEMENT

This inventory, No. 131, records the plant material (Nos. 123342 to 124625) received by the Division of Plant Exploration and Introduction during the period from April 1 to June 30, 1937.

The botanical determinations of seeds introduced have been made and the nomenclature determined by Paul Russell, who has had general supervision of this inventory.

> B. Y. Morrison, Principal Horticulturist, in Charge.

Division of Plant Exploration and Introduction,
Washington, D. C., October 7, 1941.
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## INVENTORY ${ }^{\mathbf{2}}$

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

## 123342 to 123876. Punioa granatum L. Punicaceae. <br> Pomegranate.

From the Union of Soviet Socialist Repub1ics. Cuttings presented by Dr. A. Strebkova, Azerbaijan Experiment Station, Mardakjany, Caucasus. Received April 29, 1937.
123842. No. 670. Veles.
128348. No. G72. Kirmizi kabuch.
12834. No. ©88. Kara-Bala-mursal.
183345. No. 680. Zebeida.

1233\%8. No. 678. Han-nar.
123347. No. 665. Ohinei.
188348. No. 673. Schirinnar.
128349. No, 1. Vir. N. 1.
128350. No. 4430. N. 198.
128361. No. 4426. Veles.
123352. No. 4417. Gulosha.
183858. No. 4441. Schirin-nar.
128354. No. 4437. N. $\ddagger 63$.
183355. No. 4508. N. 51.
128356. No. 4547. N. 22.
128857. No. 4416. N. 209.
188358. No. 4494. Ferganski N. se.
189259. No. 4411. N. 450.
183360. No. 4422. N. 215.
123361. No. 4424. N. 217 .

## 128842 to 128878-Continued. <br> 128362. No. 4432. N. 201. <br> 128363. No. 4470. Schirin-nar. <br> 123364. No. 4447. N. 10. <br> 123365. No. 4414. Ochik kurinski. <br> 123366. No. 4541. Surh pechat. <br> 123867. No. 4468. Turech-np-. <br> 123868. No. 4463. N. 491. <br> 123369. No. 6420. Kai-nar. <br> 123370. No. 6421. Ochik-nar. <br> 123371. No. 6423. [No varietal name.] <br> 123372. No. 6444. Armud-schirin-nar. <br> 183373. No. 6451. Schoulanski N. 888. <br> 123374. No. 6446. Kirmbzi schoulanski N. 871. <br> 123875. No. 6443. Balsi-mursal (Kalinkabuk) <br> 123376. No. 6452. Kirmizi Kabuch grandjinski.

## 123877 and 123378 . Perilia nankinensis

 (Lour.) Decaisne. Menthaceae.From Japan. Seeds purchased from the Yokohama Nursery Co., Ltd., Yokohama. Received April 22, 1937.
For previous introduction see 45264.
123377. A form with green leaves.
123878. A form with red leaves.

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## 123379 to 123389.

From Costa Rica. Seeds collected by H. F. Loomis, Bureau of Plant Industry, United States Department of Agriculture. Received April 21, 1937.
123379. Acanthorhiza sp. Phoenicaceae. Palm.
Palma de escoba. A spiny-trunked, pal-mate-leaved palm about 15 feet high, found growing in dense woods.
123380. Astrocaryum alatum Loomis. Phoenicaceae. Palm.
A handsome tropical woodland palm, with a trunk 12 to 18 feet high and numerous moderately arching, dark-green pinnate leaves 18 tō 20 feet long. The large inping fruits are in dense terminal clusters. Native to the lowlands of Costa Rica.
123381 to 123383. Bactris spp. Phoenicaceae.

Palm.
123381. BaCtris sp.

Uiscoyol or Biscoyol. A slender, spinytrunked, cespitose palm 12 to 15 feet high. Inflorescence loose and with few seeds.

## 123382. Bactris mp.

Biscoyol. A different species from P. I. 123381, although given the same name. The denser inflorescence and the brightred fruits are smaller; the trunk is very spiny.

## 123383. Bactris sp.

Pacaya de denta. A small palm, less than 2 feet high. The small dense inforencence bore 20 bright-red fraits in a single cluster which was very showy. A very desirable addition to pation and shaded locations.
123384. Calyptrogyne sarapiquensis H. Wendl. Phoenlcaceat. Palm.
Cola de gallo; Suita. A Costa Rican pinnate-leaved palm, nearly stemless or with a short thick stem and numerous leaves 4 to 6 feet long. The young leaves are pinkish green and very handsome.
123385 to 123387. Geonoma spp. Phoenicaceae.

Palm.
123885. Gnonoma sp.

Palmito dulce. A. slender, smooth, single-trunked palm found in the forest. The pinnate leaves are very graceful, and the relatively large inflorencence is pinkish, loose, with the small black frults, less than a quarter of an inch in diameter, rather widely ecattered on the branches.
183386. Gmonown ip.

Surtuba. A slender, smooth-trunked palm, 12 to 15 feet high, which prefers moist locations in dense shade. The black fruits are rather sparsely placed

## 123379 to 123389-Continued.

on the thick branches of the rather pinkish inflorescence.
123387. Gronoma sp.

This is a different species from Surtuba (P. I. 123386); the dull purplishred inflorescence is somewhat larger, but the branches are much more slender and the fruits are about a quarter as large. 123388. Heliconin sp. Musaceae.

Platanillo. The inflorescence is erect when young but drooping with age; bracts dark red ; fruits bright china blue.
123389. (Undetermined.)

A bush or small slender tree, growing in dense woods. The mottled brown seeds, the slive and shape of medium-sized olives, are covered by thin bright-red flesh ands occur singly in a yellow fruit which splits into equal divisions at maturity, allowing the seed to drop.

## 123390 to 123398.

From India. Scions and seeds collected by Walter Koelz, Burean of Plant Industry, United States Department of Agriculture. Received May 1, 1937.
From the Fruit Research Station, Kodur, Madras Presidency, March 18, 1937.

123390 to 123392. Citrus spp. Rutaceuc. 123390. Citrus sp.

No. 1516. Fruit 4 to 5 inches long, like a rough lemon in most chazacters, very warty with prominent protuberances, petiole more prominent than in rough lemons. Root system very strong. 123391. Citrus sp.

No. 2517. A local bud sport. Fruit pale yellow, insipid. The tree is a vigorous grower and is used as stock.
123392. Citrues sp.

No. 2518. Kichu. The so-called "country" orange of the Madras area, possfbly related to the sour orange (Oitrus awrantium L.). Introduced under the name "maderaspatana," not considered a valid name.
188898 to 128397. MANGIFNRA INDICA.L. Anacardiaceae.

Mango.
183393. No. 2511. Neelum. A regular bearer giving two crops a year; fruits medium to small, stone medium mall, flavor good.
123394. No. 2512. Baneshan. Fruit small to medinm; skin thin and yellow. $\Delta$ good keeper and an important commercial variety of Cyearl.
183895. No. 2513. Alampur Baneshan. A medlum-aized fruit, long and tapering to the tip, blotched green and yellow; stone small, skin thin, fiberless; the best mango of the district.

## 128590 to 123398-Continnerd

188386. Na 2514. Mulgoa. Fruit green, of good flayor aped no flber; skin thick; a good keeper,
188387. Np, 2515. Rumani. A consistent and regular bearer, giving two crops a year over a longer period than Neelum. Fruit round and larger than Neelum, but not so good in flavor or go good a keeper ; color green, inclined to yellow. One of the best commercial mangoes of the Presidency.
128988, NyMPHaya sp. Nymphaeaceae.
No. 2519. Flowers white, 3 to 5 inches across, borne above the water.
123399 to 123401. Phaseolus vulgaris L. Fabaceae.

Common bean.
From Australia. Seeds presented by S. Fish, Biological Branch, Plant Research Laboratory, Burniey Gardens, Burnley, Victoria. Received April 28, 1937.
123s99. Ganadian Wonder (Burnley Selection).
188400. Pale Dun.
123401. Yarra.

## 123408 to 108410.

Prom the Union of Soviet Socialist Republics. Seeds presented by the Director, Botanic Garden, Leningrad. Received April 26, 1987.
123402. ALLiUM Ledibourianum Schult. f. Lillaceae.
A stout-stemmed allum 1 to 2 feet high, native to the Altai region in Slberia. The linear leaves are terete, and the rosy-pink flowers are in dense hemispherical umbels about 1 inch in diameter.

For previous introduction see 104885.
128403. AlLiva sp. Liliaceae.

Received as Allium moly, but the seeds are not of that species.
123404. AlliUm sp. Liliaceae.
123405. Beraminia pacifica Komarov. Saxifragaceae.
4 woody perennial with elliptic leaves 2 to 6 inches long, hardly evergreen, and flowering stems over a foot high, with racemes of many showy red flowers. It may be a variety of Bergenia crassifolia. Native to northeastern Asia.
188406. Pabrotia pmbsica (DC.) Meyer. Hamamelidaceae. Persian parrotia.
A shrub or small tree up to 15 feet high, with spreading branches and ovateoblong, coarsely crenate leaves 3 to 4 inches long, which turn scarlet, yellow, and orange in the autumn and remain on the branches a long time. The flower heads, which appear in March before the leaves, are rather inconspicuous except for the pendent purple stamens; the ovoid

## 123402 to 123410 -Continued.

fruits are half an inch long with recurved lobes. Native to Iran [Persia].

For previous introduction see 118381.
123407. PHiladelphos tindoifolides Rupr. Hydrangeaceae.
A shrub up to 8 feet high with slendar spreading branches, thin ovate-oblong leaves 2 to 5 inches long, and greenishwhite, slightly fragrant flowers 1 inch across, in small racemes. Native to Manchuria.
128408 to 123410. Rosa spp. Rosaceae.
Rose.

## 123408. Rosa amblyotis Meyer.

A stout-branched shrub with purple stems, native to Siberia. The leaflets are usually 7 , the pink flowers are molitary, and the fruits are about one-half inch long.

For previous introduction see 54172. 123409. Rosa glauca Vill.

A European shrub closely related to Rosa canina, but having broadly ovate, bluish-green leaflets and purplish flowers.

For previous introduction see 64207 . 123410. Rosa tuschetica Boigs.

A low shrub, native to the Caucasus region, with small, firm ovate leaflets and solitary pink flowers.

For previous introduction see 54155 .
123411 to 123416. Trifolion Praterisk
I. Fabaceae.

Red elovez.
From the Union of Soviet Socialist Repubifics.
Seeds presented by Prof. P. I. Lisitayn,
Plant Breeding Station, Moscow. Received April 28, 1937.
A collection of rad clover atrains with the corolla tube of shorter length than mormaj.
123411. No. 121.
128412. No. 304.
128418. No. 807.
128414. No. 317.
123415. No. 318.
128416. No. 310.
128417. Viola altaica Ker. Violaceae.

From the Netherlands. Seeds presented by the Director, Botanic Garden, Leyden. Received April 26, 1937.
A hardy perennial violet with short stems, ovate, crenate leaves having long channeled petioles, and a single large pale-yellow flower on a stout scapelike peduncle. Native to the Altai region, Siberia.
128418. RHODODENDRON ALBRECHTII Maxim. Ericaceae.
From North Wales. Seeds presented by Lard Aberconway, Bodnant, Tal-y-Cafa. Received April 26, 1937.

## 123418-Continued.

: A deciduous shrub 3 to 5 feet high, with obovate to oblanceolate membranous leaves whieh turn yellow in autumn. The rotatecampanulate, red-purple flowers, 2 inches across, In clusters of three to five, appear with the leaves. It is somewhat like Rhododendron schlippenbachii and is native to Jápan.

For previous introduction see 117066.
123419. Hedera hetix L. Araliaceae.

## English ivy.

From the Netherlands. Seeds presented by the Director, Botanic Garden, Amsterdam. Received April 28, 1937.

## Variety Digitata.

123420 and 123421. Obyza sativa L. Poaceae. Rice.
From Italy. Seeds presented by Stazione Sperim, Risicoltura, Vercelli. Received April 26, 1937.
123420. General Rossi.
123421. Gigante Vercelli.

128422 and 123428. Oryza sativa L. Poaceae.

Rice.
From India. Seeds presented by the Botanical Laboratory, Titabar Farm, Titabar. Received May 6, 1837.
123422. Bengali jaha. No.226.
128423. Jahari. No. 240.
123424. GOSSYPIUM PALMERII Watt. Malvaceae.

Cotton.
From Mexico. Seeds collected by George B. Hinton, in Pungarabato, and presented through the Division of Cotton and Other Fiber Crops and Diseases. Received May 6, 1937.
A much-branched shrub with leaves mostly linear, 1 to $31 / 2$ inches long, sometimes 3 lobed, and small pale-yellow flowers followed by small fruits with fuzzy seeds. Native to Mexico.
123425. Episcia cupreata (Hook.) Hanst. (Achimenes cupreata Hook.). Gesperiaceae.
From Puerto Rico. Plants presented by T. B. McClelland, Superintendent, Agricultural Experiment Station, Mayaguez. Received July 21, 1934. Numbered May 6, 1937.
A tender perennial a few inches high, suitable for warm house culture. Under favorable conditions it produces a mass of stolons extending several feet from the mother plant. The entire plant is covered with soft hairs, and the ovate crinkled leaves are copper tinged above; the small solitary flowers are scarlet red. Native to Colombia.

## 123426 to 123432.

From England. Plants presented by Sir Arthur W. Hill, Director, Royal Botanic Gardens, Kew, Surrey. Recelved May 7, 1937. 123426. Ardndinaria ancerp Mitf. Poaceae.

Bamboo.
Because of the uncertainty of its origin, this arundinaria was named anceps (doubtful). It is now believed to be native to northern India. The culms are round and slender and are reported to grow 10 to 15 feet high in England. On small plants there are 2 or 3 branches at each node, with rather long branchlets having 8 to 10 linear-lanceolate leaves. The leaves are light green, over 2 inches long and three-eighths of an inch wide. The tessellation (cross venation) is minute and unusually regular.
123427. Chimonobambusa falcata (Nees)

Nakal (Arundinaria falcata Nees). Poaceae.

Bamboo.
A slender clump bamboo growing to a height of 20 feet, but not exceeding onehalf inch in diameter, having the young stems covered with a bluish-white, waxy coating soon turning yellowish green. The light-green, striate-veined leaves are 4 to 6 inches long by one-third of an inch wide, with downy sheaths. The species is not very hardy, being native to the lower slopes of the Himalayas in nortuwestern India.

For previous introduction see 110335.
123428. Thamnocalamus falconeri Hook.
f. (Arundinaria falconeri (Van Houtte)
A. and C. Rivicre). Poaceae. Bamboo.

A bamboo with a cylindrical culm, which, when young, has 8 to 10 branches at each node; these branches vary in length, are exceedingly slender, often purplish in color, and have 4 to 7 leaves gathered near the tips. The leaves are lanceolate, $11 / 2$ to 4 inches long by $3 / 16$ to $3 / 8$ of an inch wide. The slenderness of the branches gives this bamboo a distinctive beauty.

For previous introduction see 114413.
123429. Chimonobambusa marmorea (Mitf.) Makino (Arundinaria marmorea (Mitf.) Makino). Poaceae.

Bamboo.
A small bamboo growing 3 feet or more high. The internodes of the culm are very short, with 3 branches at each node, 2 short and 1 long. The bright-green, nearly sessile leaves are up to $41 / 2$ inches long by $3 / 8$ to $5 / 8$ of an inch wide, rough on both sides and with tessellated venations. The degree of hardiness of the plant is not deflnitely known, though it is reported to have withstood a temperature of about $8^{\circ}$ F. without injury in England.

For previous introduction see 116089.

## 123426 to 123432 -Continued.

123480. Sinarundinaria murielat, (Gamble) Nakal (Arundinaria murielae Gamble). Poaceae.

Bamboo.
A handsome bamboo, understood to grow to a height of 10 to 15 feet. It is reported to produce masses of culms, which is unnusual for hardy bamboos. The culms turn to a rich yellow with age, and there are 1 to many branches at the nodes. On small plants a branch may bear 2 to 3 leaves up to $2 \frac{1}{4}$ inches long by $7 / 16$ of an inch wide. There are usually 3 pairs of socondary veins and the intermediates are 5 to 8 . The tessellation is rather close.

For previous introduction see 90302.
128481. Thamnocalamus $\because$ spathiflorus (Trin.) Munro (Arundinaria spathiflora Trin.). Poaceae.

Bamboo.
A rare bamboo, said to grow in clumps with slender culms up to 35 feet high and with branches tufted at the nodes; the narrow leaves, up to 6 inches long, are gathered 2 to 4 at the ends of the branchlets.

For previous introduction see 114413.
188438. PHYLLOSTACHYB SULPHURIA VIRIDIS Young (Phyllostachys mitts A. and C. Riviere). Poaceae.

Bamboo.
A Chinese bamboo up to 30 feet high, with yellow stems and brown-spotted sheaths.
123433 to 123438 . LyCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.
From Morocco. 'Seeds presented by H. Brayard, Directeur, Station Experimentale de Marrakech. Received May 4, 1937.
123133. Aurore.
183434. Hatif de Cologne.
123435. Gloria de Mordin.
128436. Reine de Reives.
123487. Potager de Viljoule.
128488. Sans Parcille.

123439 to 123441. Soja max (L.) Piper. Fabaceae.

Soybean.
From Burma, India. Seeds presented by Rev. R. S. Buker, Kentung. Received May 10, 1837.
123439. No. 1. A small straw-yellow bean with brown hilum.
123440. No. 2. A medium-small, straw-yellow seed, slightly brown, cloudy, hilum dark brown.
123441. No. 3. A médium-sized, yellowishgreen seed with light- to dark-brown hilum.

## 123442 to 123450.

From France. Seeds presented by R. Salgues, Director, Brignoles Botanic Garden. Received May 10, 1937.

## 123442 to 123450 - Continued.

129442. Astragalus giycyphyilos L. Fabaceae. Milkvetch.
A prostrate, spreading, herbaceous perennial, native to Asia Minor.

For previous introduction see 104560.
123443. Astragalus hamosus L. Fabaceae. Milkvetch.
An annual, gray-green hairy plant, with prostrate or ascending stems 8 inches to 1 foot long. It is native to sunny places in the Mediterranean countries.

For previous introduction see $\mathbf{7 8 7 6 5}$.
123444. BRACHYPODIUM PHONNICOIDES (L.) Roem. and Schult. Poaceae. Grass.
A perennial European grass 1 to 2 feet high, with narrowly linear leaves, slender stems, and narrow flower clusters having oblong spikelets sessile on the axis.

For previous introduction see 76759.
123445. Cucumis mblo L. Cucurbitaceae.

Muskmelon.
123446. Lathyrus aphaca L. Fabaceae.

Pea.
A semiprostrate or ascending yellowflowered leguminous herb, native to Asia Minor.

For previous introduction see 69856.
123447. Lavatera olbia L. Malvaceae.

Treemallow.
A shrubby perennial, native to southern Europe, about 6 feet in height. The 3- or 5 -lobed oblong leaves are softly hairy, and the solitary, reddish-purple flowers are sometimes over 2 inches across.

For previous introduction see 58650.
123448. Rubia plerigrina L. Rubiaceae.

A herbaceous perennial climber with whorled oblong or lanceolate leathery leaves. Native to the Mediterranean region.
123449. Stachys recta L. Menthaceae.

A tall herbaceous perennial with erect or ascending stems about 2 feet high, crenate oblong-ovate or lanceolate leaves 1 to $11 / 2$ inches long, and distant whorls of about 10 yellowish-white flowers. Native to southern Europe.
123450. Vicia melanops Sibth. and Smith.

Fabaceae.

## 123451 to 123576.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agricalture. Received April 26, 1937.
Unless otherwise mentioned, this material was all collected in the Madras Presidency in February and March, 1937.

123451 and 123452. Abelmoschus mscuLentus (L.) Moench. Okra.

## 123451 to 123576 -Continued.

128451. No. 2429. Bendikai. From Mangalore, March 1. White fruit, 6 inches long, from a plant 5 feet high.
128452. No. 2444, Bendikai. From Kasargod.
128453. Acacia sp. Mimosaceae.

No. 2334. From Ootacamund, Nilgiri Hills, February 16, at 7,000 feet altitude. A quick-growing tree with attractive foliage and an abundance of fragrant creamy flowers. Often planted in groves.
123454. Adina cordifolia (Roxb.) Benth. and Hook. Rubiaceae.
No. 2450. From Nilambur, March 4. A large handsome deciduous tree found in the foothills of the Himalayas from Jumna eastward up to 3,000 feet altitude. The leaves are cordate, and the yellow flowers are borne in small heads.

For previous introduction see 116769 .
123455 and 123456. Amaranthus spp. Amaranthaceae.
From Kasargod, March 3. Used as a potherb.
123456. Amaranthus sp.

No. 2442. Chore Chira.
123456. amaranthus sp.

No. 2445. Belta Ohira.
123457. Artocarpus sp. Moraceae.

No. 2426. From Bangalore, February 28. An attractive tree with small deeply toothed leaves 6 inches long. The flavorless, papillose fruit is as large as a grapefruit.
123458. Badhinia sp. Caesalpiniaceae.

No. 2453. From Nilambur, March 4. A medium-sized tree, found in teak forests with pods 18 by $11 / 4$ inches.
123459. Begonia sp. Begoniaceae.

No. 11039. From Ootacamund, Nilgiri Hills, February 16, at 7,000 feet altitude. A perennial with attractive cerise flowers, growing in moss on rock faces in the rain forest.
123460 to 123465. BENINCASA HISPIDA (Thunb.) Cogn. Cucurbitaceae.

Waxgourd.
Nos. 123460 and 123461 were presented by the Superintendent of the Rice Research Station at Petambi, February 22.
123460. No. 2384. Kumbalanga. A smooth elongate fruit 2 feet long, covered with bloom; a good keeper; used as a vegetable and for confections.
123461. No. 2388. Vaidyam Kumbalanga. A small fruit 6 inches long, used only in medicine.
123462. No. 2419. Kumbalanga. From Mangalore, February 27. Fruit elon-

## 123451 to 123576 --Continued.

gate, 16 by 14 inches, pale green, no bloom, used as a vegetabie.
123463. No. 2420. Kumalakai. From Mangalore, February 27. Fruit subglobose, 6 to 8 inches in diameter, covered with bloom, used as a vegetable.
12346s. No. 2435. Nareyan Kumbalanga. From Kasargod, March 2. Said to be a large form covered with bloom.
123465. No. 2470. From Madura, March 7. Fruit elongate, 18 inches long by 12 inches across, covered with heavy bloom; used as a vegetable and for candying.
123466. Bignonia sp. Bignoniaceae.

No. 2495. From Bangalore, Mysore State, February 9. A vigorous climber, used on trellises.
128467. Calophyllum inophyclum L. Clusiaceae.
No. 2431. From Kasargod, March 2. A large tree with leaves like those of the magnolia; producing fruits about 1 inch in diameter. A bitter aromatic greenish oll is extracted from the seeds and used for illumination by the poorer classes. The strong durable reddish wood is used by cabinetmakers, also for masts and railway ties.

For previous introduction see 80684.
123468 to 123476. CAPSICUM ANNUUM L. Solanaceae.

Common redpepper.
183468. No. 2383. From Shoranur, March 23. Fruit pointed, $11 / 2$ inches long, red, very hot.
123469, No. 2428. From Mangalore, March 1. Fruit top-shaped, 1 to $11 / 2$ inches high; red, very pungent.
123470. No. 2411. Manesru. From Kasargod, February 27. Fruit pointed, 2 to 3 inches long by 1 inch broad; red, hot.
123471. No. 2402. Monji. From Tellicherry, February 25. Strains No. 2400 to 2404 are much alike, but vary in length and width; said to be distinct.
128472. No. 2410. Manesru. From Kasargod, February 27. Fruit pointed, 4 inches long by $1 / 2$ to $8 / 4$ of an inch wide ; red, hot.
123473. No. 2404. Morigi. From Tellicherry, February 25.
123474. No. 2401. Morlgi. From Tellicherry, February 25. Like No. 2400 (P. I. No. 123475), but shorter.
123475. No. 2400 . Morigi. From Tellicherry, February 25. Fruit red, pointed, to 3 inches long; hot.
123476. No. 2403. Morigi. From Tellicherry, February 25.

## 123451 to 123576-Continued.

123477. Casmia alata L. Caesalpiniaceae. Ringworm cassia.
No. 2496. From Mangalore, March 1. A shrub up to 10 feet high, sometimes cultivated as an ornamental, with pinnate leaves 2 feet long and showy yellow flowers. Native to tropical Amertca.

For previous introduction see 106487.
183478. Cassia sp. Caesalpiniaceae.

No. 2465. From Nilambur, March 6. A well-shaped thorny bush about 8 feet high, probably yellow flowered.
123479 to 123492. Citrullus volgaris Schrad. Cucurbitaceae. Watermelon,
123479. No. 1. Mettupalaiyam. From Mettupalaiyam, February 21. Frutt subglobose, 10 inches long, with fine verniculations of darker green, distinctly and abundantly ribbed; flesh red; rind $1 / 4$ of an inch thick, the thinnest rind observed on this expedition.
123480. No. 2: From Coimbatore, February 21. Fruit globose, 8 inebes in diameter, green with the irregular lines of darker green ; flesh red, seedy ; rind thin.
189481. No. 3. From Coimbatore, February 21. Fruit subglobose, 1 foot in diameter, green with broad blotched lines of darker green; flesh red; rind 1 inch thick.
123482. No. 4. From Coimbatore, February 21. Fruit subglobose, deep green with discernible blotched stripes of darker green ; flemh red; texture good, blending into the half-inch green rind; seeds large.
183483. No, 2320. From Coimbatore, February 12. Fruit subglobose, 14 inches long, deep green, veined darker ; flesh red; rind three-fourths of an inch thick.
Nom. 123484 to 123486 were presented Dy the Superintendent of the Rice Remearch Station, Petambi, February 22.
123484. No. 2390. Kummatti. Described as like a small watermelon, but used as a curry vegetable.
128485. No. 2391. Kummatti. Like No. 2390 (P. I. 123485), but of a different race.
123486. No. 2392. Chakkaravellari. Fruit globose, $\boldsymbol{\theta}$ to 10 inches in diameter, smooth, green mottled; flesh red and sweet.
128487. No. 2397. Vataka. From Tellicherry, February 24. Fruit globose, 6 to 8 inches in diameter, green, reticulated; tesh white and pink, crisp, low in sugar content; early.

## 123451 to 123576-Continued.

128488. No. 2408. From Payyanur, February 26. Fruit globose, 8 inches in diameter, pale green. with broad blotched ribs of darker green; flesh red, low sugar content.
128489. No. 2409. Vataka. From Kasargod, February 26. Fruit globose, 6 inches in diameter, pale green, reticulated; flesh red, insipid.
128490. No. 2417. From Mangalore, February 27 , but the fruit is said to have come from Kundapur. Fruit subglobose, 1 foot in diameter; pale green, reticulated; flesh red.
128491. No. 2418. Vataka. From Mangalore, February 27, but said to have come from Kundapur. Fruit subglobose, 1 foot in diameter, deep green with rib lines darker green ; rind thick, flesh red; few seeds.
128492. No. 2466. Purchased in Madura, March 7.
128493 to 128506. Cucumis milo L. Cucurbitaceae.

Maskmelon.
From Coimbatore, February 21.
123493. No. 1. Fruit small, gold brown with broad rib lines, often flattened, 6 by 8 inches; flesh mealy, sweetish, 2 tuches thick, half green and half salmon-colored.
123494. No. 2. Fruit subglobose, 41/2 inches in diameter, brownish yellow, mottled, traces of irregular ribs; flesh 1 inch thick, salmon-colored, fuicy, acid.
123495. No. 3. Fruit banana-shaped, often nearly 18 inches long, smooth, golden yellow, more or less blotched with green; flesh mealy, white, neutral, inclined to be acid.
12s496. No. 4. Fruit 6 by 4 inches, unribbed, lemon yellow, netted; flesh pale malmon, juicy, not acid, but of an interesting flavor.
183497. No. 5. Fruit subglobose, 5 inches in diameter, smooth, pink brown with broad green rib lines, flesh $8 / 4$ of an inch thick, half green, hall salmoncolored, juicy, neutral.
123498. No. 6. Fruit globose, 6 inches in diameter, yellow blotched green with deep green ribs; flesh $11 / 4$ inches thick, varying in color from salmon at center to half green near the rind; pleasantly acid.
123499. No. 7. Fruit subglobose, 4 by $31 / 2$ inches, red brown with conspicuous ribs of pale netting; flesh $8 / 4$ of an fnch thick, fragrant, acid.

## 123451 to 123576-Continued.

123500. No. 8. Fruit subglobose, 6 by 4 inches, orange and greenish black, flecked, netted; flesh salmon-colored. $11 / 2$ inches thick, mealy, acid.
123501. No. 9. Fruit elongate, 10 by 6 inches, yellow to orange with green shading and more or less green ribbing; flesh salmon-colored, $11 / 2$ inches thick, mealy, subacid.
123502. No. 10. Fruit oblong, 6 inches long, red brown, nearly smooth, with broad green ribs ; flesh salmon-colored, $11 / 2$ inches thick with the seeds embedded, rather sweet, interesting, juicy.
123503. No. 11. Fruit subglobose, 10 by 5 inches, golden-brown, finely flecked with dark green, smooth, unribbed; flesh $18 / 4$ inches thick, salmon-colored, mealy, fragrant and pleasantly acid.
123504. No. 12. Frult globose, 6 inches in diameter, yellow, heavily netted, ribbed ; flesh firm, pale salmon-colored, $13 / 4$ inches thick with embedded seeds; sweetish. A good keeper.
123505. No. 13. Fruit subglobose, 5 inches in diameter, smooth, red brown, not ribbed; flesh yellow, rather juicy, neutral with delicate flavor.
123506. No. 14. Fruit 6 by 3 inches, yellow, blotched brown; rind firm; flesh white, sweetish with seeds embedded.
123507 to 123516. Cucumis sativus L. Cucurbitaceae.

Cucumber.
123507. No. 2389. Kakiri. From Petambi, February 22. Presented by the Superintendent of the Rice Research Station. An elongate fruit with small spines and crisp flesh.
123508. No. 2439. Kakerika. From Kasargod, March 2.
128509. No. 2467 . FromMadura, March 7.
123510. No. 246 8. From Madura, March 7.
123511. No. 2382. Walerika. From Petambi, February 22. Fruit about 16 inches long and 6 inches wide, inclined to taper toward the stem, yellow, netted or blotched with dark green; flesh firm; a good keeper.
123512. No. 2385. Walerika. Presented by the Superintendent of the Rice Research Station, Petambi, February 22. Probably a long cucumber; a good keeper.
123513. No. 2399. Walerika. From Tellicherry, February 25. Fruit eggshaped, 6 inches long, green and yellow, variously marked; flesh good; keeps for months.

## 123451 to 123576 -Continued.

123514. No. 2421. Walerilaa. From Mangalore, February 27. Fruit 14 by 6 inches, tapering at both ends but sharply so at the stem end, orangecolored, netted with deep green. This variety will not keep over 3 or 4 months.
123515. No. 2440. Unda Kakeri. From Kasargod, March 2. Said to be 18 inches long.
123516. No. 2452. From Nilambur, March 14. Fruit ovoid, about 3 inches long, green, ribbed white, smooth ; flesh bitter. A good keeper.
123517. Cucumis sp. Cucurbitaceae.

No. 2398. From Tellicherry, February 24. Fruit oval, 1 foot long, orange yellow, more or less ribbed green, or the reverse; flesh firm, keeps for months. Attractive fruits and flesh of good quality; interesting novelty.
123518. Cucumis sp. Cucurbitaceae.

No. 2441. From Kasargod, March 2.
123519 to 128523. Cucurbita moschata Duchesne. Cucurbitaceae. Cushaw.
123519. No. 2305. From Bangalore, Mysore State, February 9. Fruit ovoid, buff brown, weighs about 30 pounds, flesh coarse and not very sweet; grown in the summer and will keep for 6 months.
123520. No. 2386. Matabar. Presented by the Superintendent of the Rice Research Station at Petambi, February 22. Fruit yellow, flattened, ridged, 1 to 2 feet in diameter; flesh slightly sweet. A good keeper.
123521. No. 2416. Mattan. From Kasargod, February 27. Fruit flattened, 18 by 12 inches, ribbed, ṣmooth, buff pink. A good keeper.
123582. No. 2469. Mattan. From Madura, March 7. Fruit flattened, strongly ribbed, creamy buff to red buff, 18 by 12 inches. Keeps for several months.
123523. No. 2407. From Kasargod, February 26. Fruit cucumber-shaped, 14 by 5 or 6 inches, smooth orange-colored; sald to be a good keeper; flesh rather insipid.
123524. Caryota sp. Phoenicaceae. Palm.

No. 2432. From Kasargod, March 2. An attractive palm about 10 feet high.
123525. Dolichos lablab L. Fabaceae.

Hyacinth-bean.
No. 2456. From Madura, March 7. Useđ either as green or dry beans; tolerates dry conditions.

## 123451 to 123576 -Continued.

189586. DoLichos Lablab L. Fabaceae. Hyacinth-bean.
No. 2476. Awara Kai. From Kodai Kanal, Palni Hills, at 7,500 feet altitude, but said to have come from the plains below.
189587. Flafiocarpus sp. Elaeocarpaceae.

No. 2485. From Kodai Kanal, Palni Hills, at 7,500 feet altitude, March 13. A tree found in the rain forest; the fruit is apparently eaten by animals.
188528. FICUS ASPERRIMA Roxb. Moraceae.

No. 2381. From Petambi, February 22. A small clinging shrub 12 feet high, growing on the trunk of a tree; covered with attractive orange fruits.
183529. Flacourtia montana J. Grah. Flacourtiaceae.
No. 2380. From Petambi, February 22. A large handsome evergreen tree with large shiny elliptical leaves and an abundance of attractive fruit of the size of small cherries with their taste and color.
123530. Flacourtia sp. Flacourtiaceae.

No. 2425. From Mangalore, February 28. A beautiful well-formed tree with elliptical, evergreen leaves and crimson fruits with an agreeable actd flavor.
128581. Fucrisia sp. Onagraceae.

No. 2340. From Ootacamund, Nilgiri Hills, February 16, at 7,000 feet altitude. A scraggly shrub 8 feet tall, with long pendent racemes of large cerise flowers. Found growing in thickets.
128582. Garcinia sp. Clusiaceae.

No. 2427. From Mangaloré, March 1. Fruit tomato-shaped 2 inches long; skin purple red; pulp acid, not pleasant. Tree not seen.
183533. Laginaria lbucantha (Duchegne) Rusby. Cucurbitaceae. Calabash gourd.
No. 2393. Oharanga. Gift of the Superintendent, Rice Research Station, Petambi, February 22. A mixture of necked and round varieties, used as vegetables when young and tender and as dippers and containers when ripe.
123534. Lagenaria leucantia (Duchebne) Rusby. Cucurbitaceae. Calabash gourd. No. 2434. Oharenga. From Kasargod, March 2.

## 183585. Lavandolas sp. Menthaceae.

No. 2493. From Kodai Kanal, Palni Hills, at 7,590 feet altitude, March 14. A perennial 4 feet high, found on open slopes. The fleshy, hairy leaves are arranged closely in fours, and the flowers are in dense spikes 3 to 4 inches long.

## 123451 to 123576-Continued.

1835s6. Luefra acutangula (L.) Roxb. Cucurbitaceae. Singkwa towelgourd.
No. 2430. From Mangalore, March 1. Fruit 1 foot long and ridged.
128537. LUFFA CYLindrica (L.) Roemer. Cucurbitaceae. Suakwa towelgourd.
No. 2451. From Nilambur, March 4. Fruit smooth, elongate, 4 by $1 \%$ inches. Of possible interest to breeders and gourd growers.
123538. Lycopersicon msculentum Mill. Solanaceae.

Tomato.
No. 2396. From Sharanur, February 2. Fruit red, 2 inches long.
188589. Momordica charantia L. Cucurbitaceae.

Balsam-pear.
No. 2887. Kaypakka. Presented by the Superintendent, Rice Research Station, Petambi, February 22. Frult 6 to 12 inches long, used as a tonic for stomach trouble. 183540. Castalia pubescens (Willd.)

Woodr. and Wood. Nymphaeaceae.
No. 2406. From Kasargod, February 26. A slightly fragrant, very attractive, dayblooming waterlily, 6 inches across with large purplish-green, toothed, reniform leaves, scabrous above, and purple-red flowers borne 6 inches above the water.
183541. NyMPHAEA STELLATA Willd. Nymphaeaceae.
No. 2423. From Tellicherry, February 25. The tragrant, day-blooming white flowers, about 3 inches across, are borne about 6 inches above the surface of the water of shallow ponds.
183542. NYMPHAILA ETELLLATA Willd. Nymphaeaceae.
No. 2424. Putali. From Mangalore, March 1. A lily growing in a pond 6 feet deep. The fragrant flowers, white flushed pink on the outer petals, are 4 inches across and bloom in the daytime; they are borne 6 inches above the surface of the water.

## 128548. OnNOTHERA sp. Onagraceae.

No. 2472. From Kodai Kanal, Palni Hills, at 7,500 feet altitude. A biennial up to 4 feet high, with large yellow flowers about 2 inches across.
123544. Osbmcila sp. Melastomaceae.

No. 2341. From Kotagiri, Nilgiri Hills, February 18, at 6,000 feet altitude. A low shrub about 4 feet high, with large purple flowers; found growing on open slopes.
123545 to $\mathbf{1 2 3 5 5 0}$. Oryza sativa L. Poaceae. Rice.
From Coimbatore, February 21.
123545. No. 2344. 183547. No. 2356.
123546. No. 2355. 123548. No. 2359.

123451 to 123578 --Continued.
183549. No. $2370 . \quad 123550$. No. 2497. 183551 to 123555. Phaseolus spp. Fabaceae. Bean.
123551. PEaseolus lunatue $L$.

Lima bean.
No. 2415. Walaawawara. From Kasargod, February 27. Beans used both as green Deans and dried.

123552 to 123555. PEAgnoide vULearis L. Common bean.
Nos. 123552 and 123553 were from Kodai Kanal, Palni Hills, at 7,500 feet altitude, March 11. Used as green pods or dried beans.
123552. No. $2477 . \quad 188554$, No. 2481. 188558. No. 2478.
123555. No. 2443. Avore. From Kassrgod, March 2. Green pods eaten.
123556. Pisum sativum L. Fabaceae.

Pea.
No. 2433. From Mangalore, March 2. Said to have come from Bombay.
128557. Pigum sativuac L. Fabaceae.

Pea.
No. 2482. From Kodai Kanal, Palni Hills, March 11, at 7,500 feet altitude. Vines 3 feet high, free from disease, but the green peas are not sweet.
128558. PONGAMIA PINNATA ( $L_{h}$ ) W. F. Wight. Fabaceae.
No. 2200. From Mandasma, January 27. A. large dense attractive tree, used for roadside planting.
128559. RHODODENDRON AREORNUM J. E. Smith. Fricacene. Tree rhododondron. No. 2492. From Kodai Kanal, Palni Hills, March 14, at 7,500 feet slititude. A scrubby tree, often 2 feet in diameter and only 25 feet high, growing on most isolated slopes where no other trees grow. Flowers crimson, sometimes spotted with black.

For previous introduction see 122127.
123560. Rubus sp. Rosaceae.

No. 2332. From Ootacamund, Nilgiri Fills, February 15, at 7,000 feet altitude. A scandent shrub growing on the edge of the forest to a height of 30 feet and covered with sour, black-red iruits which are hard to separate from the calyz.
198561. Salvia Coccinisa Juss. Menthaceae.

No. 2489. From Kodai Kanal, Palni Hills, February 13, at 7;500 feet altitude. A small herb up to 18 inches high, with spikes of rather large scarlet flowers, growing along a roadside.

For previous introduction see 13688. 123562. Saxifraga sp. Saxifragaceae.

## 123451 to 123576 m-Continued.

No. 2327. From Ootacamund, Nigiri Hills, February 14, at 7,000 feet altitude on open isolated slopes. Growing in clumps with thiok fleshy leaves on a stem 4 feet high which bears a corymb of large persistent yellow flowers.
123563 to 123566. SoLANUM spp. Solanaceae.
123568 and 123564. SOLANUM MELONGENA L. Eggplant.

Baden Kai From Kasargod, February 27.
123563. No. 2413. Fruit almost round, 5 to 6 inches across, green with darker green mantle.
123564. No. 2414. Fruit ovoid, 5 inches long, pale green; few seeds.
123565. SOLANUM sp.

No. 2328. From Ootacamund, Nilgiri Hills, February 14, at 7,000 feet altitude. A thorny bushy perennial up to 3 feet high, with purplish flowers and orange-red fruits, growing along the roadside.
123566. SOLANUM sp.

No. 2500. From Kodai Kanal, Palni Fills, March 14, at 7,500 feet altitade. A shrub up to 6 feet high, growing at the edge of the forest; flowers white; fruits crimson.
123567. Sterculia sp. Sterculiaceae.

No. 2455. From Nilambur, March 6. A handsome tree.
183568. SWIET离NIA MACROPHYLLA King. Meliaceae. Mahogany.
No. 2448. From Nilambur, Marck 4. A large attractive, well-formed tree, native to tropical America, with compound leaves made up of 3 to 5 pairs of elliptic-oblong leaflets 4 to 8 inches long and small flowers in panicles; the ovoid woody fruits are 6 inches long and contain winged seeds 3 to 5 inches long.

For previous introduction see $\mathbf{9 4 2 0 0}$.
123569. TECTONA GRANDIS L. f. Verbenaceae. Teak.
No. 2447. From Nilambur, March 4. A large tree with huge deciduous leaves. An attractive avenue tree.

For previous introduction see 119910.
123570. TERMINALIA TOMENTOSA (Roxb.)

Wight and Arn. Combretaceae.
No. 2395. From Nilambur, February 23. A tall timber tree of the dectduous (teak) forest.
123571. Lagerstronmia speciosa (Muench.) Pers. Meliaceae.
No. 2454. From Nilambur, March 5. A tall tree with smooth, light-colored bark.

## 128451 to 123578 -Continued.

189/78. Vigna sininsis (Torner) davi. Fabaceae.

Cowpea.
No. 2438. Bqoada pavaru. From Kagargod, March 2. Umed while tender or as dry beans.
123573 and 123574. Viana sesquipmdalis (L.) Fruwirth. Fabaceae.

## Asparagus-bean.

From Kasargod, March 2. Used while the pods are tender or as dried bean...
123578. No. 2436. Altanda payaru.
123574. No. 2437. Ola payaru.
123575. Viola sp. Violaceae.

No. 2484. From Kodai Kapal, Palni Hills, March 12, at 7,500 feet altitude. A small plant spreading by runners with white to old-rose flowers.
128576. (Undetermined.)

No. 2329. From Ootacamund, Nilghi Hills, February 14, at 7,000 feet altitude. A dease bush about 8 feet high, growing on isolated slopes. Foliage attractive; flowers small, three-fourths of an inch in diameter, abundant, lavender-rose and very attractive; fruit edible but seedy.

## 123577 to 123608. Soja max (Li.) Piper.

 Fabaceae.Soybean.
From China. Seeds presented by Dr. Moses Awen, Hopei Provincial College of Agriculture, Paotingfu, Hopei. Received May 12, 1937.
123577. Hopei E-3. Medium sige, straw-yellow seed with hilum varying from brown to black.
123578. Hopei E-4. Medium size, strawyellow seed with brown hilum; badly mottled with brown and black.
123579. Hopei E-5. Medium size, straw-yellow seed with light-brown hflum.
123580. Hopei E-6. Medium size, strawyellow seed with brown hilum, more or less mottled with brown.
188581. Hopei E-7. Medium large, strawyellow seed with brown hilum, slightly mottled with brown.
188582. Hopei E-8. Small, straw-yellow seed with brown hilum, badly mottled with brown.
123583. Hopei E-9. Medium size, strawyellow seed with light-brown to black hilum; mottled slightly with brown and black.
123584. Hopei $\mathbf{E}-10$. Modium size, strawyellow seed with light-brown hilum, badly mottled with brown.
128585. Hopei E-11. Medium size, strawyellow seed with brown hilum, badly mottled with brown and black.

123577 to 123608 .-Continued.
183586. Hopei E -601. Large green seed with brown hilum ; green cotyledans.
123587. Hopei E-602. Medium size, yellow-ish-green seed with brown hilum; sxeen cotyledons.
123588. Hopei E-606. Medium size, yellow-ish-green seed with brown hilum, slightly mottled with brown.
123589. Hopei $\mathrm{E}-607$. Medium small, yel-lowish-green seed with black bilum, badly mottled with black.
123580. Hopei E-610. Medium size, light yellowish-green seed with light-brown hilum.
123591. Hopei $\mathrm{H}-611$. Medium size, glossy light yellowish-green seed with lightbrown hilum.
123592. Hopei E-701. Medium small, flat, black seed quite similar to Wilson-Five; cotyledons yellow.
183593. Hopei E-702. Medium large, glossy-black seed; cotyledons green and yellow.
123594. Hopei E-703. Medium large, somewhat flattened, black seed; yellow cotyledons.
123595. Hopei E-704. Medium size, black -seed; yellow cotyledons.
123596. Hopei $\mathrm{E}-705$. Medium large, somewhat flattened black seed; yellow cotyledons.
123597. Hopei D-706. Large duh-black seed; yellow cotyledons.
123598. Hopei $\mathrm{E}-708$. Medium large, dullblack seed; green cotyledons.
123599. Hopel E-801. Medium large, brown seed; seed coat slightly split,
128600. Hopei F-802. Medium size, glossy light-brown seed.
128601. Hopei E-803. Medium large, red-dish-brown seed; tendency of seed coat to spit.
128602. Hopei E-804. Large, somewhat fiattened, black and brown seed; colors arranged in concentric rings similar to the Meyer (P. I. 17852).
123603. Hopel $\mathrm{E}-805$. Large black and brown seed, colors arranged in concentric rings similar to the Meyer (P. I. 17852).

## 123604 to 123609.

From Australia. Seeds presented by J. M. Wistler, Dinninup, Western Australia, through C. D. Tribble, of California. Received April 28, 1937.
A collection of native shrubs.
123604. Chorizima sp. Fabaceae.

128605 to 123607. Hibbertia spp. Dilleniaceae.

## 123604 to 123609 -Continued.

123605. Hibbertia sp.

A small shrub 6 to 12 inches high; flowers yellow, very floriferous.
123606. Hibbeirtia sp.

A handsome shrub 1 foot high, with large yellow flowers.
123607. Hibbertia sp.

A shrub 18 inches high, found growing in sandy loam, with large handsome yellow flowers.
123608. Kinnedia comptoniana (Andrews) Link. Fabaceae.
A shrubby vine with single lanceolate leaflets and terminal as well as axillary racemes of pea-shaped flowers ranging from white through rose to purple.

For previous introduction see 113768.
123609. (Undetermined.)

A shrub 2 feet high from Perth, Western Australia.

123610 to 123614. Phledm pratense L. Poaceae.

Timothy.
From Norway. Seeds presented by H. Wexelsen. Felleskjøpets Stamsedgard, Hjellum. Received May 5, 1937.
123610. Selection $F_{3}$.
123611. Selection 16-3.
123612. Selection 58-0.
123613. Selection $\mathrm{F}_{43}$.
123614. Grindstad, a local strain.
123615. Carica papaya L. Papayaceae. Papaya.
From Venezuela. Seeds from the Granda Modelo del Estado Tachira, presented through J. L. Colom, Division of Agricultural Cooperation, Pan American Union. Received May 6, 1937.
123616. Stenomesson variegatum (Ruiz and Pav.) Macbride (S. incarnatum Baker). Amaryllidaceae.
From Huancayo, Peru. Bulbs presented by Paul G. Ledig, Huancayo Magnetic Observatory, Carnegie Institution of Washington, D. C. Received July 1, 1930. Numbered in May 1937.
A tender amaryllid, native to Peru, with numerous thick lorate leaves about $11 / 2$ feet long and a stout scape with several funnelshaped flowers in an umbel. The flowers, 2 to 3 inches long, are variable in color, pale or bright red, or tawny.
123617. Citrus sp. Rutaceae.

From Greece. Plants presented by John Vorres, Athens. Received May 19, 1937.
A seedless orange, introduced for the use of plant breeders.

123618 to 123621. Gossypium spp. Malvaceae.

Cotton.
From India. Seeds presented by the Cotton Research Station, Lyallpur, through Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received April 26, 1937.
A collection of cotton strains evolved on the hot plains of the Punjab from American stock.
123618. No. 2457. Research Station No. 47 F.
123619. No. 2458. Research Station No. 43 F.
123620. No. 2459. Research Station No. 289 F.
123621. No. 2460. Research Station No. 4 F.

123622 to 123624. Citrus spp. Rutaceae.
From Brazil. Seeds collected by Dr. H. S. Fawcett, Citrus Experiment Station, Riverside, Calif. • Received May 17, 1937.
123622. Citrus aurantifolia (Christm.) Swingle. Lime.
Ranghpur lime (Laranja Rosa). S. A. No. 9. From São Paulo; March 1937.
123623. Citrus sinensis (L.) Osbeck.

## Orange.

S. A. No. 10. From Montenegro, Rio Grande do Sul, April 9, 1937. A sweet orange without any acid.
123624. Citrus sp.
S. A. No. 11. From Uruguanya, April 11, 1937. A very large sweet seedling orange from a tree over 50 years old.

## 123625 and 123626.

From Rio de Janeiro, Brazil. Seeds presented through Dr. Doris M. Cochran, United States National Museum, Washington, D. C. Received May 24, 1937.
123625. Pterodon sp. Fabaceae.

A tree with pinnate foliage and racemes of violet-pink flowers.
123626. Xylopia sp. Annonaceae.

The fruits and seeds of this evergreen tree are sometimes used as condiments.
123627. Ipomoea batatas (L.) Lam. Convolvulaceae.

Sweetpotato. From India. Plants collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received April 26, 1937.
No. 2422. From Kasargod, Madras Presidency, March 1, 1937. Some tubers are free from flber and the flesh is more or less sweeter than ours.

123628 to 123637. Sacchabum, Poaceae.

Sugarcane.
From the Hawailan Islands. Cuttings presented by the Experiment Station, Hawaii Sugar Planters Association, Honolulu. Received May $25,1937$.
183688. 31-156.
128689. 26 С 270.
128630. 30-2417.
183631. 30-4422.
128632. 31-626.
183638. 31-1211.
123634. 31-1213.
128635. 31-2343.
123636. 31-2441.

183637, 31-711.

123638 to 123644. Arachis hypogaea L. Fabaceae.

Peanut.
From India. Seeds presented by Dr. J. S. Patel, Oil Seeds SpeciaHist, Coimbatore, Madras Presidency. Received May 26, 1937.
123838. A. H. 45. H. G. No. 1.
188689. A. H. 259. Philippine White.
128640. A. H. 34. Small Japan.
123641. A. H. 32. Gindiyaltam Bunch.
188648. A. H. 1. Local Mauritius.

123643, A. H. 811.
183644. A. H. 784. Gigantea.

## 123645 to 123660.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received May 27, 1937.
183645 to 183659. Obyza sativa L. Poaceae. Rice.
From the Rice Research Station, Department of Agriculture, Sabour, Behar, Bensal, April 12, 1937.
123645. No. 2656. Zinfinia. (Local.) Life cycle 100 days.
123646. No. 2657. Surgoza. (Local.) Life cyele 100 days.
123647. No. 2658. Sathi. (Local.) Life cycle 60 days.
123648. No. 2659. Kolaha. (Local.) Life cycle 100 days.
128649. No. 2660. 144 I. Life cycle 120 days.
123650. No. 2661. 141 BK. Life cycle 120 days.
123651. No. 2662. 115 BK. Life cycle 120 days.
123652. No. 2663. 5763 Aus. Life cycle 90 days.
128658. No. 2664. Black Ghora. (Local.) Life cycle 80 days.
123654. No. 2665. 5557 Aus. Life cycle 90 days.
183655. No. 2666. Broten Ghora. (Local.) Life cycle 80 days.
188656. No. 2697. 5 Brali. (Local.) Life cycle 90 daya.

123645 to 123660-Continued.
128657. No. 2698. 98 BK. Life cycle 135 days.
123658. No. 2699. 16 BK. Life cycle 135 days.
123658. No. 2700. 76-1. Life cycle 120 days.
123660. Zea mays L. Poaceae. Corn.

No. 2670. From Jaumpur, United Provinces, April 15, 1937. A locally grown corn, said to have edible ears in 6 weeks after sowing. The Allahabad Agricultural Institute says that this is the only corn they have succeeded in growing.

## 123661 to 123664.

From France. Seeds presented by Maurice Jeanson, St. Quentin-on-Tourmont, par Rue (Somme). Received May 5, 1937.
123661 to 123663. Soja max (L.) Piper. Fabaceae. . .. Soybean.
Soja du Marquenterre.
128661. 1934 crop.
123662. 1935 crop.
123668. 1936 crop.
128664. Zina mays L. Poaceae. Corn.

Giant popoorn du Marqwenterre. A cross between Golden Bantam sweet corn and popeorn.
123665 to 123671.
From India. Seeds purchased from G. Ghose \& Co., Town-End, Darjeeling. Received May 17, 1937.
123665. Allium jacquemonti Kunth. Lill. aceae.
123666. ALLIUM wALLICHIANUM Steud. Liliaceae.
A tall allium, native to eastern Asia, with narrow flat leaves about 3 feet long and purple flower heads.

For previous introduction see 99715.
123867. Colchicum lutium Baker. Melanthiaceae.
A spring-blooming colchicum with few fleshy strap-shaped leaves about 9 inches long and 1 to 3 golden flowers over an inch across. Native to the temperate Himalayas from 4,000 to $\mathbf{7 , 0 0 0}$ feet altitude.

For previous introduction see 112109.
123668 and 123669. Iris clarkei Hook. 1. Iridaceae.

Clarke iris.
A curiously local iris native to the Himalayas in a circumscribed area in the Sikkim and Bhutan region at altitudes between 6,000 and 11,000 feet, in ground that is swampy half the year and frozen hard under snow most of the remaining months. The narrow leaves droop at the tips; the upper surface is polished and shiny, the under

## 123665 to 128671-Continued.

side glaucescent. The solid stem in 2 feet long and bears 1 or 2 lateral heads.

For previpus introduction see 122009.
123668. A form with pale-blue flowers.
123669. A form with dark-blue flowers.
123670. Styrax hookeri C. B. Clarke. Styracaceae. $\quad$ Snowbell.
A tree often 40 feet high, native to Sikkim and Bhutan at altitudes between 6,000 and 7,000 feet. The white flowers, 1 inch long, are tomentose outside, and the young branches are stellate-pubescent. The wood is white, close grained, and moderately hard.

For previous introduction see 122142. 128671. Viola distans Wall. Violaceae. Violet.
A prostrate violet with slender stems 1 to 14 inches long, variable leaves, and palelilac or blue flowers about one-half inch across. Native to the temperate Himalayas at altitudes of 5,500 to 10,000 feet.
123672 and 123673. DOLICHOs LABLAB L. Fabaceae.

Hyacinth-bean.
From Africa. Seeds premented by the Agricultural Department, Kenya Colony, through Anna E. Jenkins, Bureau of Plant Industry, United States Department of Agriculture. Received May 26, 1937.
123672: A form with brown seeds.
123673. A form with black seeds.
123674. Livigtona mariam F. Muell. Phoenicaceae.

Palm.
From central Australia. Seeds presented through David Barry, Jr., Los Angeles, Callf. Received June 3, 1037.
From trees growing along the Finke River, Palm Valley. An erect palm with fan-shaped leaves divided into narrow plicate segments.

For previous introduction see 95077 .

## 123675 to 123695.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received May 6, 1937.
Collected in the Madras Presidency in March 1937.
123675. Amygdalus pbrsica L. Amygdalaceae. Peach.
No. 2491. From Kodai Kanal, Palni
Hills. Fruit about 2 inches in diameter, more or less conspicuously beaked; flesh white, decidedly red around the stone, flavor good. The trees fruit and flower at the same time and bear well.
128676 and 123677. AlLidm Ceppa L. Liliaceae.

Onion.

## 128675 to 123695 -Continued.

From Sldhout, March 23. Healthy plants growing amid fierce desert winds (temperature $103^{\circ} \mathrm{F}$. in the shade) ; sometimes the leaf tips become burned.
123676. No. 2538. A red globe onion.
123677. No. 2539. Like No. 2538, but §ample contains both red and white sorts.
123678. Citrullus vulgabis Schrad. Cucurbitaceae.

Watermelon.
No. 2522. From Sidhout, March 20. Fruit elongate, 18 inches long, pale green with strange broad chain lines of blackgreen over blotches of sea green; rind $11 / 4$ inches thick; flesh red, texture good, but sugar content low.
123679 to 123688. CuCumis melo L. Cucurbitaceae. Muskmelon.
123679. No. 2508. Kharbuza. From Madras, March 17, but said to have come from the Cuddapah District. Fruit globose, up to 10 inches in diameter, lemon yellow with. traces of green rib lines and of green netting; flesh white, thick, and sweet.
123680. No. 2509. Kharbuza. From Madras, March 17, but said to have come from the Cuddapah District. Fruit globose, tapering slightis, yeltow, netted; flesh white; thick, watery, and not very sweet.
123681. No. 2520. Catasa. From Cuddapah, March 20. Fruit flattened, 8 to 5 inches, yellow to jellow white, smooth to netted, often with trace of ribbing; flesh white, $21 / 2$ inches thick, fairly sweet.
123682. No. 2523. Jalleur Iami. From Sidhout, March 20. Fruit subglobose, about 12 inches in diameter, tapering slightly toward the stem, gold brown, heavily netted; flesh white, $21 / 2$ inches thick, juicy, but low in sugar content.
123683. No. 2526. Tela Batasa. Fromi Sidhout, March 20. Fruit flattened, 6 by 4 inches, smooth, yellow white, unribbed; flesh white, thin, but very sweet.
123684. No. 2527. Shiranjer. From Sidhout, March 20. Fruit subglobose to 7 inches in diameter, mottled orange brown, green with traces of ribs, smooth; flesh greenish, juicy, sweet. One of the best.
123685. No. 2528. Papai. From Sidhout, March 20. Fruit 8 inches in diameter, rather top-shaped with a rather prominent navel, smooth, lemon yellow, mottled and ribbed green; flesh thick, white, sweet.
123686. No. 2529. Mashrufatta. From Sidhout, March 20. Fruit oval, taper-

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Ing ratheriunevenly and more to the stem end, yellow to gold brown, riblined paler, moderately netted-; fleah juicy, white, thick, fairly sweet.
12s687. No. 25்34. Khandas. From Chenmur, March 20. Fruit elongate, tapering abruptly to the stem, often with a conspicuous navel, 12 to 16 inches in diameter, white, obscurely netted: flesh thick, white, Juicy, fairly mweet.
183888. No. 2540. Erom Cuddapah, March 23. Fruit elongate, smooth with a conspicuous navel, yellow green ahd orange mottled. Probably a cromes. 188689. Cucumis sp. Cucurbitaceae.

No. 2462. From Madura, March T. $A$ wild cucurbit, sold dry, used as a vegetable. 183690. Cucurbita mosciiata Duchesne. Cucurbitaceae. Cushaw.
No. 2494. From Kodal Kanal, Palni Hills, March 4, at 7,500 feet altitude. Fruit ovoid, 1 foot long, mooth with ribs, ;buffy; flesh rather coarse but of pleasant flavor when cooked.
183691. EnTADA sp., MImosaceae.

No. 11315. From Mahendra Giri, January 24, at 4,000 feet altitude. A climbing vine. 188689 and 188693. Phasioldos volgaris L. Fabaceae.

Common bean.
From Kodai Kanal, Paini Hills, March 11. Used as green pods or dry beana

18se9s. No. 2479.
128688. Ne. 2480.

18860\&. Prolinix sp. Phoenicaceae. Palm.
No. 2541. From Cuddapah, March 23. 4 palm up to 10 feet high, which bears fruit when only 3 feet high.

## 188695. spopanux gp. Solanaceae.

No. 2461. From Madura, March 7. Sold on the market in a dried condition and used as a vegetable.
123696. MUATINGIA CALABURA L. Elaecearpaceae.
From Cuba. seeds presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Clenfuegos: Received May 24, 1937.
A tropical American tree with a spreading crown, pinnate leaves, and smanl white flowers. The small berries make good tart or fam and the leaves are used for tea. A yel-low-fruited form ; normally the fruits are red. For previous introduction see 91301.
123697 and 123698. Arachis spp. Fabaceae.

Peanut.
From Brazil. Plants, collected by W. A. Archer, Bureau of Plant Industry; United iStates Departiment of Agriculture. Received

## 128897, and 183698-Continued.

September 25, 1936. Numbered is May 1987.
18607. No. 3982. Plánts collected at Capho Bontto, Matto Grosso, September 5, 1936, in hard red clas, mired with saind. [Seeds of this number were assigned $P$. I. No. 118456.]
188698. No. 3992. Plants from the Fazenda das Mogas, near Campo Grande, Matto Grosso, September 9, 1936. [Seeds of this number were asigned. F . I. No. 118458.]
123699. Hyparrientia .. buta (Nees) Stapf Poaceae.
From Costa Rica. Seeds presented by Don Fernando Castro, thrgagh the United Fruit Co., Boston, Mass. Recelved May 27, 1037.
128700 to 123719. AMYGDALUS COMMUNIs Lu Amygdalaceae. Almond.
From the Union of. SQviet Socialist Republics. Plants presented by Dr. A. Richter, Crimeap Section, Yalta Institute, through Dr. A. M. Popov, Acting Director, Department of New Cultures and Introduction, Institute of Plant Industry, Leningrad. Received April 15, 1937..
123700. No. 3605-435-P.
188701. No. 3643-418-P.
188702. No. 3626-423-P.
123703. No. 3619-453-P.
128704. No. $3628-414$ - .
123705. No. 3609-446-P.
123706. No. 3636-427-P.
189707. No. 3610-432-P.

128708, No. 3648-448-P.
128709. No. 3639-415-P.
123710. No. 3652-363-P.
123711. No. 3649-452-P.
183712. No. 3600-444-P.
123713. No. 463-P.
123714. No. 3651-429-P.
123715. No. 3597-461-P.
123716. No. 3602-436-P.

188717v No. 8634-424-P.
183718. No. 3624-455-P.
188719. No: $3627-450-\mathrm{P}$.

123720 and 123721. Pistacta vera $L$. Anacardiaceae. Pistachio.
From the Union of Soviet Socialist Republica Scions presented by Miss Vera Gorbunova through Dr. A. M. Popov, acting Director, Department of. New. Cultures and Introduction, Institute of Plant Industry, Leningrad. Received April 15, 1937.
123720. No. 132.
183721. No. 188.

## 123722 to 128782. Maxte sinvistres Mild: Malaceae. <br> Apple.

From England. Plants purchased from
Charles Townsend, Ltd., Fordham, Cambridgeshife. Réceived April 15, 1937.
1837ar. Oharles Rose.
193723. Orinson Oox's Orange.
123724. Ellison's Orange.
123725. George Carpenter.
123726. John Standish.
123787. Lady Henniker.
123728. Mèrè de Ménage.
129729. Norfoir Royal
123730. Red Joaneting (Juneating).
193791. Rtoal.
128788. St. Everard.

123733 to 123739.
From France. Plants purchased from Pepinieres de La Maladrerie, Caen (Calvados). Received Aprll 15, 1937.
123733 to 129736. Malds sylvistris Mill. Malaceae. Apple.
123733. Bedan des parts.
123734. Bonte Normand.
123735. Cremiere.
123736. Long Bois.

123737 to 123739. Pyrus spp. Malaceae.
Poar.
123737. Beurré Grts Lisambert.
123738. Doyenné St. Michel.
123739. Willuame Duchese.

123740 and 123741. Vitis vivifiris L. Vitaceae.

European grape.
From Greece. Cuttings presented by Prof. B. Krimbas, Ecole Superieure Agronomique, Athens. Received April 19, 1937.
123740. Fraula.
123741. sidertes.

123742 to 123757.
From Eingland. Plants purchased trom George Bunyard \& Co., Ltd., Maidatone, Kent. Received April 20, 1937.
123742 to 123752. Malds nylumstbis Mill. Malaceae.

Apple.
123748. Aldenheim. Blemhaim.
123748. Easter Orange.
123744. Lawton's Epicure.
123745. Lord Burghley.
123746. Lord Hindlip.
129747. Lord Lambourne.
123748. Madistone Favorite.
183749. May Queen.
123750. Rosenbery.
123751. Sandling.
123752. sunglow.

128742 to 128757-Continued.
123753 and 183704. Pzunus app. Amygdalaceae.
12375s. Sohreckens Bigarreaw cherry. 128754. Triaum cherry.

123755 to 128757. PyRUs spp. Malaceae.
123755. Admiral Gervais.
123756. Emile d'Heyst.
183757. Laxton's Superb.

128758 to 123761 . Oryza sativa L. Poaceae.

Rice.
From India. Seeds presented by B! S. Kadam, Crop Botanist, Rice Breeding station, Karjat (Kolaba), Bombay Presidency. Recetved April 21, 1937.
123758. Patwi 6.
123759. Kolamba 79.
123760. Maskaty 1315.
123761. Mugad 161.

123762 to 123768. Rubus spp. Rosaceae.
From England. Plants and root cuttings purchased from M. B. Crane, John Innes Horticultural Institution, London. Received April 22, 1937.
183768. Rubus borreri Bell Salter.

## Blackberry.

A blackberry with procumbent stems, corymbose panicles of rome-colored or white flowers, and bright jet-black fruits. Native to England.
123763. Rubus nitidiọides W. Watson.

A rubus with suberect stems and rather large lilac flowers, followed by large fruits resembling those of Rubus selmeri. Native to England.
123764 and 123765. Rubus ulmbrolivs Schott. Elmleaf blackberry.
A blackberry with curving-prostrate canes armed with straight prickles. The compound leaves are made up of 3 or 5 coriaceous, evergreen, obovate or orblcular, sharply serrate leaflets, and the mediumsized flowers are red 'and sometimes double. It is native to Europe.

For previous introduction see 80829.
123766. Rubus schlechimidaiklit Wethe. Blackberry.
A blackberry related to Rubus macrophyllus; native to Farope.
123767. $\times$ Rubus thyrsigur Banning and Focke.
A hybrid of Rubus.8caber, differing from that species in having a narrow, often elongated infiorescence and broader leaflets, piloge beneath.
123768. Rubus.

John Innes. A cross between Rubus ulmifolius and $R$. thyrsiger.

123769 to 183778 . تUOATYPTUS spp. Myrtacean
From Australia. Seeds presentea by F. H. Baker, Richmond, Victoria. Received April 1, 1837.
123769. EUCALYPTUS calophylla Lindl.

Variety Rosea. A medium-sized Australian tree with dense foliage and dark, corky, deeply furrowed bark. The thick firm leaves are ovate-lanceolate, and the flowers, pink in this variety, are often onehalf inch across and appear in large panicles. It is an ornamental tree of slow growth, not enduring frost or drought.

For previous introduction see 106333. 188770. Eucalyptus crucius Maiden.

A small tree 25 feet or less high, glaucous throughout, with small, thick, ovate to lanceolate leaves over an tnch long. Native to Western Australia.

For previous introduction see 111871.
128771. Eucalyptus diversicolor F. Muell. Karri-gum.
A tall tree up to 350 feet in height, native to Western Australia, straight in habit and a fatrly rapid grower. The very dense and elastic wood is considered superior timber, being used by wheelwrights and for shipbuilding. The tree prefers a moist climate, is somewhat frost resistant, but will not endure dry heat.

For previous introduction see 106335.
183778: Elucalyptus mrwmophilas Maiden.
A spreading shrub or medium-sized tree With smooth scaly bark, shiny, leathery, lanceolate leaves about 3 inches long, and few-flowered umbels of small yellow flowers. Native to Western Australia.
183773. Hucalyptus maythrocorys F. Muell.
Usually a shrub 8 to 10 feet high, this eucalypt is sometimes a tree up to 30 feet high. The broadly linear, rigid leaves are 6 inches long, and the large flowers, in axillary clusters, have bright-red, fleshy caps over the buds; the long stamens are yellow. The ribbed, hemispherical truits are 1 to 2 inches long. Native to Western Australia.

For previous introduction see 111872. 183774. Eucaliptos mitithronema Turcz.

A small Australian tree with reddish bark, thick shining fanceolate leaves 8 inches long, and recurved umbels of red flowers.

For previous introduction see $\mathbf{7 7 2 8 2}$.
183775. Ejcaliptos macrocarpa Hook.

A stout strub or amall tree up to 15 feet high, with thick, rigid, cordate, glaucous leaves 6 tnches long and large coli-

## 128769 to 188778-Continued.

tary, brilliantorange or crimson flowets. Native to Western Australia.

For previous introduction see 111878.
123776. Eucalyptus marainata J. Fi. Smith.

An Australian shrub or small tree often clear of branches for two-thirds of its height. The hard durable wood is nsed for timber, piles, and rallway tien. The tree will grow in a great variety of soils, but prefers moist, well-drained situations.
. For previous introduction see 106340.
129777. Eucaltyptus microcorys F. Muell.

A tall tree with persistent wrinkled barls, thin broadly lanceolate leaves, and small white flowers. The yellowish timber is especially useful for ballroom floors because of its greasy nature. Native to Australia.

For previous introduction see 106341.
123778. Eucalyptus pyrdformis Turcz.

A shrub or small tree found in Western and South Australia where it attains a height of 8 to 10 feet. The very thick, narrow leaves are rarely more than 3 inches long, and the large flowers are red when fresh. The yellowish-white wood is hard, heavy, and durable.

For previous introduction see 111875.
123779 to 123781. Detphinium spp. Ranunculaceae.

Larkspur.
From Africa. Deeds purchased from the Mount Elgon Nurseries, Kitale, Kenya Colony. Received April 8, 1937.
128779. Delphinium candidum Hemel.

A dwarf perennial delphinium with palmately fivelobed leaves up to 5 inches across and large white, sweet-scented flowers.

For previous introduction see 113840. 123780. Diflphinium macrocentrum Oliver.

A perennial delphinium up to 6 feet high, bearing numerous blue-green to deep-blue flowers.

- For previous introduction see 113841. 188781. Delphinium wellisit Hemsl.

A perennial delphinium about 2 feet high, with palmate leaves 2 to 3 inches across and large blue flowers. Native to Eithiopia.
123788 and 123788. Viola spp. Violaceae. Violet.
From England. Seeds presented by the Royal Botanic Gardens, Kew, Surrey. Received April 8, 1937.
123782. Viola armman Boiss. and Huet.

A stemiess perennial violet with ovate leaves and very small flowers. Native to the Caucasus region.

## 123782 and 128783-Continued.

## 123788. Viola COntmmpta Jord.

An annual violet with erect or ascending stems; ovate or oblong-ovate leaves, and pale-blue flowers. Native to Europe.
123784 to 123788. Viola spp. Violaceae. Violet.
From Switzerland. Seeds presented by the Director, Botanic Garden, Geneva. Recelved April 14, 1837.
123784. Viola sp.

Introduced under the name Viola arborea Forsk., a homonym.
123785. Viola birtolonir de Salis.

A perennial violet with stems about a foot high, oval, oblong, or lanceolate leaves, and blue flowers. Native to Corsica.
123788. VIOLA DACTYLOIDETS Roem. and Schult.
A stemless perennial violet with paleblue flowers. Native to northeastern Asia. 128787. Viola gracilis Sibth. and Smith.

A violet from southern Europe and Asia Minor, with stems about a foot high and violet or yellow flowers.
123788. VIoLa UNiflora $L$.

A hardy violet with cordate leaves on stems about 6 inches high and terminated by a single yellow flower. Native to eastern Asia.
123789 and 123790. Trifolium pratense L. Fabaceae.

Red clover.
From England. Seeds purchased from the Clover Growers' Ltd., Montgomery. Beceived April 19, 1937.
183789. Cotswold Late Flowering.
188790. Montgomery Late Flowering.

## 123791 to 123793.

From Cuba. Seeds presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Recelved April 9, 1937.
123791. Carissa. opaca Stapf. Apocynaceae.
Presented by the Forest Research $\mathbf{I n}_{\boldsymbol{q}}$ atitute, Dehra Dun, India. A spreading, thorny, evergreen shrub up to 12 feet high, with elliptic-ovate to ubborbicular leaves up to 2 inches long and sweet-seented; white, pink-tinged flowers about $1 / 2$ inch across. Native to the Himalayan region.
128792. Cassia leptophilla Vog. Caesalpinfaceae.
Presented by the Botanic Garden, Rio de Janeiro, Brazn. A Brazilian tree with pinnate leaves composed of 9 to 12 lanceo-late-oblong leaflets and many small yellow flowers in terminal racemes about 6 inches long. Native to Brasil.

## 123791-to 132798-Continued:

123793. SAPIUM DIscolor (Champi) Muell.

If Arg. Euphorblaceae.
Presented by the Botanic Garden, Hong Kong, China. A glaucous shrub or small tree, with long-petioled elliptic leaves about 2 inches long and short dense spikes of greenish flowers. Native to tropical Asia.
123794. Attalea sp. Phoenicaceae.

Palm.
From Brazil. Seeds presented by P. Campos Porto, Director, Instituto de Biologia Vegetal, Jardim Botanico, Rio de Janeiro. Received April 8, 1937.
The attaleas are attractive tropical American palms of distinctive appearance, with long pinnate leaves usually in a large erect tuft.
123795. Pentaolethra maceoloba (Willd.) Kuntze (Pentaclethra filamentosa Benth.). Mimosaceae.
From Costa Rica. Seeds collected by H. F.

- Loomis, Bureau of Plant Industry, United States Department of Agriculture. Received April 5, 1937.
Oavilan. A large forest tree in the forests about Cairo, Costa Rica. In clearings, the tree makes a handsome crown of foliage which is composed of large shining mimosalike leaves. The small white flowers are in dense clusters about 6 inches long. The wood is prized because of its resistance to decay and termites, being used for posts, railroad ties, and other purposes. The sapwood is lightcolored, but the heartwood is bright red. The tree appears to prefer well-drained locations with good soll.

For previous introduction see 108584.
123796. Trifolium pratense L. Fabaceat.

Red clover.
From Canada. Seeds purchased from the Dominion Seed Branch, Department of Agriculture, Calgary, Alberta. Received Aprif 13, 1937.
Altaswede red clover.
123797. AMYGDALUS PERSICA E. Amygdalaceae. : Peach.
From Canada. Plants presented by C. Howafd Fisher \& Sons, Queenston, Ontario. Received April 24, 1937,
H. Fisher Nio. 10.

123798 to 123807. Viow spp. Violaceae. Violet.
From Sweden. Seeds presented by Dr. S. Skottsberg, Director, Botanic Garden, Göteberg: Received April 14, 1937.
128798. VIoLA BatTandimit W. Becker.

An Algerian violet up to about 11/2 feet high, with ovate leaves and violet or yellow flowers. It is allied to Viola munbyana.

## 128798 to faseopingontinued．


Received under the hame＂caspla，＂for
：which a platee of pablication has not been tound．${ }^{12}$

## 188800．Viona czaneá Celar．

4 dtemless zutopean violet with broad
cordáte－ovate bright green teaves and sky－ blue fiowers．
183801．VíLa ваÍTAḾDTEBi W．Becker．
An Algerian violet up to about 1 虔 feet high，with ovate leaves and violet or yel－
a）Howers．It is allied to Viota munbyana．
For previous introdaction and descrip． tion see 123798.
183802．X Vioma flopaibiminsis Correvon．
A dwarf tufted violet with pale－green leaves；the flower centers are light lilac with the two upper petals deep violet．It is supposed to be a hybrid between Viola calcerata and $V$ ．cornutio．
128803．VioLA JOOI Janka．
A stemiess violet with oblong or ovate cordate leaves and rather large fragrant lilac flowers．Native to Europe．
188804．VIOLA persicipolia Roth．
A violet native to Europe．
For previous introduction see 28259.
128805．Viola serpincola Jord．
A Eruxppean violet allied to Viola odorata． 188s06．Viona simamana W．Becker．

A perennial about 5 inches high，with reniform－cordate basal leaves，broadly
sovate stem leaves，and pale－blue．or white Howers．Native to Asia Minor．

For previous introduction see 108802
imaser．Vrota viarol Pollard．
183808．Trifqiugm Pratingir L．Fa－ baceae．

Red clover．
Hrom Canada．Beeds presented by the Uni－ versity of Manitoba，Winnipeg．Received April 20， 1987.
Manhardy red clover．
183809 to 123818 ．Mmida $G 0$ sATIVA $L$ ． F＇abaceae．

Alfalfa．
From Germany．Seeds presented by Dr．A． Fischer，Kaiser－Wilhelm Institut filir Zuich－ tungaforachung，Muncheberg／Mark．Re－ ceived April 20， 1937.
188809．Altfrankische．
198s10．Hochaycht Bendeleben．
188811．Hochaucht Mahndorfer．
123818．Pfalser．
183818．Ungurische．
128814 to 188888.
From India．Seeds collected by Walter Koels， Burean of Plant Industry．United States Depertinept of Agriculture．Received Aprif $5,1887$.

## 123814 to 123882 －Continued．

Miaterial collected in the Madras Presi－ dency In January and February 1987，unless otherwise mentioned．
123814．A MYdDALOs Prisica L．Amygdala－ ceae． Peach．
No．2295．From Bangalore，Myore，Feb－ ruary 9．Fruit green yellow， 2 inches high； flesh white，red around the pit，good flavor． the tree produces two crops a year and in said to be never completely dormant．
183815．CAPsicum annotm I．solanaceae． Redpepper．
No．2379．From Kotagiri，Nilgiri Hills， at 7,000 feet altitude．Fruit strawberry shaped， 1 inch high，red，mill．
188816．Cetstrum aurantícum Lindl．So－ lanaceae．
No．2333．From Ootacamund，Nilgiri Hills，at 7，000 feet altitude，February 15. A large shrub with wayy，shining，ovate to oblong leaves 3 to 5 inches long and spikes of showy orange－colored flowers fol－ lowed by large white berries．Native to Guatemala；cultivated as an ornamental in the Tropics of both hemispheres．
183817 and 183818．Cfribulius volaaris Schrad．Cucurbitaceae．．Watermolon．
From Coimbatore，February 10 and 12.
183817．No．2313．Tarbus．Fruit elon－ gate，dark green， 15 linches long；tiesh red，of fair quality；rind white and green， $1 / 6$ to $1 / 2$ inch thick．
183818．No．2321．Fruit ovaid， 1 foot long，medium green，blotched ribbed with darker green；fiesh red；rind white and green， $1 / /$ fach thick；a very thin rind．
$1 \$ 8819$ to 188884．Cucomis maio L．Cu－ curbitaceae． Iuatimelon．
From Coimbatore，February 12.
183819．No．2314．Frult 8 by 6 inchem， lemon yellow，closely netted；flesh sea green，firm，flavorless ；rind very hard，an extreme type never before seen．
188880．No．2315．Eruit subglobose， 10 inches in diameter，smooth，deeply ribbed，blotched russet and dark green ； fesh salmon－colored，fragrant．
128821．No．2316．Gosapala．Fruitsipb globose， 1 foot long，pale yellow，nett． ted，line－ribbed green；fienh pale ＊almon color，tragrant．
123882．No．2317．Go8a．Fruit eribio－ bose， 8 inches，smooth，unribbed，yel－ low white；fiesh white，actd．
128823．No．2318．Kalert Kafc． cucumber－shaped， 1 foot long． 4 Inchen in diameter，smooth，unribbed，orange yellow；flemh white，mealy and spibacid， no fragrance．

## 123814 to 123832 -Continued.

183824. No. 2319. Malampuram. Fruit 8 bst 4 inchen, goldian brown, unribbed but rib-lined white; flemh pale salmon color, seeds embedded in the flesh, not sour, but not fragrant.
188885, Cucurbita moschata Duchesne. Cucurbitaceae. Cushas.
No. 2298. From Bangalore, Mysore, February 9, 1937. An elongate pumpkin $21 / 2$ feet long, ribbed, buff brown; flesh not sweet, rather coarse. Grown in summer.
183825. Hrilichrysum bractiatum (Vent.) Willd. Asteraceae.
No. 2326. From Ootacamund, Nilgiri Hills, February 14, at 7,000 feet altitude. A plant 3 feet high with yellow flowers, found on roadsides and in flelds.
183826. Fragaria vesca L. Rogaceae.

Alpine strawberry.
No. 2293. From Bangalore, Mysore, February 9 . Fruit about 2 inches long ; watery, but of good flavor.
188828. RHODODindion arboredm nilaairicum (Zenk.) C. B. Clarke. Hricaceae.
No. 2822. From Ootacamund, Nilgiri Hills, at 7,000 feet altitude, February 14. A tree about 2 feet in diameter, of serubby form, laden with crimson flowers, growing, usually, where other trees cannot. Tolerates freezing at $10^{\circ} \mathrm{F}$. and also summer heat. Probably as adaptable as Riododendron arboreum, which it closely resembles. 128829. Rubus sp. Rosaceae.

No. 2324. From Ootacamund, Nilgiri Hills, at 7,000 feet altitude, February 14. Semiscandent vigorous shrub up to 2 feet high, with long clusters of small yellow fruit.
123830. Salvia verbenaca L. Menthaceae.

No. 2323. From Ootacamund, Nilgiri Hills, at 7,000 feet altitude, February 14. A hardy herbaceous perennial 1 to 2 feet high, with broadly ovate or oblong leaves and simple or somewhat branched racemes of small blue flowers. Native to Europe. 123831. SOLANUM sp. Solanaceae.

No. 2180. From Mahendra, January 22, at 2,000 feet altitude. Fruit globose, 1 inch in diameter, yellow.
183832. Verbina sp. Verbenaceae.

No. 2325. From Ootacamund, Nilgiri Hills, February 14, at 7,000 feet altitude. A perennial about 18 inches high, with 2 or 3 long spikes of purple flowers. Found growing in open ground.

## 123833 to 123888.

From Sweden. Seeds presented by Dr. Robert F. Fries, Director, Botanic Garden, Stockholm. Received April 18, 1937.

## 128838 to 128838 -Contimaed.

123833. ELSHOLTzIA IANTHINA (Kanstz.) :Dunn. Menthaceae.
A small erect herb with dense terminal spikes of small lavender-colored fowers. Native to Kansu Province, China.
123834. Elsholtzia patrinil (Lepech.) Garcke (II. cristata Willd.). Menthaceae.
For previous introduction see 65864.
123835. Hosma ventricosa (Salisb.) Stearn. Liliaceae.
A plantainlily with broad cordate-ovate leaf blades abput 10 inches long and lav-ender-purple flowers about 2 inches long in elongated racemes, on scapes up to 3 feet tall. Native to China.

For previous introduction see 117052.
123836 to 123838. Viola spp. Violaceae.
Violet.
128836. VIOLA PALMENSIS (Webb and Berth.) Webb and Berth.
A perennial violet with stems about 1 foot high and nodding purple flowers. Native to the Canary Islands.
123837. Viola mlatior Fries.

A perennial violet with tall erect stems, sometimes 18 inches high, lanceolate leaves and large pale-blue flowers. Native to Europe.

For previous introduction wee 28253.
123838. Viola labradorica Schrank.

123839 and 123840. SACCHABUM SPONtaneum L. Poaceae. Sugarcane.
From India. Cuttings presented by the Imperial Sugarcane Breeding Station, Lawley Road, Coimbatore, South India., Received April 29, 1937.
123839. S. H. 244. 123840. ©. H. 249.
128841. Qukarcus sp. Fagaceae. Oak.

From France. Plants purchased from N. Maurizot, Saint-Didiery France. Received April 29, 1937.
Truffle oak.
123842 and 123843. Zinnia spp. Asteraceae.
Erom Italy. Seeds presented by Dr. Mario Ercoli, curator, La Mortola, Ventimiglia. Received April 22, 1937.
123842. Zinnia phedviana L. (z. paucifora L.).

No. 1721. An erect annual with lanceolate to oblong-ovate leaves and yellow flower heads about an inch across, the rays sometimes red or purple. Native to the Peruvian Andes.
1898848. Zinnia multiflora L. ( $Z$. verticil. tata Cav.).

## 188848 and 18849 Continued.

Mo. 1722. 4 aimia found wild along fence rows and roadsides. The tmall flower heads are a light brick red.

Fer mevions introduction Hee 102648.
123844. Bauminia gladea Wall. Caesalpiniaceae.
From China. Seeds presented by the Botanic Garden, Hong Kong, through F. G. Walsingham, Attins Institution, Arnold Arboretum, Soledad, Clenfuegos, Cuba. Received April 8, 1837.
A woody climber with slender branchlets and mall deeply cleft leaves 1 to 3 inches long. The small white flowers are in dense terminal corymbs. Native to tropical India.

For previous introduction see 67540.
183845. Citrus sp. Rutaceae.

From Brasil. Seeds presented by Agesilau $A$. Bitancourt, Sub-Director de Biologia Vegetal, Ba Paulo. Received April 27, 1937.
Laransa cravo orange.
12384. Ozbignya spriciosa (Mart.) Barh-Rodr. (Attalea speciosa Mart.). Phoenicaceae.

Babassu nut.
Fiom Eraedi. Seeds presented through J. W. T. Duvel, Commodity Exchange Administration, United States Department of Agriculture. Received November 19, 1936. Numbered April 15, 1837.
A palm, mattve to Brasil and the Guianas, which is very much like the Cohune palm, but its fruits, 3 to 4 inches long are much larger. An edible oil is extracted from the seeds and is now being exported to the United States.

Figr previous introduction see 99608.
123847 to 123849.
From Blltmore, N. C. Plants presented by C. D. Beadle, Biltmore estate. Receired April 12, 1987.
A collection of bamboos, originally obtained from a European nursery.
128847. Arundinaria sp. Poaceae.

Bamboo.
$A$ handsome running bamboo that bears some resemblance to Semiarundinaria fastuosa but has not exceeded about 9 feet in helght.: There are ultimately 1 to 3 branches at each node of the palm except near the base, and the internodes are often elightly flattened above the branches; culm sheaths are semipersistent. Leaves 6 to 8 on a brameh, broad lanceolate, glabrous, 3 to 5 inches long, $8 / 8$ to 1 inch wide. 183848. Sasa disticha (Mitf.) E. G. Camis.

Poacere. . . Fern bemboo.
A dwarf havdy bamboo of running habit,
is 2y to \& feet and rarely 5 feet high, with mail, elowely-zanked leaves. It is useful

## 123847 to 188840-Contimea.

as a roadway border where sofl: comatitiong do net favor too rapid spreading.
188839. Arumpinarili ep. Pioaceme.

Bamboo.
A handsome running bamboe with cuilms 41/2 feet high, unbranched below but with several branches at each node of the upper half and with rough leaves up to 9 inches long and $11 / 4$ inches wide; culm sheaths persistent.
123850. Neanthe belina O. F. Cook. Phoenicaceae. Palm.
From Wawhington, D. C. Seeds from plahts grown in greenhouses of the Department of Agricultare. April 1, 1937.
These seeds were obtained from hand-pollinated flowers. A small graceful palm with a slender stem a few feet high and spreading deep-green pinnate leaves 1 to 2 feet long. Native to open forests in Guatemala, at about $\mathbf{3 , 0 0 0}$ feet altitude.
123851. Querous sp. Fagaceae. Oak.

From France. Plants purchased from Léopold Laval, Propriétaire-Traficulteur-Recoltant, Martel. Received April 1, 1937.
Truffle oak.

## 123852 to 12380.

From New Mexico. Seeds collected by Leslie N. Godding, Sofl Conservation Service, Albuquerque. Received April 8, 1887.
188852. AgAstachi ruptstars (Greene) Standley. Menthaceae.
A perennial herb 1 to 3 feet high, native to the mountains of southwestern New Mexico. The linear-lanceolate entire leavea, about 2 inches long and pleasantly aromatic, and the showy, tubular, coralrod flowers, 1 inch long, are borne in loose panicles.

For previous introduction see 101092.
123858. Amoriduil palmatifida Mog. and Sesse. Cochlospermaceae.

- A bushy perenilal with digitately-parted leaves and showy: yellow flowers in panicles. Native to Mexico.

198854. Anthericum tormiti Baker. Liliaceae.
An anthericum $11 / 2$ to 2 feet hish, with narrow linear leaves and a scape of many small yellow flowers. Native to the southwestern United States.
198855. Aralia humilis Cav. Araliaceae.

An unarmed shrub 3 to 7 feet high, with bipinnate leaves and small black berrylike fruits. - Native to Mexico.
123856. Astrar alauconas Blake. Aeteraceae.
A perennial aster with long roots.

## 128852 to $\mathbf{1 2 8 8 0 4}$ - Conthatied o

 rabsacts Boctrardia triphyinu Saltsb. Rubiacear.A small shrub with showy red thowers about 1 inch long. Native to Mexico.
183858. Bpiciswilla sip. Asteraceae.
123859. Catochoetus sp. Liliaceae.
123880. Cissus Incisa (Nutt,) Desmoul. Vitaceae.
123861. Clematis sp. Ranunculaceae.
123862. Erythrina flabelliformis Kearney: Fabaceà. Western coralbean.
A low, spiny, deciduous shrub 2 to 4 feet high, native to the upper foothills of the Southwest. The beans range in color from cream through coffee color to bright scarlet.

For previous introduction see 42204.
128863. EUPATORIUM sp. Asteraceae.

A very handsome, clear white-flowered, rather bushy eupatorium, growing in rocky canyons in protected but not shaded places. 183864. Eustoma ruşimliandu (Hook.) G. Don. Gentianaceae.
An annual or biennial 1 to 2 feet high, with ovate to lanceolate-oblong leaves and large lavender-purple flowers. Native to the southwestern United States.
123865. Fagonia Cariforinica Benth. Zygophyllaceac.
A compact woody perennial about 1 foot high, with mall trifoliolate leaves and small purplish flowers. Native to California:
183866 EmNDLERA ROPICOLA Bingelm, and Gray. Hydrangeaceae.
An orect bushy shrub up to about 6 feet high, with small elliptic to oblong-lanceolate leaves and; usually, solitary pink or pinktinged flowers about 1 inch across. Native to Texas and New Mexico....
183867. Feaindy aridari A. Gray. Oleaсеае.

Ash.
123868. Hmpmoma sp. Menthaceac.
128869. सimpoмa sp. Menthaceae.
188870. Hibiscos coutinai Harv. Malvaceae.
A low'shrubby hibiscus with small white or pale-yellow flowers. Native to Mexico. Ies871. JATROPHA ANGUSTIDENE (Torr.) Muell. Arg. Euphorbiaceae.
128878. LIATRIS sp. Asteraceae.

128878 and 128874. Leiostemon ambiguds (Torr.) Greene. Scrophulariaceae.
183876. Lippia Ligustrina (Lag.) Britton. Verbenaceae.
A shrub up to about 9 feet high, with mall lanceolate-oblong leaves and axillary spikes of small, fragrant flowers, white or tinged with violet. Native to Brazil.

123852 to $128904-$ Conitnued.
188876. Lippia wbigerin A. Gríy. Verbe1 .

123877: Lobmina sp. Campainulaceae.
12sés. Lonicima $\triangle$ thidfora Tort. and Gray. Caprifoliaceae.
A shrub 3 to 7 feet high, sometimes twining, with oval leaves over an inch long and showy white or yellowish-white flowers. Native to the United States.
123877. Astime sp, Asteraceac.

A very showy aster with purple flowers. 128880. Miurandy antieritiniflora Willd. Scrophulariaceae.
A slenđer vine with thin, hastate-triangular leaves and solitary axillary, pale-blue flowers : 1 inch or more long, similar in appearance to snapdragon. Native to northern Mexico and the southwestern United States.
For previous introduction see 104556.
123881. Maurandya wiscizeni, A. Gray. Scrophulariaceae.
For previous introduction see 4129.
183882. MmLAMPODIUM LeUCCANTHUM Torr. and Gray. Asteraceae.
A low, white-flowered, shrubby composite allied to Melampodium cinerewm. Native to Texas.
188883. MENODOROPSIE LONGIFLORA (A. Gray) Small. Oleaceae.
188884. Nissonia schortir (Torr.) A. Gray. Fabaceae.

A scandent legume with a stem 2 to 3 feet long, branching from a somewhat woody base, and racemes of amall yellow flowers. Native to Mexico.
183885. NoLiNA biamovir (Torr.) S. Wats. Liliaceae.
A woody perennial with a stout trunk often 5 to 15 feet high, many linear rigid leaves and a tall scape bearing a dense compound panicle of smail white flowers. 183886. OnNOTHERA HOOMERI Torr and Gray. Onagraceae.
A tall, showy, yellow-flowered evening primrose. Natiye to the western United States.
123887. Omnothara sp. Onagraceac.
183888. Parositha grmagir (A. Gray) Heller. Fabaceae.
A low shrub with silky hairy branches and densely hairy compound leaves with 5 to 11 obovate leaflets less than half an inch long. The pink flowers are in dense spikes about 1 inch long. Native to Mexico and Arizona.
183889. Parosmia jomnsoni (S. Wats.) Vail
(Dalea johnsoni S. Wata.). Fabaceae.
A diffusely branched shrub with mooth gray bark, leaves 1 to 2 teet long com-

## 123852 to 188904-Continued.

posed of 5 to 11 leaflets, and loose racemes of deep-purple flowers terminating the leafy branchlets.

For previous introduction see 41771.
183890. Pectis sp. Asteraceae.

128891 to 128896. PषNSTEMON spp. Scrophulariaceae.
123891. Penstemon glabra Pursh.

A herbaceous perennial, 1 to 2 feet high, with showy bright blue to violetpurple flowers in panicles. Native to the Rocky Mountains.
183892. Penstimom barbatus (Cav.) Roth.
An erect, tall, herbaceous perennial with firm, lanceolate to linear leaves and terminal clusters of long slender light-pink to carmine flowers. Native to western North America.
183893. Penstimon sp.
183894. Penstemon sp.
123895. Penstemon sp.
188896. Penstemon spectabilis Thurb.

A tall herbaceous perennial with slender simple stems up to 4 feet high, ovate to oblong leathery leaves 2 to 3 inches long, and open panicles, 6 to 12 inches long, of many blue or blue-purple flowers about 1 inch long. Native to the southwestern United States.
183897. Phtalostamon sp. Fabaceae.
183898. Psilostropht sp. Asteraceae:
128899. SALVIA sp. Menthaceae.
183900. Salvia rarlei Woot. and Standl. Menthaceae.
183901. Sophora swcundiflora (Ortega) DC. Fabaceae.

A shrub or small tree, up to 35 feet high, native to Mexico. The evergreen pinnate leaves are made up to 7 to 11 elliptic to oblong leaflets 2 inches long, and the fragrant rialet-blue flowers, 1 inch long, are in racemes.

For previous introduction see 99699.
188902. Virbinna sp. Verbenaceae.
188903. Vrrbina sp. Verbenaceae.
123904. ZaUschineria calhpoinica Presl. Onagraceae. Humimingbird-trumpet.
A half-hardy perennial with showy scarlet flowers resembing those of the fuchsia, but erect, not pendent. It is rather variable in form of ${ }^{2}$ leaves and in hardiness. Native to the southwestern United States. For previous introduction see 45193.
193905 to 123917. Malues sytvestris Mill. Malaceae.

Apple,
Erom Canada. Scions presented by M. B. Deqis, Central Experimental Farm, Department nt Agriculture, Ottawa. Received

123905 to 123917-Continued.
April 6, 1937. 188911. Mantet.
183905. Angus. 123912. Manton.
123906. Breakey. 18s913. Osman.
123907. Wlkhorn. 123914. Patricia.
123908. Godfrey. 123915. Rosilda.
123909. Gretna. 123916. Stevenson.
123910. Manitoba. 123917. Taba.

128918 to 123928. Midicago spp. Fabaceae.

Medick.
From the Union of Soviet Socialist Republics. Seeds presented by the Institute of Plant Industry, Leningrad. Received April \$, 1937.
128918 to 123980. Medicago hemmicycla Grossh.
A perennial alfalfa with ascending stems about 2 feet high. Native to the Transcaucasus region at altitudes between 2,000 and 6,000 feet.

For previous introduction see 111618.
123918. From the Republic of Georgia. No. K. 191/16695.
123919. From Armenia. No. 214/16719.
123920. From Armenia. No. K. 158/ 16651.

128921 to 183924. Mmdicago hispida Gaertn. 128921. From Azerbaijan. No. K. 182/ 16675.
188982. From California, U. S. A. No. 298/164326.
128983. From Shanghai, China. No. K. 104/5365.
123984. From Germany. No: K. 54/690. 128985 to 183988 . Midicage lupulina $L$. Black medick.
128925. From France. No. 41/K. 6622.
183986. From Germany. No. K. 143/ 1819.
188987. From Germany. No. K. 101/889.
183988. From Germany. No. K. 141/ 1830.

## 123029 to 123955.

From India. Seeds collected by Walter Koels, Bureau of Plant Industry, United States Department of Agriculture. Received April 7, 1937.
From Cotmbatore, Madras Preaidency, Februlary $21,1937$.

128929 and 123930. Arachis fiypogara L.

1. Fabaceaje.

Peanut.
${ }^{1}$ Presiented by Dr. Patel, Cólimbatore Agricultural College.
123929. No. 2372. A prostrate plant with runners 5 feet long.
18S930. No. 2373. A popular aroughtresistant type which matares in 130 dayis, yields 1,500 pounds per acre, and has an ofl content of 50 percent.

123929 to $123955-$ Continued.
188981 to 188955. Oryza sativa L. Poaceae.

Bice.
Presented by the Officiating Paddy Specialist, Agricultural Research Institute, Coimbatore.

Nos. 123931 to 123933 are strains from Adutural.
123931. No. 2342. Kuruvai. An earlymaturing strain of Tanjore paddy. The crop matures in 95 days and gives an average yield of 2,000 pounds of grain per acre.
123932. No. 2343. Kuruvai. Another improved strain of Tanjore paddy which takes a week longer to mature than No. 2342 (P. I. 123931) and vields 10 percent more grain per acre.
123938. No. 2345. Sarapalli. A crop largely grown in the Trichinopoly District; matures in 100 days.
Nos. 123934 to 123940 are paddy samples from Maruteru.
123934. No. 2346. Potti Basangi (Mtu. s). A strain which yields from $\mathbf{3 , 5 0 0}$ to 4,500 pounds of graln per acre.
183935. No. 2347. Pedha Basangi (Mtu. 4). A strain noted for enduring indifferent water supply during its vegetative growth. A yield of 3,000 to 3,500 pounds per acre has been recorded under such conditions.
123936. No. 2348. Garikasannavari (Mtu. 9). $\Delta$ strain which matures about 10 days earlier than most of the rices grown.
128937. No. 2349. (K. T. K. 1749). Aanna-krishnakatukuly (Mtu. 10). A fine-grained selection from Kyishnakatukulu that matures in 6 months. The strain is especially suited to rich lands where other varieties would require topping.
128938. No. 2350 . (K. T, K 1745). Krishnakatukulu strain "No. 1745. This strain is similar to Maw. to (P.I. 128987): eccept that it is not 780 finegrained
188939. No! 2851.' (K. T. K. Entefobikan tukulu: A hybrid paddy that combinea the Ane grain size of Kinishmakatafoulu and the short growing meason of Bah sangi.
128940. No. 2352. Punasa Konamant. A White cice that talzes $61 / 2$ months to mature but is highly estemed for its nutritive qualities.
Nos. 123941 to 123948 are Pattambl paddy strains, grown under Rattambl conditions.
 4rvan A strain that matures in 146 days and ylelds 2,500 pounds per acre.

## 128929 to 128955-Continued.

123942. No. 2354. Ptb. 2, isolated from Ponnaryan. A strain that matures in 135 days and yields 2,100 pounds per acre.
123943. No. 2357. Ptb. 9, isolated from Thavalakkannan, a white rice, matures in 140 days and yields 2,000 pounds per acre.
123944. No. 2371. T. 890. A strain that matures in 102 days and is grown largely in dry rain-fed areas.
123945. No. 2359. Isolated from Modan dirty glume and matures in 135 days, ylelding from 500 to 600 pounds per acre.
123946. No. 2360. Isolated from Modan black glume. A strain that matures in 135 days and yields between 500 and 600 pounds per acre. A dryland rice, cultivated on hill slopes and rising land as a rain-fed crop. Except for the glume color, it is similar to Modan dirty (P. I. 123945).
123947. No. 2361. Isolated from Kattamodan. A strain that matures in 145 days, yielding between 600 and 700 pounds per acre. A dryland paddy.
123948. No. 2362. Isolated from Chennellu. A strain that matures in 135 days and yields between 400 and 500 pounds per acre. A shade-loving and scented dryland paddy.
Nos. 123949 to 123955 are strains from Colmbatore.
123949. No. 2363. Tinnevelly Kar (Co. 9). A red rice, generally sown in June or July, which matures in 116 days and yields about $3 ; 000$ pounds per acre.
123950. No. 2364. Gobikar (Co. 10). A white rice with a dirty-colored glume, which matures in $\mathbf{1 2 5}$-days and yields about 2,500 pounds per acre.
123951. No. 2365. Jeeragasamba (nonscented). A small-gralned variety of white rice with light-brown glame, which matures in 120 days and yields about 2,900 pounds per acre.
123952. No. 2368. Jeeragasamba (scented). A strain that matures in 130 days; similar to the nonscented variety (P. I. 123951).
123953. No. 2367. Btack Puttw. Glume and rice dark purple in color. Hice glutinous. Matures in 136 digs and yields about, 1,775 ppund pav mepe. Puttu rices can be dissolyed by bopling and in certain districts are converted into a gelatinous miveet.
123954. No. 2368. Whtte Puttu. Glume color, gold, and rice white glutitious. $4-54-8 \geqslant 0$ -

123929 to 123955-Continued.
Matures in 120 days and yields 2,700 pounds per acre.
128955. No. 2369. Red Puttu. Matures in 130 days; glumes long, awned.
128956 to 123958. Saccharum. Poaceae.

Sugarcane.
From Mexico. Cuttings presented by M. C. Alcentara, lngenio de Cuatotolapam, Cuatotolapam, Veracruz. Received April 8, 1937.
123956. Cuato-302. Selfing of POJ 2878.
183957. Cuato-304. Selfing of POJ 2878. 183958. Cuato-307. Selfing of POJ 2878.

## 123959 to 123968.

From England. Plants purchased from the Barnham Nurseries, Ltd., Barnham. Received April 8, 1937.
183959 to 123987. MALUS sylvestris Mill. Malaceae.

Apple.
189959. Charles Eyre.
123960. Court Pendik Plat.

12s961. Guelph.
123962. Lady Sudeley.
123968. Madresfield Court.
123984. Paraquet.
123965. Reverend W. Wilks.
128968. Royal Jubilee.
123967. Saltcote Pipin.
123968. Pyrus communis L. Malaceae. Common pear.

## Madame Soulanges.

123969. Amygdalus persica L. Amygdalaceae.

Peach.
From the Union of Soviet Socialist Republics. Plants presented by the Institute of Plant Industry, Leningrad. Received April 9, 1937.

Liagak No. 769 T.
123970. Trifolium pratense L. Fabaceae.

Red clover.
From Canada. Seeds presented by the Seed Branch, Department of Agriculture, Toronto. Recelved April 2, 1937.
Grade No. 1.
123971. Corylus sp. Betulaceae. Filbert.

From England. Plants and scions presented by Albert Blake, Malpas, Cheshire. Received April 9, 1937.
123972 to 123978.
From the Union of Soviet Socialist Republics. Scions presented by the Institute of Plant Industry, Leningrad. Received April 12, 1937.

123972 to 123978-Continued.
183078. Prunds avium L. Amygdalaceae. Sweot cherry.
TChereshnia Keplovskaya.
183978 to 183977. Prunus cerasus L. Amygdalaceae. Sour cherry.
123978. Krasso Severa.
123974. Krassnopaynarskaya.
123975. Shubinka.
123976. Vassilievka.
123977. Vladimir.
183978. Pbunus maximowiczil Rupr. Amygdalaceae. Miyama cherry.
A large handsome tree, about 50 feet high, with horizontally spreading branches, coarsely double-toothed leaves, white flowers about $3 / 4$ of an inch across, and black fruits about the size of peas. Native to northeastern Asia.

For previous introduction see 66601.
123979 to 123987. CITRUs sinensis (L.) Osbeck:

Orange.
From Morocco. Plants presented by M. H. Brayard, Directeur de la Station Experimentale, Marrakech. Recelved April 12, 1937.
123079. Bernie.
183980. Bresilienne.
123981. Cornice.
123982. de Tétouan.
123983. Espagnole 太ans Pépins.
123984. Imperial.
128985. Precoce de Valence.

12s986. Sanguine Ovale M.
123987. Fioiédo.

123988 to 123999. Matus sylvestris Mill. Malaceae.

Apple.
From Canada. Scions presented by the Dominion Experimental Station, Ottawa. Received April 12, 1937.
183988. Oolombia.
188989. Emilia.
123990. Gerald.
183991. Grover.
183982. Lawfam.
123998. Linda.
123994. Newtosh.
123995. Osman.
123996. Sandow.
123997. Spicap.
123998. Spire.
183909. Spiza.

## 124000 to 124012.

From Cuba. Seeds presented by the Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, through F. G. Walsingham. Received May 17, 1937.
124000. ACANTHOPHOENIX CRINITA (Bory) Wendl. Phoenicaceae. Palm.
From the Department of Agriculture, Mauritius. A pinnate-leaved palm 50 to 60 feet high, with finely dissected leaves 7 to 13 feet long, sllvery white beneath; the leaf sheaths, 2 to 4 feet long, are thitckly covered with short brown bristles and spines. Native to the Mascarene Islands.
124001. Adinandra bockiana E. Pritz. Theaceae.
From the Botanical Institute, Sun Yat Sen University, Canton, China. A small evergreen tree, with ovate-oblong leaves about 5 inches long. Native to China.
124002. Alnus trabeculosa Hand.-Mazz. Betulaceae.
From the Botanical Institute, Sun Yat Sen University, Canton, China.
124003. Angophora lanceolata Cav. Myrtaceae.
Presented by Alfred Bircher, El Saff, Egypt. An evergreen tree 70 to 80 feet tall, with deciduous bark, lanceolate, leathery leaves to 5 inches long, and small white flowers in terminal corymbs on short panicles. Native to Queensland and New South Wales.
124004. Bretschnmidera sinensis Hemsl. Sapindaceae.
From the Botanical Institute, Sun Yat Sen University, Canton, China. A handsome tree about 25 feet high, with pinnate leaves, 9 to 18 inches long, of 4 to 8 lapceolate leaflets, and terminal racemes of showy pink flowers. Native to the mountains of Yunnan, China.
124005. Cordia Holstil Gurke. Boraginaceae.
Presented by Alfred Bircher, El Saff. Egypt. A tree very much like the catalpa, with broad leaves and very delicate lacelike white flowers. It is used as an avenue tree.

For previous introduction see 117048.
124006. Forienia hodainsil (Dunn) Henry and Thomas. Pinaceae.
Presented by the Botanical Institute, Sun Yat Sen University, Caṇton, China. A coniferous tree up to 40 feet in height, native to southwestern China and probably adapted for cultivation only in the southern United States.
124007. Oncoba routledgei Sprague. Flacourtiaceae.

## 124000 to $124012-C o n t i n u e d$.

Presented by Alfred Bircher, El Saff, Egypt. A spiny shrub or small tree up to about 18 feet high, with elliptic oblong or oblong, dark-green leaves from 3 to 5 inches long and large fragrant camellialike white flowers, followed by large globose woody-shelled fruits. It resembles Oncoba spinosa, but the spines are shorter. Native to tropical Africa.
124008: Pinus sp. Pinaceae. Pine.
Presented by the Botanical Institute, Sun Yat Sen University, Canton, China. Received under the name "kwangtungensis," for which a place of publication has not been found.
124009. Rhododendron simiarum Hance. Ericaceae.
Presented by the Botanical Institute, Sun Yat Sen University, Canton, China. An evergreen shrub, 6 to 8 feet high, with thick oblanceolate to obovate leaves about 3 inches long and racemose corymbs of 4 to 6 pink flowers. The funnel-campanulate flowers are about 2 inches long. Native to southeastern China at altitudes of about 2,000 feet.
124010. Sorbuts folgneri (C. Schneid.) Rehder. Malaceae. Mountain-ash.
Presented by the Botanical Institute, Sun Yat Sen University, Canton, China. A handsome Chinese tree with gracefully spreading branches and oval leaves, dark green above and white hairy beneath. The ovoid red berries are about one-half inch long.

For previous introduction see 79040.
124011. Tabebuia chrysea Blake. Bignoniaceae.
Presented by Sr. A. Dugand, Barranquilla, Colombia. A tree about 20 feet high, with 5 -foliolate membranous leaves and many showy yellow flowers in racemes, which appear before the leaves. Native to Venezuela.
124012. Tsuga longibracteata Cheng. Pinaceae.
Presented by the Botanical Institute, Sun Yat Sen University, Canton, China. A hemlock about 30 feet high, with linear leaves, dark green above, and about threefourths of an inch long. Native to southwestern China.
124013 to 124023. Avena sativa L. Poaceae. 0ats.
From India. Seeds presented by Dr. Edgar F. Vestal, Allababad Agricultural Institute, Allahabad Christian College, American Presbyterian Mission, Allahabad. Received May 26, 1937.

124013 to 124023-Continued.
A collection of hybrid oats from Pusa, Bihar, grown at the Agricultural Institute.
'124013. X-27.
124014. 8-54.
184015. B-S-1.
124016. G.
124017. K-S-10.
124018. B-52.
124019. J.
124020. C-1.
124021. Westene. From Indore, Central India.
:124022. Mulga. From Indore, Central India.
124023. A local variety.

## 124024 to 124048.

From South America. Seeds collected by L. C. Corbett, Bureau of Plant Industry, United States Department of Agriculture. Recelved May 24, 1937.
124024. Calliandra tweedi Benth. (Anneslia tweedif (Benth.) Lindm.). Mimosaceae.
From Argentina. A low tropical tree with bipinnate leaves made up of 3 or 4 pairs of very small, hairy, linear-oblong leaflets and globose flower heads with rather showy purplish stamens. Native to British Guiana.

For previous introduction see 104106.
124025. Peltophorum dubium (Spreng.) Taub. (P. vogelianum Walp.). Caesalpiniaceae.
A large handsome tree 50 to 60 feet high, with broad spreading branches and bipinnate leaves giving an excellent shade. The bright-yellow flowers are in terminal panicled racemes. Native to Brazil.

For previous introduction see 42180.
124026. Crataegus sp. Malaceae. From Valdivia, Chile.
124027. Cucurbita moschata Duchesne. Cucurbitaceae. Cushaw.
From Lima, Peru. A large crook-neck squash; flesh thick, yellow; skin warty.
124028. Cucurbita moschata Duchesne. Cucurbitaceae. Cushaw. From Lima, Peru. From the market. Fruit large; flesh thick, yellow; skin smooth.
124029. Enterolobium timbouva Mart. Mimosaceae. Timbo.
A large tree with bipinnate leaves made up of 2 to 5 pinnae, each bearing 10 to 20 pairs of falcate-oblong leaflets and large heads of greenish flowers followed by coria-

## 124024 to 124048 -Continued.

ceous kidney-shaped pods. Națive to Brazil.

For previous introduction see 107293.
124030. Erythrina falcata Benth. Fabaceae.
A tropical tree allied to Erythrina cristagalli. The oval-oblong leaflets are 4 to 6 inches long, becoming leathery with age. The scarlet flowers, a little smaller than those of $E$. cristagalli, are in small racemes In the upper leaf axils. Native to Brazil.

For previous introduction see 104114.
124031. Fuchsia sp. Onagraceae.

From Chile. A wild fuchsia.
124032. Jacaranda chelonia Griseb. Bignoniaceae.
An Argentinian tree, sometimes as much as 90 feet high, with a rounded habit and attractive fernlike foliage. The large blue flowers are in terminal panicles a foot long. The wood is valued in Argentina for cabinet work.

For previous introduction see 63987.
124033. Lupinus sp. Fabaceae.

From Puella, Chile, on Lake Todos Los Santos. A yellow-flowered lupine.
124034 to 124039. Lycopersicon esculentum Mill. Solanaceae. Tomato.
124034. A thin-walled, large-celled, wrinkled tomato, abundant in the Lima market in March.
124035. From Lima, Peru, March 1937. Fruit small-celled, thick-walled, very meaty, lobed but quite smooth; flesh red.
124036. Italian-grown seeds collected in a tomato-paste factory in the Rio Negro Valley, Argentina.
124037. From Valdivia, Chile.
124038. From Trujillo, near Chau Chau, Peru.
124039. From Trujillo, March 1937. Fruit small, subglobose, $13 / 4$ inches in diameter, smooth.
124040 and 124041. Myrtus spp. Myrtaceae.
From near Niebla, Chile, March 31, 1937. An evergreen shrub 10 to 12 feet high, with leaves about $3 / 4$ of an inch long and $3 / 8$ of an inch wide, myrtle green above and much lighter green and hoary bencath, making a compact flat leaf arrangement. The white rosaceous flowers, in clusters, are followed by berries about $1 / 4$ of an inch in diameter, borne on short stems, like a string of beads, under the leaf stem.
124040. A form with bright-blue berries.
124041. A form with black berries.

## 124024 to 124048-Continued.

124048. Oxypitalum comrulbum (D. Don) Decne. Asclepiadaceae.
A tender vine with oblong leaves, cor-date-hastate at the base and dark-blue flowers in small axillary clusters. Native to Argentina.
124049. Prosopis strombulifira (Lam.) Benth. Mimosaceae.
From San Jose, Argentina, April 23, 1937. A low shrub not over 12 inches high, with peculiar screw-shaped persistent pods that look like bright-yellow spikes of flowers a short distance away.

For previous introduction see 62080.
124044. Rubus sp. Rosaceae.

A blackberry found growing wild all over southern Chile; said to be an escape from a German introduction.
124045. Tabebuia flaviscens Griseb. Bignoniaceae.
124046. Tabebuia sp. Bignoniaceae.
124047. Tipuana tipu (Benth.) Lillo (T. speciosa Benth.) Fabaceae. Tipu-tree.
A handsome unarmed tree with compound leaves that are unevenly pinnate and showy yellow flowers in loosely branched terminal panicles. The tree is a rapid grower, and its horizontal branches make it an excellent shade tree.

For previous introduction see 88263.
124048. UgNi molinae (Barn.) Turcz. Myrtaceae.
From Valdivia, Chile. An evergreen shrub with leathery ovate leaves very like those of the myrtle, but with smaller flowers, shorter enclosed stamens, and reflexed, awl-shaped sepals and five petals. It is sometimes grown on walls and is about as hardy as myrtle. The edible berries are sold in the Chilean markets, but no attempt has been made to cultivate the shrub.

For previous introduction see 36151.
124049. Citrus sp. Rutaceae.

From Tahiti, Society Islands. Plants presented by Harrison W. Smith, Papeari. Received June 3, 1837.
a green-fleshed pomelo.
124050. Theobroma cacao L. Sterculiaceae.

Cacao.
Plants growing at the United States Plant Introduction Garden, Coconut Grove, Fla. Numbered in June 1937.
124051. Warszewiczia coccinea (Vahl) Klotzsch. Rubiaceae.
From Cuba. Seeds presented by F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos. Received June 3, 1937.

## 124051-Continued.

From the Plant Introduction Garden, Canal Zone. An ornamental tree with dark-green foliage and clusters of small flowers each $1 / 4$ of an inch across. One sepal of each cluster is brilliant scarlet and over 2 inches long, making a startling splash of color against the dark leaves. The tree blooms during the wet season, whereas most of the showy flowering trees of the Tropics bloom in the dry season. Native to Trinidad, British Weist Indies.

For previous introduction see 105872.
124052 to 124056. Allium spp. Liliaceae.
From India. Bulbs collected by Walter Koels, Bureau of Plant Industry, United States Department of Agriculture. Received June 3, 1937.
124052 and 124053. Allium cepa L. Onion.
Pujaz. From Hyderabad, Sind State, April 28, 1937, but said to have come from Surat.
124052. No. 2793. The bulbs of this variety keep much longer than those of any other onion previously seen on this trip.
123053. No. 2794. Possibly a good keeper.

124054 to 124056. Allium sativum L.
Garlic.
124054. No. 2790. Las8an. From Jodhpur, Jodhpur State, April 26, 1937.
124055. No. 2791. Lassan. From Chitorgarh, Mewar State, April 23, 1937.
124056. No. 2792. Lassan. From Hyderabad, Sind State, April 28, 1937.

124057 to 124064 . Oryza sativa L. Poaceae.

Rice.
From India. Seeds presented by the Rice Research Station, Lakkana. Received May 26, 1937.
124057. Bengalo.
124058. Jajai-77.
124059. Kangui-27.
124060. Kalangho.
124061. Lari.
124062. Prong-s6.
124063. Silver Jubilee.
124064. Torh.

124065 to 124067.
From Europe. Seeds presented by P. Upitis, Vestiena, Latvia. Received May 28, 1937.
124065. Picea abies (L.) Karst. (P. eacelsa Link). Pinaceae. Norway spruce. Received as variety Lettoniensis.
124068. Pinos sylvestris L. Pinaceae. Scotch pine. Received as variety Rigaensis.

## 124085 to 124067-Continued.

184067. Pyrus communis L. Malaceae. Common pear.
A wild pear which grew at $57^{\circ}$ north latitude.

## 124068 to 124160.

From India. Seeds and bulbs collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received May 24, 1937.
124068. Acacia sp. Mimosaceae.

No. 2618. From Kodur, Madras Presidency, April 19, 1937. A thorny shrub up to 8 feet high, found in hot dry forest.
184069 and 124070. Allium cepa L. Liliaceae.

Onion.
Pujaz. From Patna, Bihar, April 4, 1937. Globe onions that mature in the hottest weather of the year.
124069. No. 2575. A white variety.
124070. No. 2586. A red variety.
124071. Allitm sativum L. Liliaceae.

Garlic.
No. 2543. From Cuddapah, Madras Presidency, March 23, 1937. The smallest variety so far seen.
12s072. Baḋinia sp. Caesalpiniaceae.
No. 2547. From Cuddapah, Madras Presidency, March 23, 1937. A small tree, found in hot dry places, with irregularly twisted pods 8 inches long and 1 inch wide.
184078 to 124076. Brassica oleiracea eotrytis L. Brassicaceae. Caulifiower. From Patna, Bihar, April 6, 1937.
184078. Phulgobi Kataki. No. 2598. Said to be sown in summer and to be ready in November.
184074. No. 2599. Phulgobi A8ni. The eanliest sort grown in this district, maturing in 85 days with an excellent head.
184075. No. 2606. Pusaha Phulgobi. The largest sort grown in this district. The seeds are the most costly because they get worm-eaten before they ripen.
18¢078. No. 2607. Pusaha Phulgobi. Like No. 2606 (P. I. 124075), but from a different source.
18iort. Brassica rapa L. Brassicaceae.
Turnip.
No, 2615. Shalgam. From Patna, Bihar, April 8, 1937. A native flat white turnip.
184078 to 124081. CAPSICUM ANNUUM L. Solanaceae.

Common redpepper.
184078, No. 2471. Merakal. From Madura, Madras Presidency, March 9, 1937. Fruit short, $11 / 2$ inches by 2 inches, red and het.

124088 to 124160 Continued.
124079. No. 2542. From Cuddapah, Madras Presidency, March 23, 1937. Fruit red, hot, 3 inches long by $1 / 2$ inch wide; end decurved.
124080. No. 2557. From Bombay, March 30, 1937, but said to have come from Goa. Fruit red, mild, about 4 inches by 2 inches. A good sweet type for salads.
124081. No. 2584. Mirch. From the market, Patna, Bihar, April 4, 1937. Fruit 3 inches long by $8 / 4$ of an inch wide, moderately hot; chiefly used green.
124082. Cinchona sp. Rublaceae.

No. 2488. From Kodai Kanal, Palni Hills, at 7,500 feet altitude, March 13, 1937. A small tree from the rain forest, with panicles of rose-purple flowers.
124083. Citrullus colocynthis (L.) Schrad. Cucurbitaceae. Colocynth.
No. 2546. From Cuddapah, Madras Presidency, March 23, 1937. Fruits small, orange size; grows in desert.
124084 to 124090. Citrullus vulaaris Schrad. Cucurbitaceae. Watermelon.
124084. No. 2552. From Bhapapur, Hyderabad, March 26, 1937. Fruit subglobose, 8 inches in diameter and black green; flesh red and sweet.
124085. No. 2556. From Kopbal, Hyderabad, March 26, 1937. Fruit subglobose, 1 foot in diameter, green, blotched darker ; flesh red, fair.
124086. No. 2562. From Bombay, April 1, 1937. Fruit globose, 1 foot in diameter, pale green, unmarked; flesh pink, fair.
184087. No. 2567. From Calcutta, April 2. 1937. Fruit elongate, 16 by 12 inches, medium green with traces of deeper green blotching; flesh pink, fair.
124088. No. 2568. From Calcutta, April 2, 1937. Fruit elongate, 16 by 10 inches, medium green, reticuiated darker; flesh pink, watery.
124089. No. 2578. From Patna, Bihar, April 3, 1937. Fruit subglobose, 1 foot in diameter, dark green, lineblotched darker. Flesh pink, fair; rind thin.
124090. No. 2585. Tarbuza. From Patna, Bihar, April 4, 1937. Probably Bhagalpus stock.
194091. Crotalaria sp. Fabaceae.

No. 2490. From Kodai Kanal, Palni Hills, March 14, 1937. A prostrate perennial growing on sunny slopes, with ovate, shiny, hirsute leaves and large yellow flowers.

124068 to 124160 - Continued.
124092 to 124115. Cucumis melo L. Cucurbitaceae.

Muskmelon.
Nos. 124092 to 124104 were collected in Madras Presidency in March 1937.
124092. No. 2506. Kharbuza. Madras, March 17, but fruit said to have come from the Cuddapah District. Fruit flattened, 6 by 4 inches, lemon yellow, nearly smooth; flesh thick, white, sweet.
124093. No. 2507. Kharbuza. Madras, March 17, but said to have come from the Cuddapah District. Fruit oval, 1 foot long, yellow, netted coarsely and strongly, very firm, and apparently a good keeper ; flesh thick, white, sweet, unlike any American melon known.
124094. No. 2510. Kharbuza. Madras, March 17, but said to have come from the Cuddapah District. Fruit subglobose, 16 inches in diameter, tapered toward the stem, golden brown, heavily ribbed and netted; flesh salm-on-colored, firm, watery, not of good flavor.
124095. No. 2521. Tela Babasa. Sidhout, March 20. Fruit like No. 2520, but the flesh is bright salmon.
124096. No. 2524. Hingan. From Sidhout, March 20. Fruit oval, up to 1 foot long, deep gold, netted; flesh salmon-colored, 2 to $21 / 2$ inches thick, crisp. Said to keep 2 weeks at temperatures of $80^{\circ}$ to $100^{\circ} \mathrm{F}$.
124097. No. 2525. Adamshahi. From Sidhout, March 20. Fruit flattened, 8 by 5 inches, smooth, pink brown, deep ribs colored paler; flesh soft, juicy, white, fairly sweet.
124098. No. 2530. Burka Khirne. From the Cuddapah District, Sidhout, March 20. Fruit elongate, 12 by 6 inches, traces of heavy netting, mottled orange green with green ribbing; flesh white, fairly sweet.
124099. No. 2531. Shiranjir. From Chennur, March 20. Fruit fig-shaped, about 6 inches long, pink, green and brown, the colors in short lines; flesh green, often very sweet. One of the handsomest and best melons of India.
124100, No. 2532. Shabat Anar. From Chennur, March 20. Fruit subglobose, about 6 inches in diameter, pale yellow with traces of green rib lines, some netting; flesh white, sweet. One of the best.
124101. No. 2533. Probably Tela Babas8a $\times$ Shanbatanar. From SidLout, March

124068 to 124160 -Continued.
20. Fruit subglobose, white, traces of netting and of green ribbing; flesh wlite, juicy, sweet.
124102. No. 2535. Nana Pila. From Chennur, March 20. Fruit much flattened, 8 by 4 inches, smooth yellow, more or less blotched with green; flesh white, quality unknown as specimens were unripe, but'said to be especially soft.
124103. No. 2536. An Adamshahi variant from Cuddapah, March 23. Fruit flattened to subglobose, heavily ribbed, smooth, pink brown; flesh soft, juicy, white, fairly sweet. Like No. 2525 (P. I. 124097), but not so flat.
124104. No. 2537. White Burdami. Cuddapah, March 23. Fruits like Jal Burdami, but pale yellow instead of gold.
124105. No. 2553. From Bhanapur, Hyderabad State, March 26. Frult somewhat flattened, 8 by 7 inches, heavily ribbed, pink brown, smooth; flesh pale yellow-green, good. Much like the Adamshahi from Cuddapah, No. 2536 (P. I. 124103).
124106. No. 2554. From Bhanapur, Hyderabad State, March 26. Fruit oval, 1 foot long, golden yellow, obscurely netted, no ribs; flesh $2 \frac{1}{2}$ inches thick, juicy, pale salmon; like Burdami of Cuddapah District in quality, but more elongate.
124107. No. 2555. From Hospet, Madras Presidency, March 26. Fruit subglobose, 6 inches in diameter, blotched gold, brown and green with greenish rfb lines obscurely netted to smooth; flesh thin, juicy, pale orange, insipid.
124108. No. 2558. From Bombay, March 21. Fruit flattened 6 by 4 inches, ribbed, obscurely netted, orange, strongly scented; flesh orange, no flavor.
124109. No. 2560. From Allahabad, United Provinces, April 1. Fruit slightly flattened, 6 by 5 inches, yellow, ribbed green, smooth; flesh salmon, sour, juicy.
124110. No. 2561. From Allahabad, United Provinces, April 1. Fruit globose, 4 inches in diameter, yellow, smooth, unribbed ; flesh salmon, flavorless.
Nos. 124111 to 124113 . From Calcutta, April 2.
124111. No. 2563. Fruit flattened, 5 by 3 inches, ribbed, rib lines orange, smooth to obscurely netted.

## L24068 to 184160-Ontfhued.

101112. No: 2564: Fruit uneveniy elonIgate, 8 by 6 inches, flattened at ends, ribbed, mooth to obscurely netted, yellow with orange rib lines, fragrant; flesh $11 / 2$ inches thick, rather flaxorless.
101113. No. 1565. Phut. Fruit subglobose to 14 inches in diapmeter, mamooth, greenish yellow, unribbed, splits apen when ripe; flesh mealy, pale yellow, insipid. Fruit is tied upilike a pancel before completely ripe.
Nos. 124114 and 124115 were collected at Patna, Bihar State, April 5 and 7, 1937.
101114. No. 2601. Kakri. A Gnely ribbed, crook-necked variety, pale green, unripe now, makes a good salad.
101115. No. 2610. Phut Fruit cucum-ber-shaped, 15 by 5 inches, unribbed, yellow, smooth; splits open when fully ripe ; flesh white, rather insipid.
101116. Cucurbita moschata. Duchesne. Cucurbitaceae.

Cushaw.
No. 2597. Sitaphal. From Patna, Bihar, April 5. Fruits vary in sise and shape, some are oval, some flattened, all are ribbed and mostly deep pinkish buff; flesh rather thin; a good keeper.
124117. Cucumis sativus L. Cucurbitaceae. Cucumber.
No. 2600. Khira. From Patna; Blhar, April 5. A cucumber for the hot weather; planted here the end of March and ready by the end of May, the hottest time of the year.
194118. Daucus cabota L. Apiaceae.

Carrot.
No. 2580. Gajar. From Patna, Bihar, April 3. Said to be a locally grown carrot. 184119 to 184181. DoLichos lablab L. Fabaceae.

Hyacinth-boan.
From Patna, Bihar, April 4, 1937.
124110. No. 2583. Kakham Sem. Pods eaten green.
184180. No. 2501. Sufed Sem. Pods on the market are pale yellow.
124121. No. 2593. Sem Sufeè. Said to have pale yellow pods.
181182. Hypmricum sp. Hypericaceae.

No. 2486. From Kodai Kanal, Palni Hills, at 7,500 feet altitude, March 13, 1937. An attractive shrub with large golden-yellow flowers about 2 inches across; growing In the open, even on sunny slopes. The plant will stand some frost.
184188. ARGYREIA CAMPANULATA (L.) Alston. Convolvulaceae.
No. 2551. From Hospet, Madras Presidency, March 25. An evergreen scandent or twining shrub, often in low dense

## 124088 to 124160-Continued.

masses, with ovate-cordate leaves 1 to 4 fnches in diameter and large, wide, funnelhajped, rose-purple flowers in 1: to 3 -flowored cymes. The applelike fruits are $3 / 4$ to $11 / 2$ inches in diameter, including the sepals which completely envelop the fruit. Native to India.
184124. Lactuca sativa L. Cichortaceae. Garden lettuce.
:inc. 2588. From Patna, Bihar, April 4, 1037. Probably an acclimated European variety, but this seed is Indian grown.
124125 to 124128. Lagenaria limucantha
(Duchesne) Rusby. Cucurbitaceae.
Calabash gourd.
124125. No. 2549. From Hospet, Madras Presidency, March 24, 1937. A wild form with bottle-shaped green fruit 18 inches long with 5 deep ribs; found climbing in thickets.
124126. No. 2574. Sitarp Turnki. From Patna, Bihar, April 3, 1937. Fruit flattened, 16 by 8 inches, faintly ribbed. Used as the resonator of a stringed instrument called a sitar.
184187. No. 2589. Kaddu. From Patna, Bihar, April 4, 1937. An elongate, bottle-shaped sort, 3 feet long.
124128. No. 2590. Laukt. From Patna, Bihar, April 4, 1937. Fruits bottleshaped, 3 feet long.
184189. Lathyrus sativus L. Fabaceae. Bittervetch.
No. 2619. Kesorf. From Patna, Bihar, April 8, 1937.
184130. Luffa acutangula (L.) Roxb. Cucurbitaceae. Singkwa towelgourd.
No. 2595. Jhinganf. From Patna, Bihar, April 5, 1937. A popular vegetable.
184131. LUFFA CYLINDRICA (L.) Roemer. Cucurbitaceae. Suakwa towelgourd.
No. 2550. From Hospet, Madras Presidency, March 25, 1937. Growing wild in thickets. Fruit elliptical, 3 inches in diameter and very ornamental.
124132. Lycopersicon esculmantu Mill. Solanaceae. Tomato.
No. 2504. From Kodai Kanal, Palini Hills, at 7,500 feet altitude, March 15, 1937. A wild plant growing at the edge of a forest. Fruit globular, 1 inch in diameter.
184138. LYCOpersicon msculentum Mill. Solanaceae.

Tomato.
No. 2559. From Bombay, March 81, 1937. Fruit round, red, 1 inch in diameter. 124184. MOMORDICA CHARANTIA L. Cucurbitaceae.

Balsam-pear.
No. 2572. Uchhi. From Calcutta, April 2, 1937. Fruits top-shaped, about $11 / 2$ inches long. One of the smallest varieties cultivated, but considered one of the best.

## 124068 to 124160-Continued.

124135. Momordica charantia L. Cucurbitaceae.

Balisem-pear,
No. 2596. Karela. From Patna, Bithar, April 5, 1937. A green fruit 5 inches long.
124186 and 124187 . Mobes migra L. Moraceae. Blaok mulberry.
Shahbut. From Patna, Bihar, April 3, 1937.
124186. No. 2576. Fruit 5 inches long by three-eighths of an inch in diameter, black to purplish, sweet-acid, inclined to be a bit watery.
124137. No. 2577. Fruit 2 inches long by 1/2 inch in diameter, black, sweet-sour, rather insipid.
124138. Obiza sativa L. Poaceae. Rice,

No. 2608. Irani. From Patna, Bihar, April 6, 1937. A common rice, locally grown, ripe in 120 days. The earliest variety grown here.
124139. Osbeckia sp. Melastomaceae.

No. 2475. From Kodai Kanal, Palni Hills, at 7,500 feet altitude, March 10, 1937. A bushy shrub up to 8 feet high, growing usually in the open and bearing, over a long period, an abundance of purple flowers about 2 inches in diameter. It will stand some frost.

## 124140. PASSIflora sp. Passifioraceae.

No. 2499. From Kodai Kanal, Palni Hills, at 7,500 feet altitude, March 14, 1937. An attractive climber, found at the edge of a forest, with 3 -lobed, maplelike leaves. The long-tubed cerise flowers are 6 inches long, and the elliptical fruits are 4 inches long.
124141. Pongamia pinnata (L.) W. fr. Wight. (P. glabra Vent.). Fabaceae.
No. 2548. From Cuddapah, Madras Presidency, March 23, 1937. A handsome tree with dark shiny leaves and an abundance of small purple flowers. The leaves have value as green manure, the seeds for oil, and the tree as a whole for shade.
124142. Raphands sativus L. Brassicaceae.

Radish.
No. 2613. Muli. From Ṕatna, Bihar, April 8, 1937. An early, long, white radish.
124143. Rubus sp. Rosaceae.

No. 2473. From Kodai Kanal, Palni Hills, at 7,500 feet altitude, March 10. A shrub up to 30 feet high, which forms impassable thickets in places; found in the forest and also on sunny hillsides. Fruit yellow to orange, $1 / 2$ ineh in diameter, small seeds, somewhat acid, of refreshing flavor, and borne abundantly. The shrub tolerates some frost.

## 124068 to 124160-Continued:

## 184144. Rubus mp. Rosaceae.

No. 2474. From Kodai Kanal, Paln! Hills, at 7,500 feet altitude, March 10 , 1937. A ghrub 8 feet high. found in the open. The mall blue-black;'; tomentote fruits are $\% / 8$ of an inch in diameter.
124145. Salvia sp. Menthaceae.

No. 2571. Frem Kodur, Madras Presidency, March 18, 1937. Plants 3 feet high, found growing in clumps in hot dry areas. Howers lavender.
184146 to 124151. Solandm milongena L.
Solanaceae.
Eggplant.
From Patna, Bihar, from April 3 to 8, 1937.
124146. No. 2605. Bengan. Fruit deep purple, 7 by $31 / 2$ inches, few seeds. A popular market variety.
124147. No. 2612. Muktakasi Bengan. Fruit subglobose, 6 inches in diameter, purple black. Considered among the best.
124148. No. 2614. Bengan. A round, Hight-purple fruit, 4 inches in diameter ; a native variety.
124149. No. 2573. Bengan. Fruit white, 7 inches long by $21 / 2$ inches across.
124150. No. 2579. Bengan. Fruit subglobose, 5 inches in diameter, pale purpish with a mantle of dark green, and rather few seeds.
124151. No. 2592. Bengan. Fruits 7 by $31 / 2$ inches, deep purple, few seeds. A popular variety.
124152. SoLinum sp. Solanaceae.

No. 2617. From Nilambur, Madras Presidency, March 5, 1937. A shrubby perennial up to 6 feet high, with whitish towers.
124158. Strychnos sp. Loganiaceae.

No. 2545. From Kodur, Madras Presidency, March 18, 1937. A medium-sized, ornamental tree growing in dry places, with orange fruits as large as a tennis ball.
124154. Trichosanthes anguina L . Cucurbitacea.

Snakegourd.
No. 2582. Chichinda. From Patna, Bihar, April 4, 1937. Used as a vegetable while tender.
124155. Triticum anstivum L. Poaceae.

Common wheat.
No. 2604. Gehum. From Patna, Bihar, April 5, 1937: A hard wheat which makes good bread.
124156. Vicia fabi L. Fabaceae.

Broadbean.
No. 2594. Bagla. From Patna, Bihar, April 5, 1937. Beans eaten both green or dried.

## 124068 to 184160-Continued.

12\&157. Viasa sinminsim (Torner) Savi. Fabaceae. Cowpea.
No. 2687. Labra. From Patna, Bihar, April 4, 1037. Said to have pods 1 foot long; green pode are eaten.
184158. Vigna sinmesis (Torner) Eavi. Fabaceae. Cowpea.
No. 2566. From Calcutta April 2, 1937. Used as dry beans.
124159. (Undetermined.)

No. 2487. From Kodai Kanal, Palni Hills, March 13, 1837, at 7,500 feet altitude. An evergreen tree with a trunk 18 inches in diameter, growing in rain forest. 124160. (Undetermined.)

No. 2616. From Patna, Bihar, April 8, 1987. A prostrate leguminous perennial with an abundance of bright salmon-pink flowers, borne over a long period. Probably attractive as a rock-garden plant.

## 124161 to 124166.

From South America. Seeds collected by Raymond Stadelman, Bureau of Plant Industry, United States Department of Agricultare. Received in April and June 1937.
124161 to 124163. Lycopersicon msculionTUM MIII. Solanaceae. Tomato.
From the market, Huehuetenango, Departamento Huehuetenango, Guatemala, February 25, 1937, at 1,800 meters altitude.

12s161. Tomate Oorriente.
124162. Manzana (apple-shaped).
124168. Pishtto. A small round tomato.
18410. Nicotiana tabiacum L. Solanaceae. Tobacoo.
From Chiantla, Departamento Huehuetenango, Guatemala, at 2,000 meters altitude, February 27, 1937.
124165. LYCOPERAICON mSCULENTUM Mill. Solanaceae.

Tomato.
Criollo. From Isniota, near Betijoque, Estado Trujillo, Venezuela.
12\&166. Nicotiana tabacum L. Solanaceae. Tobacco.
Blanco. From Isnota, near Betijoque, Estado Trujillo, Venezuela.

124167 to 124178, Citrus spp. Rutaсеаө.
From South America. Seeds collected by Dr. H. S. Fawcett; Citrus Experiment Station, Riverside, University of California. Received June 2, 1937.
124167 to 124170. Citrus adrantium.L. Seville orange.
From Bella Vista, Argentina, April 13, 1937.

## 124167 to 124178-Continued.

184167. S. A. 13. Namanjo Lorio de Sevilla.
184168. S. A. 15. Naəanjo Agrio (Apepu).
184169. S. A. 15-A. Naranjo Agrio Sals chfolia.
184170. S. A. 16. Naranjo Agrio.
184171. Citrus limetta Risso.

Sweet lime.
S. A. 22. A small sour lime. From Ásuncion, Paraguay, April 21, 1937.
124178 and 124178. Citrus singnsis (L.) Osbeck. Orange.
124172. S. A. 20. A seedling tree from the old location of San Carlos Mission, San Carlos Correntes, near Pindafoy, April 25, 1937.
124178. S. A. 23. From Salto, Uruguay, April 28, 1937. A sweet seedling, tree 77 years old.
124174. Citrus sp.
S. A. 12. Laranjo Cravó. From Limeira Fruit Farm, Santos, Brazil, April 7, 1937. 124175. Citros sp.
S. A. 17. From Posados, Argentina, April 24, 1937. A sour orange tree, possibly over 100 years old, near the Manez orcbard.
124176. Citrus sp.
S. A. 18. April 23, 1937. From an old sweet seedling orange tree near the ruins of San Ignacio Mission, northeast of Posados, Argentina.
124177. Citrus sp.
S. A. 19. April 23, 1937. From a very oid sweet seedling orange tree at the Santa Ana ruins, Argentina.
124178. 'Citrus sp.
S. A. 21. April 20, 1937. Apepr. A sour orange from the city park at Agunción, Paraguay.

## 124179 to 124242.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received May 27, 1937.
124179. Abelmoschus msculentus (L.) Moench. Malvaceae.

0kra.
No. 2647. Bhindi. From Bhagalpur, Bihar, April 2, 1937.
124180. Abelmoschus msculentus (L.) Moench. Malvaceae. Okra.
No. 2688. Bhindi. From Bhopal, Bhopal State, April 16, 1937.
124181. ALLIUM CEPA L. Liliaceae. Onion,

No. 2685. Pujaz. From Bhopal, Bhopal State, April 16, 1937. Said to be a mixture of yellow and red globe onions.

## 124179 to 184248-Continued.

184182. BRASsICA OLERAGMA BOTRYTIS L. Brassicaceae.

Cauliflower.
No. 2689. Phulgobs. From Bhopal, Bhopal State, April 16, 1937. Said to be a locally grown variety.
124183 to 124203. Citrullus volgaris Schrad. Cucurbitaceae. Watermalon.
Nos. 124183 to 124193. Collected in Bihar State from April 8 to 11, 1937.
124183. No. 2611. From Patna, Tarbuza. Fruit subglobose, 7 , inches in diameter, medium green, blotch-lined with darker green; flesh red, flat.
124184. No. 2620. Tarbuza. From Gaya. Fruit subglobose, 10 inches in diameter, dark green, unmarked; rind extremely thin, less than $1 / 4$ of an inch thick; flesh purple pink, fair, with the heart constituting one-half of the melon.
124185. No. 2621. Tarbuza. From Gaya. Fruit subglobose, 10 inches in diameter, sea green with darker green netlines; flesh bright rose, fair quality; rind very thin, $1 / 4$ inch thick.
124186. No. 2622. Tarbuza. From Gaya. Fruit subglobose, 10 inches in diameter, sea green obscurely netted with darker green; flesh rose; rind $1 / 2$ inch thick.
124187. No. 2632. Tarbuza. From Gaya. Fruit subglobose, 12 inches in diameter, deep green, reticulated with darker green; rind $1 / 2$ inch thick; flesh rose, fair quality.
124188. No. 2633. Tarbuza. From Gaya. Fruit subglobose, 14 inches in diameter, pale green with broad black stripes of darker green; rind $1 / 2$ inch thick; flesh rose, good quality.
124189. No. 2637. Tarbuza. From Gaya. Fruit somewhat elongate, deep green, 1 foot long; flesh red; rind $1 / 2$ inch thick.
184190. No. 2638. Tarbuza. From Gaya. Fruit globose, 10 inches in diameter, pale green with blotched stripes of darker green; flesh red; rind $1 / 2$ inch thick.
124191. No. 2639. Tarbuza. From Gaya. Fruit light green, unmarked, obscurely but distinctly ribbed, flattened, 1 foot by 10 inches; flesh pink, slightly acid; rind $8 / 4$ of an inch thick.
124192. No. 2640. Tarbuza. From Bhagalpur. Fruit globose, 18 inches in diameter, weight about 30 pounds; deep green, unmarked; rind 1 inch thick; flesh crisp and fairly sweet. This is a well-known locality for watermelons.
184193. No. 2641. Tarbuza. From Bhagalpur. Fruit subglobose, 14 inches in

## 124179 to 124848-Continued. . .

diameter, light green, obscurely reticulated with darker green, the lines remaining most conspicupusly as rib lines; flesh dark pink, quality good; rind $8 / 4$ of an inch thick.
Nos, 124194 to 124199. Collected at Allahabad, United Provinces, April 15, 1937. Tarbuza.
124194. No. 2671. Said to have come from Farukhabad. Fruit subglobose, 1 foot in diameter, pale green with irregular thin rib lines of darker green; rind $1 / 2$ 'inch thick; flesh rose, of good quality.
124195. No. 2672. Said to have come from Farukhabad. Fruit subglobose, 1 Ioot in diameter, light green with blotched stripes of darker green; rind $3 / 4$ of an inch thick; flesh rose, good quality.
124196. No. 2673. Fruit subglobose, 1 foot in diameter, greenish white, unmarked; rind $9 / 4$ of an inch thick; flesh rose, fair quality.
184197. No. 2674. Said to have come from Farukhabad. Frult subglobose, 16 inches in diameter, deep green with traces of darker reticulations; flesh deep rose, of good textùre and flavor. One of the best.
124198. No. 2675 . Fruit subglobose, 16 inches in diameter, pale green with rib lines of darker green; rind $1 / 2$-inch thick; flesh of good flavor and texture and with very few seeds.
124199. No. 2676. Fruit subglobose, 14 inches in diameter, deep green; rind $1 / 2$-inch thick; flesh deep rose, of poor quality and fair flavor.
184800. No. 2677. From Itarsi, Central Provinces. . Fruit subglobose, 10 inches in diameter, pale green with straight broad rib lines of darker green, rind $1 / 2$-inch thick; flesh deep rose, sweet, very good.
124801. No. 2681. From Bhopal, Bhopal State, April 16.
124202. No. 2703. Tarbuza. From UJjain, Gwalior State, April 18.
184208. No. 2704. Kaligara. From UJJain, Gwalior State, April 18.
124204 to 124816. Cucumis melo I. Cucurbitareae. Kugkmelon.
Nos. 124204 to 124207, Kharbuza. From Gaya, Bthar State, April 9, 1937.
124804. No. 2623. Fruit subglobose, 10 inches in diameter, unribbed, green, heavily netted; flesh $11 / 2$ inches thick, salmon color, insipid.
184205. No. 2624. Fruit elongate, 12 by 7 inches, obscurely ribbed,'smooth, yel-

## 124179 to 124242-Continued.

low to salmon plink, often rib lined with deep green; flesh to $11 / 2$ inches thick, pale salmon, insipid.
184206. No. 2625. Fruit subglobose to 8 inches in diameter, smooth, obscurely ribbed, yellow, rib lined with dark green; flesh thin, pale salmon, rather acid, poor.
124207. No. 2631. Fruit subglobose, somewhat flattened, 8 inches in diam. eter, obscurely ribbed, obscurely netted, pink brown, blotched green with deep green rib lines; flesh salmon, $11 / 2$ inches thick, fragrant but insipid.
Nos. 124208 to 124212, Kharbuza. From Bhagalpur, Bihar, April 11, 1937.
124808. No. 2643. Fruit elongate, 15 inches long, compressed, 7 to 10 inches in diameter, smooth with traces of ribs, lemon yellow, scented; flesh $11 / 4$ inches thick, salmon, juicy, insipid.
184809. No. 2644. Fruit 8 by 5 inches, heavily ribbed, smooth, pale yellow; fiesh $11 / 2$ inches thick, salmon, dry, insipid.
184810. No. 2651. Fruit elongate, tapering to stem end, 12 by 8 inches, obscurely ribbed, yellow, nearly smooth; flesh firm, crisp, salmon, juicy, $21 / 2$ inches thick, with flavor like a raw potato.
124811. No. 2652. Fruit elongate, 10 by 8 inches, abruptly flattened at ends, deeply ribbed, smooth, lemon yellow, flesh $11 / 2$ inches thick, white, scented, rather dry, flavorless.
184812. No. 2653. Fruit subglobose, flattened at blossom end, tapering to stem end, 10 inches in diameter, heavily ribbed, slightly rusty, yellow with deep green rib lines; flesh fragrant, $21 / 4$ inches thick, deep salmon, watery.
Nos. 124213 and 124214, Kharbuza.
From Itarsi, Central Provinces, April 16, 1937.
184813. No. 2678. Fruit subglobose, 9 inches in diameter, flattened at the blossom end, faintly ribbed, heavily netted, with green rib lines, yellow blotched with russet brown; flesh 2 inches thick, acid, interesting.
124214. No. 2679. Fruit globose, 7 inches in diameter, lemon yellow, obscurely netted, broad rib lines of brownish yellow; flesh 2 inches thick, salmon, insipid:
124215. No. 2701. Kharbuza. From Ujjain, Gwalior State, April 18, 1937. A locally grown variety.
124216. No, 2684. Kakri. From Bhopal, Bhopal 'State, April 16, 1937. Fruit

## 124179 to $124242-$ Continued.

crook-necked, elongate, to 2 feet long, irregularly and closely ridged, pale green. A form now common on the market.
124217 to 124823. Cucumis sativos L. Cucurbitacea. Cucumber.
124817. No. 2636. Kakri. From Gaya, Bihar State, April 10, 1937. A hotweather cucumber.
Nos. 124218 to 124221, Kakri. Frem
Bhagalpur, Bihar State, April 11, 1937.
124218. No. 2649. A long variety, grown in the rains.
124219. No. 2650. A short variety, grown in the hot seasoin before the monsoon. None on the market yet.
124820. No. 2654. A long variety.
124821. No. 2655. A short variety.

Nos. 124222 and 124223, Khira. From Ujjain, Gwalior State, April 18, 1937. The famous "rains" cucumber which is known throughout northern India for its fine quality.
124822. No. 2693. 124823. No. 2696.

184224 and 184295. CuCurbita moschata Duchesne, Cucurbitaceae. Cughaw.
Kumsa. From Bhagalpur, Bihar, April 11, 1937.
124224. No. 2642. Fruit flattened, 14 by 8 inches, ribbed, creamy buff; flesh yellow, $21 / 2$ inches thick, moderately sweet and fine grained.
184825. No.2645. Probably a mixture of elongate and fiattened varieties.
184\&26 to 124228. DAUCUS CAROTA L. Apiaceae.

## Carrot.

124826. No. 2648. From Bhagalpur, Bihar State, April 11, 1937. A purple carrot ; small, stubby, and irregular.
124827. No. 2690. From Bhopal, Bhopal State, April 16, 1937. A locally grown form, said to be orange.
124828. No. 2702: From Ufjain, Gwalior, April 18, 1937. A locally grown form, said to be yellow.
124229 to 124231 . Diospyros spp. Diospyraceae. Persimmon.
124829. Diospyros montana Roxb.

Yountain persimmon,
No. 2634. Makerken. From Gaya, Bihar, April 10, 1937. A small bushy tree growing in dry places, with creamy flowers and orange fruits $11 / 2$ inches in diameter. Attractive.
124830. Diospyros sp.

No. 2603. Ghaf. From Patna, Bihar, April 5, 1937. Fruit tomato-shaped, orange yellow, astringent, $21 / 2$ to 3 inches across.

## 124179 to 184842-Continued.

124231. DIospyros sp.

No. 2668. From Bhagalpur, Bihar, April 13, 1937. Fruit súbglobose, 2 inches in diameter, orange, somewhat sweet, edible.
124232. Ficus sp. Moraceae.

No. 2602. From Patna, Bibar, April 5, 1937. A handsome tree with light-green, elliptical leaves about 4 inches long and purple, orange-mottled fruit about 1 inch acrose.
124233. Luffa acutangula (L.) Roxb. Cucurbitaceae. Singikwa towelgourd.
No. 2687. Rabur. From Bhopal, Bhopal State, April 18, 1937.
124234. LUFFA CYLINDRICA (L.) Roemer. Cucurbitaceae. Suakwa towelgourd.
No. 2682. From Bhopal, Bhopal State, April 16, 1937.
124235. Lycopersicon msculintum Mill. Solanaceae. Tomato.
No. 2609. From Patna, Bihar State, April 7, 1937. Fruit red, 3 inches long, of good flavor.
124236. Momordica charantia L. Cucurbitaceae.

Balmam-pear,
No. 2683. Karela. From Bhopal, Bhopal State, April 16, 1937.
124237. Phasmolus lunatus L. Fabaceae. Lima bean.
No. 2669. From Allahabad, United Provinces, April 15, 1937. A bean with a long bearing season; said to have been introduced by a missionary.
124238. Pisum sativum L. Fabaceae.

Pea.
No. 2680. Matar. From Bhopal, Bhopal State, April 16, 1037.
124239 to 124241. Solandm mimongena L. Solanaceae.

EgEplant.
124239. No. 2646. Bengan. From Bhagalpur, Bihar State, April 11, 1937, A large globose purple fruit.
124840. No. 2687. Bengan. From the Botanic Section, Department of Agriculture, Sabour, Bihar State, April 13, 1937. Fruit purple, drop-shaped, about 1 foot long; skin thin, few seeds. A fine sort, derived from Bengal stock.
124241. No. 2686. Bengan. From Bhopal, Bhopal State, April 16, 1937. Fruit elongate, 12 by 4 inches, black purple.
124242. HoLoptiled intigarifolia (Roxb.) Planch. Ulmaceae.
' No. 2635. Chireta. From Gaya, Bihar State, April 10, 1937. A tall elmlike tree to 3 feet in diameter, with obovate leaves up to 4 inches long.

For previous introduction see 116039.

## 124243 to 124260.

From India. Seeds presented by the Lloyd Botanic Garden, Darjeeling, through R. A. Fenton, M. D., Portland, Oreg. Received June 9, 1937.
124248. Ardisia macrocarpa Wall. Myrsinaceae.
A shrub up to 4 feet high with narrowly ovate leaves with crisped-crenate margins, bearing conspicuous glands in the crenations. The umbels of very small reddish flowers are followed by dotted, bright-red berries $1 / 2$ to $1 / 8$ of an inch in diameter. Native to Sikkim and Nepal at altitudes of 3,000 to 7,000 feet.

For previous introduction see 102752.
124244. Astilbe rivularis Buch.-Ham. Saxifragaceae.
A perennial herb, native to Nepal and western China, with stems 3 to 5 feet high, covered with tawny hairs. The biternate leaves have dentate-ovate leaflets 1 to 3 inches long, and the creamy-white flowers, with pure-white stamens, are borne in large panicled spikes at the top of the stems.

For previous introduction see 122068.
124245. Carix cruclata Wahl. Cyperaceae.
124246. Daphng involucrata Wall. Thymelaeaceae.
A lax shrub up to 20 feet high, with thin oblong-lanceolate leaves 3 to 6 inches long and silky, white, fragrant flowers in longstemmed heads. It is native to the Sikkim region in India.

For previous introduction see 94076.
124247. Erythrina arborescens Roxb. Fabaceae.

Coraltree.
When covered with its racemes of bright scarlet flowers, this tree is very attractive and is often planted as an ornamental. There are but few prickles on its branches, and the thin greenish trifoliolate leaves are often a foot wide. The strongly curved pods are about 1 inch wide and 6 to 9 inches long. The tree is native to the central and eastern Himalayas up to $\mathbf{7 , 0 0 0}$ feet altitude.

For previous introduction see 104771.
124248. GOUANIA LEPTOSTACHYA DC. Rhamnaceae.
A climbing shrub with ovate, subcordate leaves 3 to 4 inches long and spikes 8 to 12 inches long of small greenish flowers. Native to India.
124249. Gymnosporia thomsoni Kurz. Celastraceae.
A small spiny tree with lanceolate to oblong-lanceolate leaves about 4 inches long and inconspicuous flowers. Native to the Sikkim Himalayas at altitudes of 2,000 to 5,000 feet.

## 124248 to 124060-Continued.

184950. Imax hoormbi King. Aquifoliaceae. EFally.
A small dectiduous tree with leathery, marrowly oblong or lanceolate leaves 3 to 5 inches long and amall globular berries $1 / 6$ of an inch in diameter. Native to the Sikkim Himalayas.

For previous introduction see 102903.
184851. Ilew insignis Hook. f. Aquifoitaceace.

Holly.
A mall tree or shrub with thick grooved branches, which are purplish when young. The dark-green, leathery leaves, 5 to 9 inches long, are armed at the margins with small spine-tipped teeth. The brigtt-red, oval berries are nearly $1 / 2$ inch long. Native to the Sillim Himalayas where it grows at 7,000 feet altitude.

Fror previous introduction see 122006.
18485a. JABMDAUM UNDULATUM (L.) Ker. Oleaceac.
A climbing jasmine with slender hairy branches, opposite leaves about 2 inches long, and white, long-tubed flowers in terminal clusters of 6 to 10 flowers. Native to the Himalayas.

For previous introduction see 65259.
124858. LILItM WALLICHIANUM Schult. f. Liliaceae.

Wallich Hiy.
A lily 4 to 6 feet high, with inear leaves 6 to $\theta$ inches long, and usually solltary, creamy, waxy-white, fragrant flowers 9 Inches long, which are golden yellow at the base inside and green outgide.

For previons introduction see 115883.
124254. MaEEA Macropiylla Wall. Myrsinaceae.
A large shrub or small tree, native to the eastern Himalayas. When the bark is cut, a resinous substance exudes. The wood is light brown and moderately hard.

For previous introduction see 93214 .
124255. MARsDenia thnacissima (Roxb.) Wight and Arn. Asclepiadaceae.
A climbing plant, native to the Himalayas up to 5,000 feet, from Kumaon to Burma. The bark of the stems yields a fine silky fiber which is used for bowstrings because of its strength and durability. It is also used in making fishing nets, as submersion in water does not injure it.

For previous introduction see 39885.
124856. Dismodium gyroides DC. Fabaсеае.
A shirubby leguminous plant 8 to 10 feet high, native to the warmer part of the central and eastern Himalayas. It has pubescent leaves and terminal racemes of red-purple flowers and is found growing in

## 124243 to 124260-Continued.

valleys, at times even on the borders of swamps.

For previous introduction see 116599.
124257. Osbechia crinita Benth. Melastomaceae.
A much-branched shrub 4 to 8 feet high, with small narrow bristly leaves and large purple or pure-white flowers borne in terminal clusters. The plant is abundant at diltitudes between 4,000 and 8,500 feet in the mountains of Sikkim and Bhutan, India.

Fior previous introduction see 102908.
12apbe, Osbectia nmpalensis Hook. Melastomaceae.
An evergreen shrub about 18 inches high, mative to the Himalayas, with a rough erect stem, opposite, lanceolate rigld leaves, and large purplish-rose flowers in terminal and axillary paniclem or corymbs.

For previous introduction see 122113.
124259. Pogostemon glabrum Wall. Menthaceae.
An erect, stout perennial related to $\mathbf{P o}$ gostemon plectranthoides. Native to the Himalayan region at altitudes of 1,000 to 3,000 feet.
124260. RHODODENDRON ARBORXUM J. W. Smith. Ericaceae. Tree rhododendron.
A bushy tree which sometimes attains a height of 25 feet, common in the temperate Himalayas from the Indus River to Bhutan at altitudes between 5,000 and 10,000 feet.

For previous introduction see 122127.
124261. ZEA MAYs L. Poaceae. Corn. From Estonia, Europe. Seeds presented by Edward Wirgo, Estonian Ministry of Foreign Affairs, through Walter A. Leonard, Charge d'Affairy, American Legation, Tallinn. Received May 12, 1937.
Sweet corn raised in Estonia from seed originally received from the United States.
124262. Luffa acutangula (L.) Roxb. Cucurbitaceae. Singkwa towelgourd. From India. Seeds presented by Adeltha Henry Peterson, Adyar, Madras Presidency. Received June 14, 1937.
Turai, or ridge gourd.
124263. Erythrina sp. Fabaceae.

From Guatemala. Seeds presented by the Ministerio de Agricultura, Direccion General de Agricultura. Received June 11, 1937.
124264. Gronoma sp. Phoenicaceae.

Palm.
From Central America. Seeds presented through David Barry, Los Angeles, Calif. Received June 11, 1937.

## 124264-Continued.

A palm collected on the slope of a volcano at 6,000 feet, above the line of occasional frosts. One of the forest undergrowth palms, probably requiring little heat but shade and moisture. The geonomas are slender spineless palms with a ringed, reedlike stem and with more or less pinnatisect leaves usually crowded in a showy terminal cluster.
124265. StYLOMA PaCIFICA (Seem. and Wendl.) O. F. Cook. Phoenicaceae. Fij1 fan palm.
From Virginia Key, near Miami, Fla. Seeds collected by David Fairchild on the estate of Hugh Matheson. Received June 11, 1937.

A handsome tropical fan-leaved palm from the Fiji Islands. Sometimes planted around Miami, though seldom fruiting; often confused with Styloma thurstonit, a smaller apecies much more common in southern Florida and often fruiting. The fruits of S. pacifica are nearly half an inch in diameter, deep purple at maturity, and are borne in large clusters among the leaves, the inflorescences being much shorter than those of A. thurstonii, which often project far beyond the leaves or droop nearly to the ground.

## 124266 to 124376. Triticum aestivum L.

Poaceae.
Common wheat.
From China. Seeds presented by Dr. T. H. Shen, National Agricultural Research Bureau, Shaolingwei, Nanking. Received June 11, 1937.
124266. No. 1.
124267. No. 2.
124868. No. 10.
124269. No. 12.
124270. No. 25.
124271. No. 28.
124278. No. 29.
124873. No. 37.
124874. No. 46.
124875. No. 49.
124876. No. 57.
184877. No. 64.
124278. No. 66.
124279. No. 68.
124280. No. 69.
124281. No. 81.
124282. No. 112.
124283. No. 113.
124284. No. 114.
124285. No. 117.
124886. No. 120.
124287. No. 121.
124888. No. 123.
124289. No. 124.
124290. No. 133.
124201. No. 137.
124292. No. 141.
124293. No. 154.
124294. No. 158.
124295. No. 164.
124296. No. 165.
124297. No. 169.
124298. No. 170.
124899. No. 171.
124300. No. 177.
124301. No. 187.
124302. No. 196.
124308. No. 203.
124804. No. 211.
124305. No. 212.
124306. No. 218.
124307. No. 221.
124308. No. 226.
124309. No. 231.
124310. No. 236.
124811. No. 239.
124312. No. 241.
124313. No. 242.

124266 to 124376-Continued;
124814. No. 246. 124843. No. 399.

184s15. No. 247. 124344. No. 407.
124816. No. $248 . \quad$ 124345. No. 408.
124817. No. 254. 124846. No. 415.
124318. No. $262 . \quad$ 124347. No. 423.
124319. No. $264 . \quad 124348$, No. 427.
124880. No. $266 . \quad$ 124849. No. 430.
124381. No: 267. : 124350. No. 433.
124882. No. $268 . \quad 124351$. No. 444.
124888. No. 269. 184358. No. 457.
124824. No. 306. 124358. No. 462.
124325. No. 340. 124354. No. 471.
124326. No. 345. 124355. No. 476.
184827. No. 345-A. 124356. No, 481.
124388. No. 346. 184857. No. 483.
184329. No. 349. 184358. No. 486.
124330. No. 352. 184359. No. 487.
124331. No. $357 . \quad$ 184860, No. 1.
124332. No. 360. 124361. No. 2.
124838. No. 361. : 124362. No. 26.

184834: No. $365 . \quad$ 124863. No. 22-14.
1284835. No. 366. 124864. No. 124.
124386. No. 378. 124865. No. 141-9.
124837. No. 380. 124366. No. 169.
124838. No. 382. 124367. No. 1-195.
124839. No. 389. 124368. No. 1-196.
124340. No. 303.124369. No. 438.
124341. No. $395 . \quad$ 124370. No. 716.
!184342. No. 397. 124371. No. 2905.
Nos: 124372 to 124376 were received without numbers.

| 124878. |  | 124876. |
| :--- | :--- | :--- | :--- |
| 184878. |  | 124876. |

124874. 

124377 to 124380. Phasirolus spp. Fabaceae. Bean.
From: India. Seeds presented by D. Rhind, Economic Botanist, Burma, Mandalay. Received June 2, 1937.
ieabiti. Phasholus lunatus L.
Lima bean.
Peleik Pya.
124378 to 124380. Phasiolus vulgaris L. Common bean.

## 124378. Pebyugale. <br> 124379. Pegyá.

124380. ' Peni.
124381. Cinchona officinalis L. ( $C$. ledgeriana Moens.). Rubiaceae.
From the Philippine Islands. Seeds presented by Arthur E. Fischer, Director of Forestry, Bureau of Forestry, Manila. Received June 9, 1937.
From Kaatoan, Bukidnon, Mindanao Island, about 3,500 feet above sea level.
For previous introduction see 18936.

## 124382 and 124383. Oryza sativa L.

 Poaceae. Rice.From India. Seeds presiented by D. B. Das, Botanical Assistant, Karimganj Farm, Karimganj. Received June 14, 1937.
124382. As. s. Basmati.
124383. S. 22. Latisail.

## 124384 to 124390.

From Oklahoma. Seeds presented by Francis A. Flood, Oklahoma City. Received June 11, 1937.
124384 to 124389. A collection of beans that have been used for centuries by the Hopi Indians in the southwestern portion of the United States.
124384 and 124885. Phasbolus coccineus L. Fabaceae. Scarlet runner bean.

Used like shelled peas while still green; also used for dye.
124386 and 124887. Phaseolus lunatus L. Fabaceae.

Lima bean.
The baby lima bean that was taken from the Hopi country to California.
124388 and 124389. Phasbolus vdlgaris L. Fabaceae. Common bean.
Grown in Arizona.
184588. No. 1.

184389: No. 2.
124390. Solanum jamesil Torr. Solanaceae. Nightshade.
From the Navajo Reservation, northwestern Arizona. A species closely related to the potato, which grows wild in the mouths of washes or creek beds that are looded occasionally during the growing season.

For previous introduction see 28770.
124391 to 124397 . Oryza sativa L. Poaceae. Rice.
From India. Seeds presented by the Paddy Specialists, Coimbatore, Madras Agricultural Department, Madras Presidency. Received June 15, 1937.
124391. Mtu. 5.
184392. Adt. 10.
124395. Co. 8.
124303. T. 225
124396. T. 573.
124394. Co. 4.

## 124398 to 124501.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received June 7, 1937.
124398 and 124899. Abelmoschus msculentUs (L.) Moench. Malvaceae. Okra. 124398. No. 2707. Bhindi. From Ujjain, Gwalior State, April 18, 1937.
124399. No. 2819. Bhindi. From Hyderabad, sind State, April 28, 1937.

124398 to 124501 -Continued.
124400 and 124401. Allium cepa L. Liliaceae.

Onion.
124400. No. 2722. From Udaipur, Mewar State, April 20, 1937. Said to be a red globe onion.
124401. No. 2807. From Hyderabad, Sind State, April 28, 1937. Said to be a white globe onion.
124402 and 124403. BENINCASA HISPIDA (Thunb.) Cogn. Cucurbitaceae.

## Waxgourd.

124402. No. 2738. Petha. Presented by the Superintendent of the State gardens, Udaipur, Mewar State, April 21, 1937. A very large-fruited variety.
124403. No. 2748. Petha. From Udaipur, Mewar State, April 22, 1937.
124404. Beta vulgaris L. Chenopodiaceae. Common beet.
No.. 2807. Palag. From Hyderabad, Sind State, April 28, 1937.
184405 to 124408. Capsicum AnNUUM L. Solanaceae.

Common redpepper.
124405. No. 2770. Mirch. From Ajmer, Rajputana State Apill 27, 1937. Fruit red, mild, tapering, 4 by $11 / 2$ inches.
124406. No. 2787. Mirch. Jodbpur, Jodhpur State, April 26, 1937, Frult red, tapering, 5 by $11 / 2$ inches; flesh sweet; seeds rather hot.
124407. No. 2803. Mirch. From Hyderabad, Sind State, April 28, 1937. Fruit red, top-shaped, 1 inch long, hot.
124408. No. 2805, Mirch. From Hyderabad, Sind State, April 28, 1937. Fruit red, hot, 5 by $11 / 2$ inches.
124409 to 124424. Citrullus volgaris Schrad. Cucurbitaceae. Watermelon.
124409. No. 2800. Fuda. From Hyderabad, Sind State, April 28, 1937. Fruit globose, pale green, 4 inches across, esteemed as a vegetable.
Nos. 124410 to 124413 . From Udaipur, Mewar State, April 20 and 22, 1937.
124410. No. 2728. Fruit globose, 1 foot in diameter, medium green with broken, thin rib lines; rind varies from 1 to 2 inches in thickness; flesh bright pink, slightly stringy, sweet; seeds in large air pockets.
124411. No. 2725. Fruit subglobose, 10 inches in diameter, mottled dark and pale green without pattern; rind 1 inch thick; flesh pink, fair.
124412. No. 2754. Fruit elongate, 14 tnches long, deep green; rind thick; flesh red, stringy, sweet.
124413. No. 2755. Fruit globose, 12 inches in diameter, medium green with

## 124398 to 124501-Continued.

traces of darker green, fine rib lines; flesh red, good, crisp; seeds in large air pockets.
124414. No. 2759. Tarbuza. From Chitorgarh, Mewar State, April 23, 1937. Fruit globose, 14 inches in diameter, deep green, unmarked ; rind $11 / 2$ inches thick; flesh red, good texture, sweet; seeds in large air pockets.
124415. No. 2760. Tarbuza. From Chitorgarh, Mewar State, April 23, 1937. Fruit globose, 1 foot in diameter, light green with broad blotched stripes of darker green; rind $11 / 2$ inches thick; flesh deep rose, sweet but slightly stringy.
124416. No. 2761. Tarbuza. From Udaipur, Mewar State, April 23, 1937. Fruit globose, 10 inches in diameter, deep green with clouding of paler green; rind $11 / 2$ inches thick; flesh pink, fair texture, somewhat sweet.
Nos. 124417 to 124420. From Ajmer, Rajputana State, April 24, 1937. Tarbuza.
124417. No. 2768. Fruit eiongate, 15 inches long, deep green, unmarked.
124418. No. 2769. Fruit globose, 14 inches in diameter, medium green with narrow ribs and clouding of darker green; rind $11 / 2$ inches thick; flesh deep rose, of good texture, rather sweet.
124419. No. 2774. A local mixture that may have something different.
124420. No. 2778 . Fruit elongate, 18 by 12 inches, deep green with narrow rib lines and clouding of darker green; rind 1 inch thick; flesh solid, of good texture, deep rose, fairly sweet; many seeds undeveloped.
Nos. 124421 and 124422 . From Marwar Junction, Jodhpur State, April 25, 1937. Tarbuza.
124421. No. 2779. Fruit subglobose, 10 inches in diameter, greenish white with traces of narrow rib lines of darker green; flesh sweet, deep rose, fibrous; rind $9 / 4$ of an inch thick.
124422: No. 2780. Fruit subglobose, 6 inches in diameter, greenish white with traces of narrow rib lines of darker green ; flesh of good quality and sweet.
124423. No. 2818. From Hyderabad, Sind State, April 28, 1937. A local mixture.
124424. No: 2721. From Udaipur, Mewar State, April 20, 1937. The young fruits make a highly esteemed stewed vegetable.

## 124398 to 124501 -Continued.

124425. Cordia sp. Boraginaceae.

No. 2786. Gundi. From Jodhpur, Jodhpur State. A small tree or large shrub, growing in hot dry places. The fruits, about the size of cherries, are sweet, viscous, and slightly astringent and are in compound racemes.
124426 to 124451. Cucumis milo L. Cu curbitaceae. Muskmelon. Nos. 124426 and 124427, Kharbuza. From Ujjain, Gwalior State, April 18, 1937.
124426. No. 2692. Fruit fusiform, strongly tapered to the stem and with a huge navel at the blossom end, pale lemon yellow with rib lines of brownish yellow, 8 inches in diameter, and smooth; flesh white, very juicy with low sugar content.
124427. No. 2694. Fruit smooth, elongate, 10 by 6 inches, pale lemon yellow with traces of ribs, fragrant; flesh 2 inches thick, pale salmon, very juicy, no sugar.
Nos. 124428 to 124430 . From Rutlam, Rajputana State, April 18, 1937. Kharbuza.
124428. No. 2712. Fruit bottle-shaped, 8 inches long, with a trace of netting, lemon yellow with green rib lines; flesh salmon, rather insipid.
124429. No. 2713. Fruit flattened, 8 by 4 inches with a conspicuous navel, golden brown, more or less blotched with green, strongly netted, smooth green rib lines; flesh watery, slightly musky, salmon-colored, but no sugar.
124430. No. 2714. Fruit oval, 8 inches long, lemon yellow, faintly ribbed and rib lined green, obscurely netted; flesh salmon, $11 / 2$ inches thick, watery, rather insipid.
Nos. 124431 and 124432, Kharbuza. From Jaora, Rajputana State, April 19, 1937.
124481. No. 2715. Fruit oval, 1 foot long, smooth, yellow; flesh salmon, rather insipid, juicy.
124432. No. 2716. Fruit subglobose, 8 inches in diameter, faintly ribbed and obscurely netted, blotched brown, gold, and green with green rib lines; flesh salmon, firm, rather insipid.
Nos. 124433 to 124439, Kharbuza.
From Udaipur, Mewar State, April 20 to $22,1937$.
124433. No. 2724. A miniature melon, which may be a local variety.
124434. No. 2726. Fruit elongate, 1 foot long, faintly ribbed, obscurely netted,

## 124398 to 124501 -Continued.

pale: yellow with broad brownish rib lines, fragrant; flesh 2 inches thick, pale salmon, juicy, rather insipid.
124435. No. 2727. Fruit 12 by 6 inches, netted, with netted rib lines, yellow, fragrant; flesh white, very firm, 2 inches thick, insipid.
124486. No. 2728. Fruit flattened, 8 by 10 inches, faintly ribbed, obscurely netted, stronger in ribs, clear yellow; flesh white, 2 inches thick, juicy, insipid.
184437. No. 2749. Fruit not seen.
184488. No. 2752. Fruit subglobose, 6 inches in diameter with a knob at the blossom end, heavily netted, yellow, more or less blotched with golden brown; flesh very pale salmon, $11 / 4$ inches thick, sweet.
124439. No. 2753. Fruit elongate, 14 inches long and tapering to the stem, heavily netted, golden brown with smooth yellow rib lines; flesh white, 2 inches thick, juicy, acid, uninteresting. Nos. 124440 and 124441, Kharbuza.
From Chitorgarh, Mewar, April 23, 1937.
124440. No. 2756. Fruit elongate, 10 inches long, obscurely netted, blotched yellow and green with green rib lines; flesh orange, rather firm, insipid.
124441. No. 2758. Fruit elongate, 14 inches. long, heavily netted, yellow; flesh 2 inches thick, salmon, slightly fragrant, rather firm, juicy.
Nos. 124442 to 124448, Kharbuza. From Ajmer, Rajputana State, April 24, 1937.
124442. No. 2762. Fruit subglobose, 6 inches in diameter, nearly smooth with large blossom scar, pinkish yellow with broad dark-green rib lines; flesh green, 11/2 inches thick, sweet.
124443. No. 2763. Fruit subglobose, somewhat flattened, 6 inches in diameter, pinkish yellow with broad darkgreen rib lines; flesh $11 / 2$ inches thick, insipid.
184444. No. 2764. Fruit globose, 6 inches In diameter, pale yellow, coarsely and heavily netted; flesh 2 inches thick, pale salmon, juicy, acid.
124445. No. 2765. Fruit subglobose, 8 inches in diameter, inclined to be flattened, white, obscurely netted, with broad greenish-white smooth rib lines; flesh 2 inches thick, white, with a peculiar sweet-acid taste.
124446. No. 2766. Fruit elongate, 1 foot long, tapering strongly to stem, faintly ribbed, yellow, netted; flesh white, rather acid.

## 124398 to 124501-Continued.

124447. No. 2767. Fruit flattened, 10 by 6 inches, obscurely ribbed, heavily netted, golden brown with green rib lines; flesh 2 inches thick, salmon, insipid.
124448. No. 2777. A local mixture that may contain something different.
Nos. 124449 and 124450. From Hyderabad, Sind State, April 28, 1937.
124449. No. 2810. Kharbuza. A local mixture.
124450. No. 2809. Sarda. One of the "Persian" melon relatives. Some of them are excellent in flavor and have remarkable keeping qualities.
124451. No. 2751. From Udaipur, Mewar State, April 22, 1937.
124452 to 124456. Cucumis sativus L. Cucurbitaceae. Cucumber.
124452. No. 2812. Wangus. A small melonlike cucumber, 4 inches long, with a pronounced blossom scar, smooth, green clouded with darker green. The young fruits are peeled and eaten raw. A locally grown variety which has not been seen before on this expedition.
124453. No. 2735. Khira. Presented by the Superintendent of the State gardens, Udaipur, Mewar State, April 21, 1937. A locally grown green variety.
124454. No. 2811. Kakri. From Hyderabad, Sind State, April 28, 1937. Fruit about 6 by $23 / 4$ inches, smooth green, of good texture.
124455. No. 2750. From Udaipur, Mewar State, April 22, 1937.
124456. No. 2813. Khira. From Hyderabad, Sind State, April 28, 1937. Probably the long, heavily ridged, palegreen form which is eaten raw while the fruit is young.
124457. Cucurbita moschata Duchesne. Cucurbitaceae.

Cushaw.
No. 2729. Kaddu. Presented by the Superintendent of the State gardens, Udaipur, Mewar State, April 21, 1937.
124458. Cyamopsis thetragonoloba (L.) Taub. Fabaceae. Guar.
No. 2711. Gawar. From Ujjain, Gwalior State, April 18, 1937. These beans are commonly cultivated in some parts of India, and there are many varieties.
124459. Daucus carota L. Apiaceae.

Carrot.
No. 2801. Gajar. From Hyderabad, Sind State, April 28, 1837. A locally grown orange carrot.
124460. DoLichos lablab L. Fabaceae.

Hyacinth-bean.

## 124398 to 124501-Continued.

No. 2739. Makhan Som. Presented by the Superintendent of the State gardens, Udaipur, Mewar State, April 21, 1937. A variety with pale pods which are used as string beans.
124461. Gossypidm sp. Malvaceae. Cotton.

No. 2717. Rui. From Udaipur, Mewar State, April 20, 1937. A cotton used in this area for making clothing.
124462. Indigofera linifolia (L. f.)' Retz. Fabaceat. Indigo.
No. 2789. From Gaya, Bihar State, April 9, 1937. A prostrate perennial growing in hot dry places. The simple, linear, silvery-hairy leaves are about 1 inch long, and the small salmon-pink flowers, in copious racemes, are borne in abundance over a long period.
124463 to 124466. Laginnaria leucamitha (Duchesne) Rusby. Cucurbitaceae.

Calabash gourd.
Nos. 124468 and 124464. Presented by the Superintendent of the State gardens, Udaipur, Mewar State, April 21, 1937.
124463. No. 2736. Alkaddu. A variety 3 feet long, planted in the rainy season.
124404. No. 2743. Gol Laukd. A round variety.
124465. No. 2775 . Lauki. From Ajmer, Rajputana State, April 24, 1937.
124466. No. 2802. Adu. From Hyderabad, Sind State, April 28, 1937. A long edible variety.
124467 to 124472. LuFfa spp. Cucurbitaceae.
124467 to 124470. Luffa acutangula (L.) Roxb.

Singkwa towelgourd. Turai.
124467. No. $2705 . \quad$ From Ujjain, Gwalior State, April 18, 1937.
124468. No. 2741. Presented by the Superintendent of the State gardens, Udaipur, Mewar State, April 21, 1937. Used as a vegetable.
124469. No. 2773. From Ajmer, Rajputana State, April 24, 1937.
124470. No. 2806. From Hyderabad, Sind State, April 28, 1937. Esteemed as a vegetable when young.
124471 and 124472 . Luffa cylindrica (L.) Roemer. Suakwa towelgourd.
124471. No. 2706. Gilti. From Ujjain, Gwalior State, April 18, 1937.
124478. No. 2740. Ghiya. Presented by the Superintendent of the State gardens, Udaipur, Mewar State, April 21, 1937. Used as a vegetable while young.

## 124398 to 124501-Continued.

124478 and 124474. LYcopmasicon mscolinnтим Mill. Solanaceae. Tomato.
124478. No. 2785. From Jodhpur, Jodhpur State, April 26, 1937. Fruit flattened and elongate (many freaks), about $21 / 2$ inches long, red. Possibly disease resistant.
124474. No. 2815. From Hyderabad, Sind State, April 28, 1937. A long red fruit; said to be an acclimatized variety.
124475. Medicago sativa L. Fabaceae.

Alfalfa.
No. 2804. From Hyderabad, Sind State, April 28, 1937. Used locally as fodder.
124476 and 124477. Momordica charantia L. Cucurbitaceae. Balsam-pear.
124476. No. 2742. Karela. Presented by the Superintendent of the State gardens, Udaipur, Mewar State, April 21, 1837.
124477. No. 2772. Karela. From Ajmer, Rajputana State, April 24, 1937.
124478 to 124480 . Pisum sativicu L. Fabaceae. Pea.
124478. No. 2816. Matar. From Hyderabad, Sind State, Apri 28, 1937.
124479. No. 2817. Matar. From Hyderabad, Sind State, April 28, 1987.
124480, No. 2718. Matar. From Udaipur, Mewar State, April 20, 1937, but said to have come from Nagpur, Central Provinces, and to be free from mildew there.
124481. Raphanus sativus L. Brassicaceae. Radish.
No. 2788. Muli. From Jodhpur, Jodhpur State, April 26, 1937. A long white variety; possibly a hot-weather radish for the United States.
124482 to 124490. Solandm spp. Solanaceae.
124482 to 124489. Solanum mblongena L.
Eggplant.
Nos. 124482 and 124483, Bengan. From Ujjain, Gwalior State, April 18, 1937.
124482. No. 2709. A long black fruit.
124483. No. 2710. A round black fruit.

Nos. 124484 to 124487, Bengan.
Presented by the Superintendent of the State gardens, Udaipur, Mewar State, April 21, 1937.
124484. No. 2731. A mixture of local varieties.
124485. No. 2732. A locally grown, long purple variety.
124486. No. 2733. A native, long white variety.

## 124398 to 124501-Continued.

124487. No. 2734. A native, round white variety.
124488. No. 2746. From Udaipur, Mewar State, April 22, 1937. A small, green local variety.
124489. No. 2771. From Ajmer, Rajputana State, April 24, 1987. A small round fruit, 3 inches in diameter.
124490. SOLANUM sp.

No. 2626. From Gaya, Bihar State, April 9, 1937. A shrubby perennial 7 feet high with white flowers and or-ange-yellow fruits $1 / 2$ inch in diameter.
124491. Sfinacia oleracea L. Chenopodiaceac.

Common spinach.
No. 2747. Palag. From Uđ̃aipur, Mewar State, Aprn 22, 1937. A winter potherb.
124492. and 124493. Trichosanthms angUins L. Cucurbitaceae. Snakegourd.
Ohachinda. Presented by the Muperintendent of the State gardens, Udaipur, Mewar State, April 21, 1937.
184492. No. 2730. Green or white, a small race.
124493, No. 2737. Fruits 3 feet long, a good vegetable.
124494 to 124498. Trimicum afetivum L.
Poaceae. Common wheat.
Getuwn.
Nos. 124494 and 124495. From the
Govermment Farm at Udaipur, Mewar
State, April 20, 1937.
184494. No. 2719. Govt. No. 13. Origin unknown.
124495; No. 2720. Pasa 55. An imported strain from Pusa, said to be rust free and to tolerate frost at fruiting time. Nos. 124496 to 124498 . From Gaya, Bihar State, April 9, 1937. Hard wheat
conlected near the sonthern Imit of
wheat production in India.
124s96. No. 2627. Heads pale, bearded; makes good pastry flour ; a sbort-feamon hard wheat.
124497. No. 2628. Heads reddish, beardless.
124498. No. 2629 . Heads reddish, bearded.
124499. Vicia faba L. Fabaceae.

Broadbean.
No. 2708. Ramphal. From Ujjain, Gwalior State, April 18, 1937.
124500 and 124501. Zea mays L. Poaceae. Corn.
Makki. From Udaipur, Mewar State, April 22, 1937. Said to mature in 75 days. 124500. No. 2744.
184501. No. 2745.

124502 and 124503 . Gessinka spp. Gesneriaceae.
From Brazil. Seeds presented by Mrs. V. E. Schilling, Nova Friburgo, Rio de Jameiro, through Dr. Doris M. Cochran, United States National Museum, Washington, D. C. Received June. 18, 1937.
124s02. Gesnimia $\$ \mathrm{sp}$.
A bulbous plant with creamy-fleshspotted, narrow-pointed leaves. The solitary tubular flowers are produced in the leaf axils.
124503. Gesneria sp.

A bulbous plant with velvety green leaves and showy coral-scarlet tubunar flowers produced in a terminal umbel.
124504. Dendrocalamus sterctus (Hoxb.) Nees. Poaceae.
From Florida. Seeds presented by Julian Nally, Gotha. Recelved June 23, 1937.
A giant, tropical clump bamboo, native to India, under favorable conditions growing to a height of 60 feet or more. The culms are thick walled and sometimes are practically solid. The plant is injured at $28^{\circ} \mathrm{F}$. and is killed at $26^{\circ}$. The entre clump, growing at Gotha, Fla., from which these seeds were collected, seeded heavily from late winter to early summer, producing no leaves, and all the culms died.

For previous introduction see 77061.
124505 to 124510 . Medicaio sativa $L$. Fabaceae.

Alfalfa.
From Peru. Seeds presented by Pedro Recavarren C., Dirección de Agricultura, Ganaderta, y Colonizacion, Ministerio de Fomento, Lima. Received June 24, 1937.

| 124505, A. | 124508, D. |
| :--- | :--- |
| 124506. B. | 124509. E. |
| 124507. C. | 124510. F. |

124511. ALeurites trisperma Blanco. Euphorbiaceae. Banucalag.
From the Philippine Islands. Seeds presented by Jose S. Camus, Director of Plant Industry and Commerce, Manila. Received June 19, 1937.
This Philippine relative of the tang-oil tree (Aleurites fordii) is a tree 30 to 50 feet high, with heart-shaped leaves and rounded, threeangled fruits about 2 inches in diameter. It is a tropical tree and withstands only a few degrees of frost. The oll obtained from the seeds resembles tung oil, but is somewhat slower in drying.

For previous introduction see 112679.
124512 to 124522 . Gos@ypIUM spp. Malvaceae. Cotton.
From Brazil. Seeds presented by Prof. J. B. Griffing, Escola Superior de Agricultura e

## 124512 to 124522-Continued.

Veterinaria, Viçosa, Minas Geraes. Received June 1, 1937.
124512. African Punctatum, unselfed.
124513. South African, 37-38, selected strain selfed for several years.
124514. South African, 37-80. A selected strain, selfed for several generations.
124515. Cambodian cotton, a selfed strain.
124516. Garolina, No. 1.
124517. Garolina, No. 2.
124518. Carolina, No. 3.
124519. Express, No. 1.
124520. Express, No. 2.
124521. Express, No. 3.
124522. Meade. A strain selfed for several generations.

## 124523 to 124611.

From India. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received June 12, 1937.
124523. AbDlmoschus msculentus (L.) Moench. Malvaceae. Okra. No. 2865. From Godaneri, Madras Presidency, April 30, 1937.
124524. ALLIUM CEPA L. Liliaceae. Onion. No. 2828. Basar. From Hyderabad, Sind State, April 30, 1937. A red globe onion which stands extreme heat.
124525. Allium cepa L. Liliaceae. Onion. No. 2839. From Bangalore, Mysore State, April 30, 1937. A locally grown onion.
124526. Amaranthus sp. Amaranthaceae. No. 2867. From Godaneri, Madras Presidency, April 30, 1937. A potherb.
124527. Benincasa hispida (Thunb.) Cogn. Cucurbitaceae.

Waxgourd,
No. 2847. From Anakapalle, Madras Presidency, April 20, 1937.
124528. Beta vulgaris L. Chenopodiaceae. Common beet.
No. 2822. Ohakunda. From Hyderabad, Sind State, April 20, 1937. A round beet up to 7 inches in diameter, of good quality, not stringy; grown in extreme heat.
124529 to 124532. Brassica spp. Brassicaceae.
From Hyderabad, Sind State, April 30, 1937.

124529 and 124530. Brassica oleracea var. botrytis L. Caullflower.
124529. No. 2825. Phulgoba. An early native variety.
124530. No. 2827. Phulgoba. A late native variety.

## 124523 to 124611-Continued.

194581 and 124582. Brassica rapa L. Turnip.
124581. No. 2853. Goguru. A purplered globe turnip.
124532. No. 2826. Shelgum. A fiat white winter turnip.
124583. Bursera sp. Balsameaceae.

No. 2881. From Lahore, Punjab State, May 4, 1937. A small ornamental tree.
124534. Canavalia mesiformis (L.) DC. Flabaceac. Jackbean.
No. 2895. From Peshawar, North West Frontier Province. Bush form.
124585. Capraris sp. Capparidaceae.

No. 2873. From Hyderabad, Sind State, April 20, 1937. A common shrub or small tree on the north Indian plains, blooming in spring with yellow to orange to pink-red blooms. The tree is leafless with green twigs, dense, well-formed, and beautiful when covered with bloom.
124586 to 124540. CAPSICUM ANNUUM L. Solanaceae. Common redpepper.
124536. No. 2846. From Anakapalle, Madras Presidency, April 30, 1937. A mixture of pointed fruits, red and yellow, 2 to 3 inches long.
12\&537. No. 2856. From Coimbatore, Madras Presidency, April 30, 1937. A small red fruit about 1 inch long, sharp.
124538. No. 2861. From Godaneri, Madras Presidency, April 30, 1937.
124539. No. 2901. From Peshawar, North West Frontier Province, May 8, 1937. Fruit red, round, 1 inch in diameter, mild.
124540. No. 2902. From Peshawar, North West Frontier Province. Fruit red, pointed, $11 / 2$ inches long, pungent.
124541. Carica papaya L. Papayaceae.

Papaya.
No. 2868. From Ujjain, Gwalior State, April 18, 1937. Fruit about 1 foot long, thick walled, small seed cavity, few seeds, good flavor. One of the best found in India.
124542. Cassia didymobotrya Fres. Caesalpiniaceae.
No. 2886. From Lahore, Punjab State, May 4, 1937. A large dense shrub or small tree with pinnate leaves 6 to 16 inches long. It is covered with large erect racemes of yellow flowers over a long blooming period. Native to tropical Africa.
124543 to 124547. Citrullus vulaaris Schrad. Cucurbitaceae. Watermelon,
124543. No. 2799. Kalinga. From Hyderabad, Sind State, April 28, 1937. Fruit globose, 1 foot in diameter, green

## 124523 to 124611-Continued.

with narrow blotched lines of darker green; rind $1 / 2$ to $8 / 4$ of an inch thick; flesh rose, inclined to purplish, watery, of good texture, but no sugar.
124544. No. 2870. From Karachi, Sind State, April 30, 1937. Fruit subglobose, 1 foot in diameter, pale green with stripes of darker green; flesh rose, tinged purple, insipid, very seedy.
124545. No. 2871. From Karachi, Sind State, April 30, 1937. Fruit subglobose, 1 foot in diameter, pale green, unmarked; rind $1 / 2$ inch thick; flesh rose, insipid, very seedy.
124546. No. 2872. From Karachi, Sind State, April 20, 1937. Fruit globose, 1 foot in diameter, pale green, finely reticulated with darker green; flesh rose, tinged purple, watery, insipid, very seedy.
124547. Tarbuza. From Lahore, Punjab State, May 1, 1987. Fruit globose, 20 inches in diameter, deep green with faint cloudings of lighter green; rind 1 inch thick; flesh deep rose, fair quality, rather sweet, relatively few seeds.
124548 to 124554. Cucumis milo L. Cucurbitaceae.

Muskmelon.
124548. No. 2781. Kharbuza. From Jodhpur, Jodhpur State, April 26, 1937. Fruit oblong, 14 inches long, smooth, golden brown; flesh 2 inches thick, pale salmon, insipid, though (as is often the case) the melon is fragrant.
124549. No. 2782. Kharbuza. From Jodhpur, Jodhpur State, April 26, 1937. Fruit elongate, 15 inches long, tapered to the stem end, coarsely and heavily netted, golden brown blotched with dark green; flesh 2 inches thick, pale salmon, mealy, insipid.
124550. No. 2783. Kharbuza. From Jodhpur, Jodhpur State, April 26, 1937. Fruit football-shaped, 10 inches long, ribbed, mostly smooth except for strong netting on the rib, golden brown, clouded with greenish black; flesh 2 inches thick, pale salmon, insipid.
124551. No. 2784. Kharbuza. From Jodhpur, Jodhpur State, April 26, 1937. Fruit flattened 1 by 6 inches, smooth with scattered strong netlines, gold, blotched more or less with deeper gold; flesh 2 inches thick, salmon, insipid.
124552. No. 2795. Kharbuza. From Hyderabad, Sind State, April 28, 1937. Fruit more or less flattened, 8 by 4 to 6 inches, sometimes with traces of ribs, smooth, usually golden brown with a trace of red shading to deep mahogany; flesh rather thin, yellow green, fragrant, sweet.

## 124523 to 124611-Continued.

124553. No. 2869. From Jungshalis, Sind State, April 30, 1937. Fruit smooth, yellow, elongate, 10 by 8 inches, exceedingly fragrant; flesh salmon, rather flavorless.
124554. No. 2876. From Amritsar, PunJab State, May 4, 1937. Fruit flattened, 6 by 3 or 4 inches, smooth with large blossom scar, lemon yellow often attractively flecked with green, fragrant ; flesh thin, white, insipid.
124555. Cucumis sativus L. Cucurbitaceae. Cucumber.
No. 2845. From Anakapalle, Madras Presidency, April 30, 1937.
124556. Cucumis sp.' Cucurbitaceae.

No. 2849. Velerika. From Colmbatore, Madras Presidency, April 30, 1937.
184557. Cucumis sp. Cucurbitaceae.

No. 2854. From Hyderabad, Sind State, April 30, 1937. A very small variety.
124558 to 124560. Cucurbita moschata Duchesne. Cucurbitaceae. Cushaw.
124558. No. 2798. Kadu. From Hyderabad, Sind State, April 28, 1937. Fruit football-shaped, 14 inches long, deeply ribbed, pink brown, smooth. Used like summer squash when green and for pies when ripe.
124559. No. 2835. Kadu. From Hyderabad, Sind State, April 30, 1937. A mixture of local varieties, all good keepers and good vegetables when green.
124560. No. 2859. From Godaneri, Madras Presidency, April 30, 1937.
124561. Cupania sp. Sapindaceae.

No. 2888. From Lahore, Punjab, May 4, 1837. A small ornamental evergreen tree.
124562. CyAMOPSIS tetragonoloba (L.) Taub. Fabaceae. Guar.
No. 2829. From Hyderabad, Sind State, April 30, 1937.

For previous introduction and description see 124458.
124568. Daucus carota L. Apiaceae.

Carrot.
No. 2814. From Hyderabad, Sind State, April 28, 1937.
184564. Delonix rbaia (Boj.) Raf. Caesalpiniaceae. Royal poinciana.
No. 2821. From Karachi, Sind State, April 30, 1937. There are many forms of this tree, varying in flower color and tree habit. This form is dwarf, blooming at the height of 5 feet. The tree from which these fruits were taken had a trunk 16 inches in diameter, a spreading top 15 feet high, and lovely orange-maroon flowers.

For previous introduction see 114938.

## 124523 to 124611 -Continued.

124565. Diospyros montana Roxb. Diospyraceac. : Mountain persimmon.
No. 2878. From Lahore, Punjab, May
4, 1937. An attractive small tree.
For previous introduction and descripthon see 124229.
124566. Diospyros peregrina (Gaertn.) Guerke. Diospyraceae. Persimmon. No. 2885. From Lahore, Punjab, May 4, 1937. A handsome, medium-sized tree whose fruits are used medicinally and for tanning. The seeds yield an oil.

For previous introduction see 98844.
124567 and 124568. DOLICHOS LABLAB $L$. Fabaceac.

Hyacinth-bean.
184567. No. 2850. F'rom Coimbatore, Madras Presidency, April 30, 1937.
124568. No. 2851. From Dumugudam, Madras Presidency, said to be grown by the Kayas, an aboriginal tribe of the Godaneri District.
124569. Eleúsine coracana (L.) Gaertn. Poacere. African millet.
No. 2857. From Coimbatore, Madre ${ }^{\circ}$ Presidency, April 30, 1937.
124570. Firmiana colorata (Roxb.) R. Br. Sterculiaceae.
No. 2877. From Lahore, Punjab, May 4, 1937. An ornamental tree with handsome brilliant-orange flowers whtch appear before the leaves.

For previous introduction see 59678.
124571 to 124575. Lagenaria leucantia (Duchesne) Rusby. Cucurbitaceae.

Calabash gourd.
124571. No. 2820. From Hyderabad, Sind State, April 29, 1937.
124572. No. 2841. From Anakapalle, Madras Presidency, April 30, 1937.
124573. No. 2855. Said to be an Assam variety with fruits about 3 feet long.
124574. No. 2864. From Godaneri, Madras Presidency, April 30, 1937.
124575. No. 2896. From Peshawar, North West Frontier Province, May 5, 1937. Fruit bitter and of interest only to gourd growers.
124576 to 124579 LUFFA ACUTANGULA (L.) Roxb. Cucurbitaceae.

Singkwa towelgourd.
124576. No. 2837. From Udaipur, Mewar State, April 26, 1937, but said to have come from the nearby village of Salumbar; fruits over 5 feet long.
124577. No. 2843. From Anakapalle, Madras Presidency, April 30, 1937.
124578. No. 2860. From Godaneri, Madras Presidency, April 30, 1937.

## 124523 to 124611 -Continued.

124579. No. 2891. Presented by the Superintendent of the State gardens, Salumbar, Mewar State, May 4, 1937. Fruits said to be over 5 feet long.
124580. LuFfa cylindrica (L.) Roemer. Cucurbitaceae. Suakwa towelgourd.
No. 2803. From Godaneri, Madras Presidency, April 30, 1937. Said to be a wild edfble variety.

124581 and 124582. Lycopersicon msculentum Mill. Solanaceae. Tomato.
From Hyderabad, Sind State, April 28, 1937.
124581. No. 2796. Fruit red, subglobose, flattened or elongate, $11 / 2$ inches long. Grown in extreme beat.
124582. No. 2797. Fruit red, flattened, 4 inches acroess, mach ribbed. Grown in extreme heat.
124583. MTLLETTIL ovalitolia (Wight and Arn.) Kurz. F'abaceae.
No. 2884. From Lahore, Punjab, May 4, 1937. A medtum-sized tree with oddpinnate leaves from 4 to 18 inches long and slender axillary racemes of small blue fragrant flowers. Native to Burma.

For previous introduction see 123224.
124584 to 124587. Momordica charantia $L$. Cucurbitaceae. Balsam-pear.
124584. No. 2831. Karela. From Hyderabad, Sind State, April 30, 1937. A long variety.
124585. No. 2832. Karela. From Hyderabad, SInd State, April 30, 1937. A small round variety.
124586. No. 2844. From Anakapalle, Madras Presidency, April 30, 1937.
124587. No. 2890. Presented by the Superintendent of the State gardens, Salumbar, Mewar State, May 5, 1937. Fruits said to be 18 inches long or about double the length of any other known Indian race.
124588. NICOTIANA TABACUM L. Solanaceae. Common tobacco.
No. 2842. From Anakapalle, Madras Presidency, April 30, 1937.
124589. Obyza SATIVA L. Poaceae. Rice.

No. 2900. From Peshawar, North West Frontier Province, May 8, 1937.
124590 to 124593. Phastiolus spp. Fabaceae.
124590 to 124592. Phasholus lunatus L. Lima bean.
124590. No. 2897. From Peshawar, North West Frontier Province, May 5, 1937.
124591. No. 2824. From Hyderabad, Sind State, April 30, 1937.

## 124523 to 124611 - Continued.

124508. No. 2898. From Peshawar, North West Frontier Province, May 5, 1937.
124509. Phaskolug vulgabib $L$.

Compan bean.
No. 2892. From Peshawar, North West Frontier Province, May 5, 1937. 12́́f94. Phoenix bupicola T. Anders. Phoenicaceae. Cliff date palm.
No. 2882. From Lahore, Punjab State, May 4, 1937. A Himalayan palm with a solitary, slender, naked stem 15 to 20 feet high, bright-green leaves 10 feet long, and shining yellow oblong fruits.

For previous introduction see 116530.
124595. Pisum sativum L. Fabaceae.

Pea.
No. 2894. From Peshawar, North West Frontier Province, May 5, 1937.
184606. Putranjiva roxburghil Wall. Euphorbiaceae. Indian amuletplant.
No. 2883. From Lahore, Punjab State, May 4, 1937. A spreading evergreen tree of attractive form, with small whitish bitter fruits the size of a cherry. From the seeds is obtained an oil used by the natives of India for burning. The polished seeds are strung and used as amulets. The hard gray wood is used for making tools.

For previous introduction see 116578.
124597. Raphands sativus L. Brassicaceae.

Radish.
No. 2823. Muli. From Hyderabad, Sind State, April 30, 1937. A long white hotweather radish.

124598 to 124601. Solandm melongena L. Solanaceae.

Eggplant.
124598. No. 2830. Bengan or Vangan. From Hyderabad, Sind Etate, April 80, 1937. A long purpie variety.
124599. No. 2836. Vangan. From Hyderabad, Sind State, April 30, 1937. A round purple fruit.
124600. No. 2848. From Mysore State, April 30, 1937.
124601. No. 2862. From Godaneri, Madras Presidency, April 30, 1937.
124602. Sterculia sp. Sterculiaceae.

No. 2903. From Peshawar, North West Frontier Province, May 8, 1937. An ornamental tree with narrow, three-lobed leaves 4 inches long.
124603. Trichosanthims anguina L. Cucurbitaceae.

Snakegourd.
No. 2840. From Anakapalle, Madras Presidency, April 30, 1937.

124523 to 124611-Continued.
184604. Tbigonmlla Fomenm-geamcum L. Fabaceae. ( Fompreek.
No. 2838. Meth. From Hyderabad, Sind State, April 30, 1937. A popular winter potherb; seeds also used for flavoring. 124605. Toona ciliata Roemer. Meliaceae. Toon tree.
No. 2880. Toon. From Lahore, Punjab, May 4, 1937. A large tropical tree with nearly evergreen foliage and white, honeyscented flowers. The fine red wood, which is used for furniture, carving, and for making cigar boxes, is very durable and is not attacked by termites. Native to India.

For previous introduction see 116795 .
284606 to 124609. Vigna spp. Fabaceac.
124606. VIGNA cylindrica (Stickm.). Skeels. Catjang.
No. 2853. From Coimbatore, Madras Presidency, April 30, 1937.
124607 to 124609. Vigna sinemsis (Torner) Savi. Cowpea.
124607. No. 2852. From Madras, April 30, 1937.
124608. No. 2834. Goar. From Hyderabad, Sind State, April 30, 1937. Eaten dry.
124609. No. 2893. From Peshawar, North West Frontier Province, May 5, 1837.
12\&610. Xylosma longironia Clos. Flacourtiaceae.
No. 2889. From Lahore, Punjab State, May 4, 1937. An evergreen shrub with rather long, slender branches and linear to oblong-lanceolate leathery leaves 4 to $\theta$ inches long. Native to the Himalayan region at altitudes up to $\mathbf{5 , 0 0 0}$ feet.
124611. (Undetermined.)

No. 2858. 'From Udaipur, Mewar State, April 22, 1937. An evergreen shrub or mall tree, growing in the desert and bearing an abundance of small white fruits which are eaten by birds. An ornamental for use in warm desert sections.
124612 to 124614. Fortunella spp. Rutaceae.
Plants growing at the United States Plant Introduction Garden, Glenn Dale, Md.; originally grown by the former Office of Crop Physiology and Breeding Investigations. Numbered in June 1937.
124612. Fortunella Crassifolia Swingle.

Meiwa kumquat.
C. P. B. No. 7946. An evergreen shrub or dwarf tree with very thick leaves and numerous yellowish fruits over an inch in diameter, broadly oval or ovate in outline. Probably native to China.

124612 to 124614 -Continued.
124613. Fortunimla
JAPONICA
(Thunb.)
Kumquat. Swingle.
C. P. B. No. 7335.

For previous introduction see 30429.
124614. Fortunella margarita (Lour.) Swingle. Oval kumquat.
C. P. B. 11315.
124615. Passiflora purpusit Killip. Passifloraceae.

Passifiora.
From Mexico. Plants purchased from Dr. C. A. Purpus, Zacuapam, Huatusco, Veracruz. Received May 29, 1937.
A passiflora with ovate, cordate leaves about 6 inches long and flowers about 2 inches wide. Native to Veracruz, Mexico.

## 124616. Saccharum officinarum L.

 Poaceae.Sugarcane.
From the Union of South Africa. Cuttings presented by the Natal Herbarium, Durban. Received June 29, 1937.
124617. CUCUMIS melo L. Cucurbitaceae.

Muskmelon.
From India. Seeds collected by Walter Koelz, Bureau of Plant Industry, United States Department of Agriculture. Received June 12, 1937.
No. 2874. Kharbuza. From Lahore, PunJab, May 1, 1937. Fruit flattened, 6 by 4 inches, yellow with deep-green rib lines, coarsely and strongly netted, fragrant; flesh salmon, thick, flavorless.
124618. Asparagus officinalis L. Convallariaceae. Garden asparagu's.
From Rumania. Seeds presented by Dr. Al. Borza, Jardin Botanique de l'Universite, Cluj. Received June 30, 1837.
From hay meadows.
124619 to 124621.
From. French Equatorial Africa. Seeds presented by Miss Margaret Haines, Bangassou, Oubangui-Chari. Received June 21, 1937.

## 124619 to 124621 -Continued.

124619. Annona senmgalensis Pers. Annonaceae.
A shrub or small tree, sometimes 20 feet high, native to both eastern and western tropical Africa. The oval, blue-green, leathery leaves are up to 5 inches long, and the orange-yellow, edible fruits, over 1 inch in diameter, contain an aromatic darkred pulp which suggests that of the cherimoya of tropical America.

For previous introduction see 55554.
124620. Brazzeia sp. Scytopetalaceae.

The members of this genus are tropical African trees or shrubs with alternate, gray-green, entire leaves and rather large flowers borne on the trunk in corymblike clusters.
124621. Solandm sp. Solanaceae.

124622 to 124624. Gossypium. Malvaceae. Cotton.
From Cyprus. Seeds presented by the Director of Agriculture, Nicosia, at the request of the Empire Cotton Growing Corporation, London, England. Received June 30, 1937.
124622. Lapithos.
124623. Mesowhite.
124624. Titsiros.
124625. Cercidium praecox (Ruiz and Pav.) Harms. Caesalpiniaceae.
From Venezuela. Seeds collected by W. A. Archer, Bureau of Plant Industry, United States Department of Agriculture. Received May 3, 1935. Numbered in June 1937.

No. 3139. Yabo. From near Barquisemeto, March 5, 1935. A spiny shrub or small tree about 25 feet high, with pale-green bark, ascending branches, bipinnate leaves, and small yellow flowers. Found growing in dry semidesert lands among cacti and spiny shrubs. Native to northwestern South America.

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[^0]:    ${ }^{2}$ It should be understood that the names of varieties of fruits, vegetables, cereals, and other plants used in this inventory are those under which the mateqial was received when introduced by the Division of Plant Exploration and Introduction, and further, that the printing of such names here does not constitute their official publication and adoption in this country. As the different varieties are studied, their entrance into the American trade forecast, and the use of varietal names for them in American literature becomes necespary, the foreign varietal designations appearing in this inventory will be subject to change with a view to bringing the forms of the names into harmony with recognized horticultural nomenclature.
    It is a well known fact that botanical descriptions, both technical and economic, seldom mention the seeds at all and rarely describe them in such a way as to make possible identification from the seeds alone. Many of the unusual plants listed in these inventories are appearing in this country for the first time, and there are no seed samples or herbarium specimens with ripe seeds with which the new arrivals may be compared. The only identification possible is to see that the sample received resembles seeds of other species of the same genus or of related genera. The responsibility for the identification, therefore, must: necassarily often rest with the person sending the material. If" there is any question. regarding the correctness of the identification of any plant received from this Division. herbarium specimens of leaves and flowers should be sent in so that definite identification can be made:

