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U. S. Office of Foreign Seed and Plant Introduction,  
Bureau of Plant Industry,  
U. S. Department of Agriculture,  
Washington, D. C.

Proof Sheets of Descriptive Labels  
which will be attached to Foreign Plant Introductions  
distributed during 1913-1914.

The following pages are made up from the electrotypes used in the preparation of the labels distributed with all plants from the Office of Foreign Seed and Plant Introduction.

The information on the labels consists of the Plant Introduction (S.P.I.) number, under which the plants are known at all times, of the scientific name and a common name, when one has been adopted for this country, and a brief description of the plant with its uses and where possible at this time a suggestion of the general region to which the plant is likely to be adapted. The labels are made of celluloid, covered on both sides with fine linen, and if kept from contact with the soil they will remain in good condition for several years. If buried in the soil they become brittle and illegible.

In some instances but few plants of the number given on the label may be available for distribution, but in such cases plants of the same species and variety under another introduction number may be substituted.

On a single sheet at the end of this distribution catalogue will be found a complete list of all plants listed herein, together with indications as to the portion of the country the plants are suited for. All plants not followed by H or T are to be considered hardy throughout the United States, H stands for half hardy plants, hardy as far north as Washington, D. C., and the Ohio River, T for tender plants which stand little or no frost. The letter S stands for seeds.

Requests for material for trial should be made by checking the names of the plants desired in this single sheet list at the end, signing *the name and address in full*, and returning the sheet to this Office. If the applicant is not already on our list of correspondents, full information should be supplied as to the amount of land at his disposal, whether owned or leased, and his experience in caring for and experimenting with plants.

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12580. **ABELMOSCHUS MANIHOT.** From Mr. Frank N. Meyer, Peking. A perennial with very large bright yellow flowers.

18475. **ABROMA AUGUSTA.** Anabo. From Mr. W. L. Lyon, horticulturist, Bureau of Agriculture, Manila, P. I. A perennial shrub producing the Anabo bast fiber. In India yields three crops a year and is said to be more easily cultivated than jute or Indian hemp. Used chiefly for cordage by the natives.

33840. **ACACIA MELAN-OXYLON.** Blackwood. From Jose D. Husbands, Limavida, Chile. A very important, large, Australian timber tree, the mature wood of which is hard, very dark, close-grained and capable of taking a fine polish. Excellent for furniture, picture frames, tool handles, fences, bridges, etc., and nearly the equal of American walnut. Considered by some to be the most valuable of all Australian timber trees.

**ACANTHOSIOYOS HORRIDA.** "Narras," from West Africa.

Thorny plant remarkable for its sandbinding character. The Hottentots are inordinately fond of the sweetish flesh of the squash-like fruits, which contain a very acrid, irritating principle. The nutritious seeds are palatable and have been used by Europeans as a substitute for almonds.

**ALEURITES FORDII.**

Tung Oil or Wood Oil tree of the Yangtse Valley, China. The large seeds borne in fruits the size of small apples yield 28 per cent. of one of the best drying oils known. Large importations made into America. Deciduous tree with white flowers. Stands frost. Seven year old tree near Tallahassee, Fla., bore one bushel of fruit. Seed not edible.

**AMERIMNON SISSOO.** Deciduous timber tree, 60 to 80 feet high, native of the plains of India and up to 5,000 feet elevation in Afganistan, Beloochistan and the Central Himalayas. Grows well along sandy river banks, but resists drought moderately, endures great heat and occasional sharp frost. Timber valuable, being very elastic, seasons well, does not warp or split, is easily worked and takes a fine polish.

### AMYGDALUS DAVIDIANA.

From Frank Meyer, Tientsin, China. Important wild dryland peach used commonly as stock for stone fruits in China. Resists severe droughts and is not affected by quite alkaline soils. Strong vigorous grower. As hardy as the Chihli peach in Central Iowa, and especially early stock in California.

### AMYGDALUS PERSICA.

Bolivian Clingstone Peach, budded on common peach. The parent tree was raised from seeds collected by Edward Ehrhorn in Bolivia, from trees grown by the Franciscan padres. The fruits are of medium size and fine quality.

### AMYGDALUS PERSICA.

Bolivian Freestone Peach, budded on common peach. The parent tree was raised from seeds collected by Edward Ehrhorn, in Bolivia, from trees grown by the Franciscan padres. The fruits are of medium size and fine quality.

### AMYGDALUS PERSICA.

Sutter Creek Peach, budded on common peach. From W. Downs, Sutter Creek, California, through W. A. Taylor. This peach is quite resistant to peach curly leaf and has fruit of good size and quality.

32372. AMYGDALUS PERSICA. Mexican Peach. From the San Antonio Field Station, San Antonio, Texas. A vigorous growing freestone variety, resembling the Honey peach of southern China, but more prolific, more uniform in size, and with a more uniform ripening period, about the 20th of June at San Antonio, or about one week later than the Honey peach. Garden selection from peaches imported from Mexico.

32373. AMYGDALUS PERSICA. Mexican Peach. From the San Antonio Field Station, San Antonio, Texas. A freestone variety, in shape and flavor resembling the Honey peach of southern China, but not ripening until about August 20th at San Antonio, nearly two months later than the Honey variety. Considered valuable because of its late ripening period. Garden selection from peaches imported from Mexico.



**32374. AMYGDALUS PER-SICA.** Mexican Peach. From the San Antonio Field Station, San Antonio, Texas. A large-fruited, yellow, clingstone peach, with a pleasant, sub-acid flavor, and without doubt of Spanish origin. It ripens at San Antonio about September 8, and is a good shipper. Garden selection from peaches imported from Mexico.

**32375. AMYGDALUS PER-SICA.** Mexican Peach. From the San Antonio Field Station, San Antonio, Texas. A large, light colored, clingstone peach of good quality, which ripens about August 23, at San Antonio. Garden selection from peaches imported from Mexico.

**32377. AMYGDALUS PER-SICA.** Mexican Peach. From the San Antonio Field Station, San Antonio, Texas. A large, greenish colored, clingstone peach, which ripens about September 7 at San Antonio, and is a good peach for canning. Garden selection from peaches imported from Mexico.

**32378. AMYGDALUS PER-SICA.** Mexican Peach. From the San Antonio Field Station, San Antonio, Texas. A medium to yellow, clingstone peach, probably of purely Spanish origin. The flavor is slightly sub-acid and quality medium to good. Ripens at San Antonio about September 15. Garden selection from peaches imported from Mexico.

**32379. AMYGDALUS PER-SICA.** Mexican Peach. From the San Antonio Field Station, San Antonio, Texas. This peach is without doubt of southern Chinese origin, as it resembles the Honey variety in all respects, except that it ripens about a month later. Garden selection from peaches imported from Mexico.

**32380. AMYGDALUS PER-SICA.** Mexican Peach. From the San Antonio Field Station, San Antonio, Texas. A freestone peach of good flavor, resembling the southern Chinese type. It appears to be a cross between the Spanish and southern Chinese types. Ripens at San Antonio about August 10. Garden selection from peaches imported from Mexico.

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33219. **AMYGDALUS PERSICA**. Spanish Peach. From Pedro Giraud, Granada, Spain. "Vainqueur." Introduced chiefly for trial as one of the Spanish peaches most frequently propagated. No information is available concerning its quality, except that most Spanish peaches are of good quality.

18235. **AMYGDALUS PERSICA NECTARINA**. Nectarine. From Lieut. W. L. Maxwell, Quetta, British India. "Quetta." Coming from an altitude of 6,000 feet where temperatures range from 100° F. to below zero. Fruit of good size and quality.

### **ANNONA CHERIMOLA.** Chirimoya.

Medium-sized shrub or dwarf tree, with evergreen foliage and small yellowish flowers. Fruits roundish, conical or heart-shaped, 3 to 6 inches in diameter with pleasantly flavored, sweetish pulp of the consistency of ice-cream with black seeds irregularly imbedded in it.

32302. **ANNONA MURICATA**. Sour sop from Camaguey, Cuba. Presented by Mr. Roberto L. Luaces. A small tree with heart-shaped fruit 6 to 9 inches in circumference, with fresh agreeable sub-acid pulp. May be valuable as stock for better quality anonas.

### **ANNONA SQUAMOSA,** Sugar Apple.

Indigenous to the Malay Islands, but now cultivated throughout the tropics and subtropics. Superior varieties are readily propagated by budding on seedlings of the same species or on *A. glabra*. The roundish fruits, about 4 inches in diameter, contain a soft granular pulp of pleasant, sweet flavor, enclosing numerous seeds.

34695. **ANTIDESMA NITIDUM**. From C. F. Baker, Los Baños, Philippine Islands. A fine, shapely shrub, nearly covered with great numbers of pendant clusters of small edible berries of a red color turning to black. Valuable for its fruit and for ornamental planting.



**ARALIA CORDATA, UDO.**

A Japanese vegetable suitable for wide cultivation for its blanched, edible shoots. Plant 3 to 4 feet apart. Plants grow bushy and yield edible shoots for nine years. To blanch shoots mound with earth or cover with closed drain tile in early spring. To cook, peel, slice into ice water and serve with French dressing, or stew and serve like asparagus.

**1913. ARISTOTELIA MACQUI.**

From Mr. Teodoro Finger, Coronel, Chile. Spanish name "Maqui." A beautiful evergreen bush or tree producing small, reddish-black fruits of the size of a pepper with a sweet-acid taste. The juice of this fruit is used for coloring wine, and is exported in large quantities to Europe, Argentina, and Peru.

**33800. ASTERISCIUM CHILENSE.** From Jose D. Husbands, Lima-vida, Chile. Umbelliferous plant, native of central Chile and locally called "Anisillo" or "Muchu," grows in dry, sandy places, is fragrantly aromatic and provides a refreshing febrifuge. Is used also by the natives for stomach diseases. It yields a great number of seeds and may prove to be a source of an industrial oil, extract, or essence.

**21002. BAMBOS TULDA.**

Bamboo. From A. T. Gage, Sibpur, Calcutta, India. One of the most useful plants of Bengal, found growing in great abundance, flowering in May. Tender young shoots, two feet high, are pickled and used for food. Fiber used for mats, baskets, window blinds and fans; wood used for scaffolds, roofing, etc.

**28369. BAMBOS ARUNDINACEA,**  
Bamboo. From A. T. Gage, Sibpur, Calcutta, India.

Rapid-growing bamboo, 50 to 60 feet high, with stout stems and thick, plumelike foliage. The plants form large clumps and are therefore readily kept in check. For ornamental planting and wind breaks.

**20974. BARLERIA FLAVA,** from W. S. Lyon, Mindoro, Philippine Islands.

A dwarf shrub belonging to the order Acanthaceae. This species produces small yellow flowers arranged in terminal spikes, and flowers very abundantly over a period of six months. In its native habitat the shrub succeeds well in shallow, rocky soil at sea level where exposed to nearly continuous drought from January to May.

34330. **BARYXYLUM IN-  
ERME.** From E. D. Merrill, Manila,  
Philippine Islands. Tall, ornamental,  
evergreen shade tree, with Mimosa-  
like foliage, native of the Malayan  
region, found growing near the sea-  
shore. Has large, showy, yellow flow-  
ers, in terminal panicles. Related to  
the Poinciana.

35232. **BLIGHIA SAPIDA.**  
Akee. From W. Harris, Kingston,  
Jamaica. A beautiful African tree for  
park, and possibly street planting.  
Properly prepared, the bright yel-  
low, fleshy aril is a richly flavored,  
wholesome food. Stew in milk and  
brown in a frying pan with butter; or  
boil and mix with salt fish, onions  
and tomatoes. The aril when old be-  
comes poisonous. Only those from  
absolutely fresh fruits should be used.

32416. **BRASSICA JUNCEA.**  
Collected by Mr. Frank N. Meyer,  
Sarepta, Saratoff Government, Russia.  
The famous Sarepta mustard which is  
very strong and in great favor through-  
out Russia. Besides being ground into  
mustard powder, the seeds themselves  
are often used in cooking. The oil  
which is expressed from the seeds is  
also used for culinary purposes.

33289. **BRASSICA PEKINEN-  
SIS.** Cabbage. Presented by Mr.  
Joseph Baillo, University of Nanking,  
Nanking, China. "Shantung." These  
Chinese cabbages should be planted in  
midsummer and left in the ground  
until the first heavy frost. The best  
varieties have very little cabbage odor  
about them.

30805. **BUDDLEIA HEMS-  
LEYANA.** From Dr. R. Irwin Lynch,  
Cambridge University Botanic Gar-  
den, Cambridge, England. A flower-  
ing shrub occurring in the Provinces  
of Hupeh and Szechuan, China.

31736. **CAJUPUTI LEUCA-  
DENDRA.** Cajuput tree. From Mr.  
J. H. Maiden, director, Botanic Gar-  
dens, Sydney, New South Wales,  
Australia. A rapid-growing myrta-  
ceous tree closely allied to the Euca-  
lyptus; reaches a height of 80 feet. It  
can be grown on the edges of salt  
water swamps where no Eucalyptus  
will survive. The wood is hard, close-  
grained, and almost imperishable un-  
derground.

**29961. CARAGANA ARBORESCENS.**

Siberian Pea Tree.

From Dr. David Prain, Kew, England.

Hardy ornamental shrub, 20 feet high, with yellow flowers, extensively grown in Russia, trimmed low for ornamental hedges. Very drought resistant and used by the Russian government as a nurse tree in dry, young timber tracts. For testing as an ornamental and as a windbreak.

**CARICA PAPAYA. PAPAYA.**

A small tree native of tropical America, with straight trunk and large palmatifid leaves supported by long slender petioles. Usually dioecious, the small fruited kinds are sometimes hermaphrodite. The fruits are globose or oblong, up to 50 cm. in length. The tender salmon-colored meat is rich in digestive properties. May be eaten raw, or cooked as a vegetable unripe.

**32482. CARISSA GRANDIFLORA.** South African amatungulu. Presented by Mr. J. E. Higgins of Honolulu. A handsome apocynaceous shrub with glassy green leaves, white scented flowers, and scarlet ovoid fruits an inch in length. Useful home garden fruit with a flavor peculiarly like that of cranberries when stewed. Fruit can be dried like prunes.

**26170. CASSIA GRANDIS, from J. M. Doctor, Bombay, India.**

A tall, leguminous tree attaining a height of 55 feet and producing a very handsome, fine-grained wood. Occurs in many parts of tropical America, where it is frequently planted as an avenue or shade tree on account of its dense foliage. The flowers are produced in April and are very handsome. Will not stand frost.

**CERATONIA SILIQUA, Carob.**

Dwarf, evergreen tree, 20 feet high, with thick trunk and shining leathery leaves. The female trees produce dark brown pods, about 4 to 10 inches in length, commonly known as St. John's Bread; these are eaten for their sweetish pulp. They also form a very nutritious food for cattle.

**CHENOPODIUM QUINOA.**

Tall annual largely cultivated on the dry slopes of the Andes for its nutritious but acrid seeds used in soups or prepared similar to rice in several changes of water. Recommended for trial as a substitute for spinach, for which purpose its leaves have long been used in France during the hot off season for this vegetable. Its culture is similar to mustard.

**CICER ARIETINUM,**

Chick-peas, Garbanzos.

Drought resistant varieties of this legume are recommended for dry farming regions and as rotation crops with wheat. Culture similar to English bush peas and the yield of seeds about 12 bushels per acre. The small pods contain one or two seeds, eaten roasted like salted peanuts, boiled or baked like navy beans, or ground into flour.

**27858. CITRULLUS VULGARIS.** Watermelon. "Princess Marie." From Mr. Horace G. Knowles, Bucharest, Roumania. A dark-green skinned watermelon, with dark-red flesh—the most commonly grown variety in Roumania.

**27987. CITRULLUS VULGARIS.** Watermelon. Received through Mr. Frank N. Meyer, Yelisevetpol, Caucasus, Russia. A large-sized melon of good quality, containing very small seeds. To be tested under irrigation in the hot-summered, arid, and semiarid sections of the United States.

**29242. CITRULLUS VULGARIS.** Watermelon. From Mr. Frank N. Meyer, Samarkand, Russian Turkestan. A small watermelon having a light-green rind and salmon-red sweet flesh. Has small seeds and is an early ripener. To be tested under irrigation in the hot and dry sections of the United States.

**29243. CITRULLUS VULGARIS.** Watermelon. From Mr. Frank N. Meyer, Tashkend, Russian Turkestan. A small watermelon having light green rind and salmon red sweet flesh, and very juicy. To be tested under irrigation in the hot and dry sections of the United States.

**29244. CITRULLUS VULGARIS.** Watermelon. From Mr. Frank N. Meyer, Tashkend, Russian Turkestan. A small-sized watermelon having dark green rind with light green patches and pale red sweet flesh. To be tested under irrigation in the hot and dry sections of the United States.



**30890. CITRULLUS VULGARIS.** Watermelon. Presented by Mr. W. W. Masterson, American consul, Elazehir, Turkey. A large-sized variety.

**23028. CITRUS LIMONUM,** Lemon. From Frank Meyer, Fengtai, China. Dwarf, ornamentallemon, cultivated by the Chinese as a decorative plant in the winter. Small pot plants are frequently observed with a dozen large lemons on their branches. Readily propagated from cuttings. For testing as an ornamental and for breeding experiments in this country.

**22620. CLEMATIS RECTA MANDSHURICA.** From Frank Meyer, Shinglungshan, China. Herbaceous perennial, 2 to 3 feet high, with erect stems terminating in panicles of large white flowers. For testing as an ornamental or as a cut flower plant.

**34432. CORDYLINÉ BANKSII.** Palm Lily. From D. Petrie, Epsom, Auckland, New Zealand. Fine liliaceous plant, native of New Zealand, appearance much like a hardy, tree-like palm, often 10 feet high, with leaves from 5 to 6 feet long. Flowers white, bell-shaped, in drooping panicles, in late spring, sweet-scented; much visited by bees. Fruits whitish, succulent, berry-like, with angular, black seeds.

**28606. CROTALARIA CANDICANS,** from Dr. J. C. Willis, Peradeniya, Ceylon. A leguminous plant of erect habit of growth, 3 to 4 feet tall, bearing masses of ornamental bright yellow flowers. The plants thrive best in a light, rich soil and are recommended as cover crops and soil renovators and for trial as ornamentals.

**29490. CROTALARIA SALTIANA.** Presented by the Usumbwa Company, Usumbwa, Mwanza, German East Africa. A legume which is being tested in East Africa to ascertain its value as a green manure.

**33565. CRYPTOSTEGIA GRANDIFLORA.** From H. J. Davies, Lucknow, India. A vigorous climbing vine with large lavender flowers. Probably a native of the island of Madagascar, but cultivated in various parts of India and Egypt. Produces a beautiful fiber and a milky sap from which a good quality of rubber is made.

**31365. CUCUMEROPSIS MAN-  
NII (?) Kiffy.** Procured through Mr. Henry Stewart, Liberia, Africa. A cucurbitaceous plant bearing gourd-like fruits about the size and shape of a goose egg, the seed of which when parched and ground, produce a delicious condiment.

**27779. CUCUMIS MELO.** Muskmelon. Presented by Mr. Alfred L. Crowe, Cephalonia, Greece. "Beckeria." A large winter melon.

**27785. CUCUMIS MELO.** Muskmelon. Presented by Mr. Alfred L. Crowe, Zante, Greece.

**27805. CUCUMIS MELO.** Muskmelon. From Mr. Frank N. Meyer, Erivan, Caucasus, Russia. A celebrated local variety of muskmelon, called "Dootna", said to be of very good quality. To be tested under irrigation in the hot semi-arid sections of the United States.

**27988. CUCUMIS MELO.** Muskmelon. Received through Mr. Frank N. Meyer, Geok-Tepe, Caucasus, Russia. "Dootna." These melons are buried underneath the soil while growing, as otherwise they do not acquire the right flavor and aroma. To be tested under irrigation in the hot-summered, arid, and semiarid sections of the United States.



**27989. CUCUMIS MELO.**

Muskmelon. Received through Mr. Frank N. Meyer, Yelisevetpol, Caucasus, Russia. A large variety of melon of fine quality. To be tested under irrigation in the hot-summered, arid, and semiarid sections of the United States.

**27991. CUCUMIS MELO.**

Muskmelon. Received through Mr. Frank N. Meyer, Geok'Tepe, Caucasus, Russia. "Germel." A large, almost globular melon of extra fine quality; pale yellow with green stripes; ripens very early; is not a good shipper. Recommended for trial in hotbeds.

**28964. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Merv, Turkestan. An early-ripening muskmelon of very sweet flavor. To be tried under irrigation in the hot and dry sections of the southwestern United States.

**28965. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Merv, Turkestan. A very sweet flavored muskmelon; to be tried under irrigation in the hot and dry sections of the United States.

**29231. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Samarkand, Russian Turkestan. A round, drab-green muskmelon; flesh yellowish, very sweet and aromatic. To be tested under irrigation in the dry and hot sections of the United States.

**29233. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Samarkand, Russian Turkestan. A yellowish colored muskmelon of good quality, flat-round shape, with rosy-green flesh, sweet and aromatic. To be tested under irrigation in the dry and hot sections of the United States.

**29234. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Tashkend, Russian Turkestan. An oval, drab-green melon; thick green flesh of delicious sweet taste; good keeping qualities. To be tested under irrigation in the hot and dry sections of the United States.

**29237. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Tashkend, Russian Turkestan. A golden-yellow melon of round-oblong shape, slightly ribbed; flesh whitish and of remarkably sweet and aromatic flavor. To be tested under irrigation in the dry and hot sections of the United States.

**29235. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, near Tashkend, Russian Turkestan. An oval green melon; salmon-red sweet flesh; has remarkably few seeds; is a good keeper. Called "Amerikanski" melon and believed to have come from America. To be tested under irrigation in the dry and hot sections of the United States.

**29238. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Andijan, Russian Turkestan. A small, very oblong, pointed, green melon; flesh sweet, of rosy color. A so-called winter melon; can be kept until New Year's Day. To be tested under irrigation in the dry and hot sections of the United States.

**29236. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Kostakos, Russian Turkestan. An oblong, greenish melon; flesh white, very juicy, sweet, and aromatic. To be tested under irrigation in the dry and hot sections of the United States.

**29239. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Andijan, Russian Turkestan. An oval greenish yellow melon; flesh white, melting, and very sweet; can be kept for several weeks. To be tested under irrigation in the dry and hot sections of the United States.

**29240. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Andijan, Russian Turkestan. An oblong, pointed, greenish yellow melon; flesh white and very firm. Can be kept for several months. To be tested under irrigation in the dry and hot sections of the United States.

**29241. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Osh, Russian Turkestan. A melon of large size and oval shape; rind yellow with green veins; pale yellow flesh of a fine, sweet aromatic flavor. Found at an altitude of 4,000 feet.

**29332. CUCUMIS MELO.**

Muskmelon. Presented by Mr. Walter Fischer, Para, Brazil. A long, smooth and distinctly ribbed fruit, weighing on an average of 14 pounds; the flesh is orange and of very good flavor.

**29459. CUCUMIS MELO.**

Muskmelon. Presented by Mr. James O. Laing, American consul, Malta. An oval yellow melon with delicately flavored flesh ranging through various tints of pinkish orange. The rind is no thicker but much tougher and more resilient than that of an American muskmelon. It is an excellent shipper.

**30469. CUCUMIS MELO.**

Muskmelon. Presented by Mr. W. W. Masterson, American consul, Diarbekr, Kurdistan, Asiatic Turkey. A winter variety, elongated in shape; greenish white flesh; rind coarsely netted.

**30471. CUCUMIS MELO.**

Muskmelon. Presented by Mr. W. W. Masterson, American consul, Diarbekr, Kurdistan, Asiatic Turkey. A ball shaped, but sectioned, yellow winter melon with white flesh.

**30640. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Guma, Chinese Turkestan. A large, oval winter melon of excellent keeping and shipping qualities. Rind rough and of yellow color; flesh white, firm, sweet. To be tried in sections where the summers are very hot and dry.

**30641. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Karawag, Chinese Turkestan. "Tuna." A yellowish green melon, which often grows one yard long, while not any thicker around than a beet root, having firm, moderately sweet, white flesh, not very juicy, has few seeds; is a good shipper.

**30642. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Shagran-bazar, Chinese, Turkestan. "Kare Kutcha." A dark green, early-ripening melon of medium size and of long oval shape; flesh reddish, not very sweet; a good keeper and shipper.

**30643. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Kashgar, Chinese Turkestan. "Kara Kash." A very early small green melon, flattened shape, slightly ribbed; very sweet yellowish green flesh.

**30891. CUCUMIS MELO.**

Muskmelon. Presented by Mr. W. W. Masterson, American consul, Diarbekr, Turkey. A large variety.

**31301. CUCUMIS MELO.**

Muskmelon. From Mr. Frank N. Meyer, Kashgar, Chinese Turkestan. A small round summer melon, said to ripen early; white flesh of very sweet flavor. To be tested in sections of the United States where the summers are hot and long and where the soil is of a friable, slightly sandy nature and contains a fair percentage of alkaline matter.

32143. CUCUMIS MELO.  
Muskmelon. Received through Mr. Geo. J. Salem, Beni Souef, Egypt. "Domini." This melon is somewhat larger and sweeter than the cantaloupes grown in the United States and keeps well.

33275. CUCUMIS MELO.  
Muskmelon. Presented by Mr. R. Frazer, Jr., American consul, Valencia, Spain. "Bronceado." An oval or slightly conical melon of wonderfully fine flavor, with very thick flesh and small seed cavity. The genuine winter melon of this zone. These winter melons are harvested in the early fall and with care can be kept for six months or more.

33277. CUCUMIS MELO.  
Muskmelon. Presented by Mr. R. Frazer, Jr., American consul, Valencia, Spain. "Bronceado" and "Negro" seed mixed. An oval or slightly conical melon of wonderfully fine flavor, with very thick flesh and small seed cavity. The genuine winter melon of this zone. These winter melons are harvested in the early fall and with care can be kept for six months or more.

33213 & 33214. CYDONIA OB-  
LONCA. Quince. From Pedro Giraud, Granada, Spain, 1912. Antequera. Oblong variety, smooth and well formed, with fine, mellow flesh, considered the best of all varieties of quinces. Spanish quinces are famous for their high quality and the best are said to come from Antequera.

29641. CYTISUS MADEREN-  
SIS. From Dr. George V. Perez, Puerto de Orotava, Teneriffe, Canary Islands. A valuable forage plant and an ornamental shrub, found in the Canary, Cape Verde and Madeira Islands, grows best at an altitude of from 2,000 to 4,000 feet. Plants said to be as nutritious as alfalfa and very drought resistant, but should be cut back two or three times a year.

15351. CYTISUS SCOPARIUS.  
Scotch broom. (Received through J. M. Thorburn & Co., New York, N. Y.) A yellow-flowering ornamental shrub, attaining a height of 10 feet, with erect, slender branches. Is recommended by landscape gardeners for covering banks.



**33546. DEGUELIA TIMORIENSIS.** From A. H. Hartless, Saharanpur, India. A tall, woody, evergreen legume, native of the tropics from India eastward to China, and through the Malay Archipelago, southward to Australia. A vigorous climber, very useful for covering trellises, arbors and houses.

**16921. DIOSPYROS KAKI,** Tamopan Persimmon, from Frank Meyer, Ming Tombs Valley, near Peking, China.

Fruit thick skinned, seedless unless cross-pollinated; sometimes  $\frac{1}{2}$  inches in diameter, with characteristic furrow around it. Nonstringent as soon as mellow but while still firm. May prove hardy as far north as Washington, D. C.

**22362. DIOSPYROS KAKI.**

Persimmon. From F. N. Meyer, Peking, west of Peking, Chihli, China. Bears a large, flat, seedless fruit, about  $\frac{1}{2}$  inches across and of a bright orange color. An excellent snipper if picked not too ripe, or when picked too ripe to ship otherwise, can be kept indefinitely in a frozen state and thawed out just before eating without losing its fine flavor. Chinese name, "Ta shi tsa."

**22365. DIOSPYROS KAKI.** Persimmon. From Mr. Frank N. Meyer, Taidjatsoa, west of Pautingfu, Chihli, China. A large, very flat persimmon of orange-red color, found growing in great orchards in the mountain valleys.

**22368. DIOSPYROS KAKI.**

From Frank Meyer, Taidjatsoa, Pautingfu, Chihli, China.

Reported to be rare; a slow-growing tree, with reddish bark, bearing small, yellow fruit with seed.

**22369. DIOSPYROS KAKI.**

Persimmon. From F. N. Meyer, Taidjatsoa, west of Pautingfu, Chihli, China. A small fruited, oblong, scarlet-red persimmon having seeds.



32664. **DIOSPYROS KAKI.**  
Persimmon. *Gumbo*. From Hiroshima,  
Japan. This variety is considered to  
be the best in Japan for drying.

### DIOSPYROS LOTUS.

Compact-growing tree, 20 to 50 feet  
high, with oblong, pubescent, some-  
times glabrous, leaves and reddish,  
white or yellow flowers. The edible,  
globular fruits are brown or black  
when ripe and less than one inch in  
diameter. Extremely drought and heat  
resistant and useful as stocks for im-  
proved, large-fruited varieties of per-  
simmons, especially in dry, hot regions  
of this country.

19416. **DURANTA SP.** From F.H.  
Meyer, Tang-hsi, China. Small orna-  
mental evergreen tree, densely headed  
with rather small glistening green  
leaves, and black berry-like fruits in  
the spring. The trunk is exceedingly  
spiny and may make a good hedge  
plant in the mild-wintered regions of  
the United States.

**ELAEOAGNUS ANGUSTIFOLIA,**  
Oleaster. From Frank Meyer, Datsun,  
Caucasus.

Very ornamental, deciduous shrub,  
or small tree, with narrow, willow-  
like leaves and handsome, fragrant,  
yellow flowers. The sweet, edible  
fruits are reddish-brown and resemble  
slightly a small date.

### ERIOBOTRYA JAPONICA.

Loquat. A medium-sized symmetrical  
tree with handsome leaves, woolly-  
white beneath. Native of China and  
Japan, cultivated throughout the Gulf  
States and California. The fruit is  
small, oval, and yellow, and resembles  
a small pear in shape, with a sweetish  
acid flavor. Requires light rich soil  
with good drainage.

### 31819. ERUGA SATIVA.

Received through Mr. Frank N. Meyer,  
Oasis of Sandu, Chinese Turkestan.  
"Sa-un." A variety of seed, the oil of  
which is used both for culinary and  
illuminating purposes. To be tested as  
a possible crop for the inter-mountain  
regions.

33868. **ERYNGIUM ROSTRATUM**. From Jose D. Eusbands, Lima-vida, Chile. A glabrous, umbelliferous plant growing in parts of Chile, Polynesia and Australia. It has a thick root that is used by the natives of Chile as an antidote for the bite of poisonous spiders. Chilean name, "Cardilla."

31317. **ERYTHRINA POEPPIGIANA**. Bucare. Received through Mr. D. W. May, Mayaguez, Porto Rico. A leguminous tree, native of the lower Andes of Peru, which attains a height of 15 to 20 meters, and has short, conical spines and red flowers. It is cultivated as a shade tree in the coffee and cacao plantations.

27660. **ERYTHRINA UMBROSA**. Received through Mr. D. W. May, Mayaguez, Porto Rico. This Venezuelan tree is a most excellent leguminous shade for coffee and a windbreak for citrus groves.

34486. **EUCALYPTUS SP.** Eucalyptus. From J. A. Hamilton, Tolga, Queensland, Australia. Grown from seed collected at an elevation of 3000 feet above sea level and may prove somewhat harder than those from lower altitudes.

34487. **EUCALYPTUS SIDEROPHLOEA**. Black Ironbark. From J. A. Hamilton, Tolga, Queensland. An Australian timber tree growing about 150 feet in height, furnishing very strong, hard and durable wood, used for railroad ties, wharf piles, spokes and tool-handles.

**EUCALYPTUS TERETICOR-  
MIS**. Flooded Gum. Tall timber tree, about 100 feet high, native of Australia, generally found occupying humid flats or growing around swamps and lakes, or along water courses, and never far from littoral regions. Will not grow in saline soil or adjacent to salt-water streams. Produces excellent timber especially good for wheelwrights' use.

34661. **EUCALYPTUS TRABUTI.** Eucalyptus. From Dr. L. Trabut, Algiers, Algeria. Hybrid between *E. botryoides* and *E. rostrata*. Said to be the first undoubted Eucalyptus hybrid. A vigorous growing timber tree having beautiful red wood suitable for use in the manufacture of furniture.

30137. **EUCOMMIA ULMOIDES,**

Tu Chung,

Deciduous tree of Western China, with leaves and bark containing a remarkable substance resembling rubber, which is being investigated to ascertain its possible economic value. Hardy as far north as Boston, and recommended as an interesting park tree.

33809. **EUPATORIUM SALVIA.** From Jose D. Husbands, Lina-vida, Chile. An evergreen, bushy composite, about 5 feet high, from the woods near Valparaiso, Chile, that bears a profusion of lavender flowers which perfume the air to a great distance.

**FEIJOA SELLOWIANA.**

Ornamental shrub, native of South America, 4 to 8 feet high, with evergreen, pale glaucous leaves and very handsome flowers. The roundish or elliptical greenish fruits are highly aromatic and contain a soft, slightly granular meat and few small seeds. Eaten raw or made into jelly.

26655. **FLACOURTIA RAMONTCHI,**

Governor's Plum.

From R. McIlwaine, Salisbury, Rhodesia.

Densely-leaved, spiny shrub bearing small, yellowish white flowers and purple berries about the size of large cherries, of acid flavor. Eaten raw or preserved. For testing for its economic value and as a hedge plant.

35005. **FRAGARIA CHILOENSIS.** Strawberry. From W. F. Wight, Santiago, Chile. Wild Chilean strawberry of good quality and size, more conical in shape than the wild strawberry of the eastern United States, which may possibly prove valuable for its fruit or in the work of cross pollination for the production of improved varieties.

### 30414. FRAXINUS SP.

From Frank N. Meyer, Khotan, Chinese Turkestan. Native name *I-mo-don*.

A tall-growing ash, resistant to drought and alkali. Of value as a shade and timber tree in dry, arid sections.

### 33810. GNAPHALIUM SP.

From Jose D. Husbands, Limavida, Chile. A composite herb, locally called "Vira-Vira" or "Yerba de la vida," source of a volatile oil, said to be a sudorific, febrifuge, expectorant, etc., and to be used with good results in cases of catarrh, bronchitis, etc.

### 22609. GREWIA PARVIFLORA.

From Frank Meyer, Pangshan, China. Deciduous shrub, or dwarf tree, ten feet tall; leaves color to a golden yellow, and the reddish-brown berries persist into late autumn. Commonly found in dry and rocky locations of China. Recommended for testing as an ornamental.

### HELIANTHUS ANNUUS, Russian Oil Sunflower.

Short season annual, 5 to 7 feet high, with ornamental flowers, followed by large heads containing the numerous seeds, from which a high grade table and valuable drying oil for paints is extracted by pressure. Cultivation comparatively simple. Requires fairly rich and moist but well drained loamy soil and dry atmosphere when maturing in early fall.

### 34615. HIBISCUS MUTABILIS.

Japanese Rose Hibiscus. Presented by Gustav Eisen, Rome, Italy. Large shrub or small tree growing to a height of 10 feet or more and bearing great numbers of beautiful rose-colored, single flowers, 6 inches or more in diameter.

### 35592. HURA CREPITANS.

Sand Box. From Don Nat. O. y Osuna, Noria, Sinaloa, Mexico. Tropical shade tree 40 feet in height, with inconspicuous reddish blooms and curious, deeply furrowed, rounded, hard-shelled, inedible fruits, about the size of an orange, which explode with great force when dried after ripening. Purgative juice is expressed from the seeds.



**ILEX PARAGUARIENSIS**, Yerba mate.

Small evergreen tree resisting temperatures as low as 14 degs. F. Used in preference to tea by millions of South Americans; prepared in similar fashion. Contains some stimulating alkaloid and much less harmful oil than tea. Brazil alone in one year exported \$10,000,000.00 worth of mate, manufactured by scorching, drying and powdering the leaves and young twigs.

31295. **IRIS SP.** Iris. Through Mr. Frank N. Meyer, from Chinese Turk-estan. Altitude 6,600 feet. Found on moist, low places, said to bear blue flowers. Recommended for trial as a garden perennial in uncongenial climates.

27505. **JUNIPERUS PROCERA**, East African Cedar. From Raphael Zon, Washington, D. C.

Tall conifer, 100 feet high, from high altitudes of British East Africa, with straight trunk, yielding durable and valuable timber similar to that used in lead pencils. For testing as an ornamental shade tree.

**LAGENARIA VULGARIS**, South African pipe gourd.

Annual vine suitable for growing south of New York. To make pipes let gourds mature, cut off crooked necks, clean inside and scrape outside, fit with plaster or meerschaum bowl and rubber mouthpiece, as described in Circular No. 24, Bureau of Plant Industry. Culture like that of cucumber. Straw under der growing gourds prevents decay.

24431. **LANSIUM DOMESTICUM**. Doekoe from Buitenzorg, Java. Presented by Dr. H. Treub, Director. One of the most refreshing fruits of the Dutch East Indies. It is about the size of a French prune, of a straw color, with a pulp of a peculiar almost waxy texture and slightly subacid flavor. Seed intensely bitter and should be avoided in eating.

26767. **LIGUSTRUM SP.** Through Mr. Frank N. Meyer, from Sebastopol, Crimea, Russia. A low, bushy, semi-evergreen privet, found growing on dry, rocky mountain sides in somewhat shady places. Recommended as a garden shrub in semi-arid regions of the United States.

**MACADAMIA TERNIFOLIA.**

Queensland Nut. Small, evergreen, nut and timber tree, 40 to 60 feet high, native of eastern Australia, endures light frost. Nuts produced in about seven years from seed, edible, nutritious, with a rich agreeable flavor, much like, but richer than the hazelnut, and with very hard shells. Timber reddish, fine-grained, takes good polish, used in cabinet work, veneers, shingles, etc.

**31689. MALUS SP. Wild Apple.**

From F. N. Meyer, Salsansk, Southern Siberia. An extra hardy, drought and cold resistant variety of wild apple, valuable for the production of hardier types of cultivated apples.

**27968. MALUS PUMILA.**

Paradise Apple. From F. N. Meyer, Geok-Tepe, Caucasus, Russia. A bushy apple, rarely more than 5 feet high, native of the Caucasus, from whence it was probably introduced into western Europe, where it is now extensively used as a dwarfing stock for apples. Has small, red, edible fruits of fair quality, very drought resistant and stands high summer temperatures.

**25629. MALUS SYLVESTRIS, var. Evaline.**

Hardy mid-winter apple originated in Central Wisconsin, of large size, greenish or yellow, with faint blush and pleasant subacid flavor. Quality very good, uniform in size and shape. Resembles closely "Fall Pippin," but is distinct from "Evelyn." Strong upright grower spreading withage. Very productive.

**27153. MALUS SYLVESTRIS.**

Apple. Received through Mr. Frank N. Meyer, from near Kopetnaris, Caucasus, Russia. A white apple said to grow very large, some fruits weighing several pounds each. The trees are able to endure high summer temperatures, but require mild winters. To be tested in the southern sections of the United States.

**31615. MANGIFERA INDICA, "Rio Grande" Mango.**

From Carlos Werckle, San Jose, Costa Rica.

Medium-sized tree with glossy foliage and small, whitish flowers. The young leaves are wine-colored gradually changing toward maturity to yellow and green. Fruits large, roundish and of excellent flavor.



**26323. MAYTENUS BOARIA.** From Mr. Jose D. Husbands, Limavida, Chile. Beautiful shade tree and hedge plant, which succeeds well on otherwise bare and dry lowlands. The hard wood is fine-grained and elastic, mostly plain white or pale yellow, sometimes beautifully veined with red and olive.

**27043. MORUS ALBA.** White Mulberry. From Leon Chenault, Orleans, France. Variety Fastigiata. A rare variety of white mulberry valuable as an ornamental pyramidal tree.

**34386. NOTHOFAGUS PRO-CERA.** From Julio M. Foster, Santiago, Chile. A large, deciduous, timber tree, native of South America, having dense, red wood and considered valuable for furniture, flooring, carpentering and cooperage. The timber is short-lived, however, in contact with water.

**35009 & 35010. OENOTHERA SP.** Evening Primrose. From Valparaiso, Chile. Presented by W. F. Wight, of the Bureau of Plant Industry. Ornamental herbaceous plants, having yellowish orange colored flowers, suitable for park and garden planting in dry situations.

**33783. OLEA FOVEOLATA.** Olive. From Chas. P. Lounsbury, East London, Cape Colony. Shrub, native of south Africa, twelve feet in height, ashy-gray branches; smooth, leathery, oblong-elliptic leaves; small flowers in short axillary cymes, and smooth oblong fruits half an inch long. Introduced for experiments as a possible stock for the cultivated olive.

**PAPAVER SOMNIFERUM, Poppy.**

Erect annual, with handsome varicolored flowers. Cultivated in Orient for opium manufacture. Introduced into this country for the use of its palatable seeds in confectionery and the preparation of morphia for medicinal purposes. The seeds yield a comestible oil. Sow thickly in spring and thin to 6 inches in rows 12 inches apart. Of comparatively easy culture.

**27925. PASANIA CORNEA.**  
Oak. From Mr. W. J. Tutcher, Hong Kong, China. Ornamental, evergreen tree, producing extremely hard-shelled edible acorns, sweet, fine-flavored, highly esteemed by the Chinese as well as by Europeans. Young plants have lived through two winters in Washington. For testing in the mild-wintered regions.

**34642. PASANIA CUSPIDATA.** Evergreen Oak. From the Yokohama Nursery Co., Yokohama, Japan. Vigorous ornamental, evergreen tree, forty feet high, native of Formosa, Korea and milder regions of China. Branches slender; leaves smooth, oblong, pointed; acorns small, edible and sweet when ripe or after frost, boiled or roasted. Tree much used as a hedge plant.

**PERSEA AMERICANA.**  
Avocado. A small semi-tropical American tree growing to about 25 feet, bearing maroon or green pear-shaped fruits from the size of a large orange to that of a muskmelon. The skin is thin and tender, and the seed large. The greenish-yellow pulp, which is chiefly used for salads, is of the consistency of firm butter, and has a decidedly nutty flavor which is most delicious.

**27823. PHASEOLUS VULGARIS.** Received through Mr. Frank N. Meyer, Tiflis, Caucasus, Russia. A long, speckled bean, native to the Caucasus. To be tried in semiarid sections of the United States.

**31307. PHASEOLUS VULGARIS.** Received through Mr. Frank N. Meyer, Suiting, Ili Valley, Chinese Turkestan. An uncommon variety of garden bean. To be tested in cool, elevated regions as a garden vegetable.

**24761. PHYLLOSTACHYS HENONIS.** Bamboo. From William D. Hills, Nagasaki, Japan. **Hachiku.** One of the most important Japanese timber bamboos, growing to a height of from 30 to 40 feet, with a diameter of 3 to 4 inches. Smaller than Moso and Madake. Stem nodes are flatter than those of Madake, culms thinner walled and sprouts produced earlier.

29133. *PHYTOLAOCA ACINOSA*, var. *esculenta*. A perennial found wild only in moist mountain forest undergrowth in Japan. The leaves are eaten boiled in miso soup by the native rural people; the root is somewhat poisonous and is used as a drug by the herb medical school; the berries are not edible.

**PISTACIA CHINENSIS**, Pistache.

Tall deciduous, dioecious tree, strikingly ornamental, with large pinnate leaves, wine-red when young, changing to vivid green in summer and flaming scarlet and yellow in fall. Berries inedible. Highly recommended as a shade and ornamental tree.

29476. *PISTACIA TEREBINTHUS PALESTINA*. Melengish. From H. H. Bakkalian, Aintab, Central Turkey. Small tree, useful as a source for turpentine. Bears very showy clusters of small fruits which become red as they ripen, covering the tree. Introduced as a possible stock for *Pistacia vera*.

**PISTACIA VERA**, Pistache. Small tree, 20 feet high, native of Mediterranean region and Orient, produces the pistachio nuts of commerce, having green flesh and peculiar flavor, much used in confectionery and flavoring.

32946. *PODACHAENIUM EMINENS*. From Prof. Alwin Berger, La Mortola, Ventimiglia, Italy. A tall, composite shrub, native of southern Mexico and Central America, highly esteemed on account of the large, sweet-scented foliage and lax terminal corymbs of daisy-like heads with white ray flowers.

22861. *POPULUS* SP. From Frank Meyer, Wutaishan, China. White-barked poplar, growing at high altitudes and valuable for sand binding. Frequently planted along ravines to prevent erosion and damage to lands below. Suggested for similar use and avenue planting in this country. The young bark of the tree is green.

26812. **POPULUS SP.** Poplar. From Mr. Frank N. Meyer, Orianda, Crimea, Russia. Species with white trunk and remarkably pyramidal habit, attaining 80 feet. They branch out and lose their pyramidal shape when old. Of value in Western States for windbreaks and as ornamental park trees.

33206. **POPULUS SP.** Chopo Poplar. From Pedro Giraud, Granada, Spain, at the request of W. T. Swingle, of the Bureau of Plant Industry. Remarkable form of poplar with true lateral branches almost completely absent, allowing of very close planting. Rapid grower, producing large quantities of timber suitable for scaffolding or lumber for small packing boxes.

27721. **POPULUS ALBA.** Poplar. From Mr. Frank N. Meyer, Tiflis, Caucasus, Russia. *Var. pyramidalis.* A tall, fast-growing, pyramidal poplar, having a very white trunk. Suitable for windbreaks and as avenue trees in the mild-wintered semiarid sections.

30057. **POPULUS ALBA BOLLEANA.** White poplar. Through Mr. Frank N. Meyer, from Upal, Chinese Turkestan. The pyramidal white desert poplar, called "Suda terek." The principal lumber tree of Chinese Turkestan, valuable also as an ornamental tree and windbreak in the irrigated regions of the United States where the summers are hot and the winters are fairly cold.

22363. **POPULUS BALSAMIFERA SUAVEOLENS.** Poplar. From Mr. Frank N. Meyer, Shiling, Chihli, China. A remarkable variety of the small-leaved Chinese poplar of very pyramidal habit; looks like the Lombardy poplar, but makes a more pleasing impression; thrives in a sandy, moisture-retaining soil.

30147. **POPULUS NIGRA.** Lombardy poplar. Through Mr. Frank N. Meyer, from Bas-lengar, Chinese Turkestan, called "Tagh Terek." Grows to be very large and is singularly free from galls or diseases; especially well adapted to semi-arid conditions, and desert regions under irrigation. May prove unusually hardy.



18536. PRUNUS SP. Plum.  
From F. N. Meyer, Shanghai, China.  
A free bearing plum of the Japanese  
type having red fruit of medium size  
and good quality.

31652. PRUNUS SP. Plum.  
From Mr. W. J. Newberry, curator,  
Botanic Gardens, Maritzburg, Natal,  
South Africa. "Methley." A dark red  
fruit; flesh dark red, firm; stone me-  
dium in size, cling; flavor and  
quality good; season very early.

32757. PRUNUS SP. Wild  
Plum. From D. D. Kashgaroff, Sou-  
chodole, Tula Government, Russia,  
through F. N. Meyer. Native of the  
Ussuri District, Eastern Siberia, said  
to be of large size, red in color and to  
ripen early. Flavor said to be much  
improved after having been frozen.

32758. PRUNUS SP. Wild Plum.  
From D. D. Kashgaroff, Souchodole,  
Tula Government, Russia, through  
F. N. Meyer. Native of the Ussuri  
District, Eastern Siberia, and said to  
be of medium size and of a yellow  
color.

17154. PRUNUS ARMENIACA.  
Apricot. From F. N. Meyer, Tch-  
ching, China. A large red apricot of  
good quality, budded on common peach  
stock.

12196. PRUNUS PSEUDO-  
CERASUS. Japanese flowering  
cherry. *Asagi sakura*. From the Yoko-  
hama Nursery Company, Yokohama,  
Japan. One of the famous flowering  
cherries of Japan so extensively plant-  
ed in parks and as an avenue tree in  
that country and so much admired by  
visitors. The trees are literally cov-  
ered in early spring with beautiful  
pink flowers. Habit upright.

**32673. PRUNUS HYBRID.**  
 Pinn. From F. N. Meyer, Kozlov, Tambov Government, Russia. Hybrid plum of medium growth, originated by Mr. I. V. Mijurin, of Kozlov. Very hardy and cold resistant. Beautiful yellow, slightly flattened, spherical fruits of medium size, juicy, sweet and spicy. Budded on S. P. I. No. 22989.

**PSIDIUM GUAJAVA, Guava.**

Evergreen tropical shrub or dwarf tree, with handsome white flowers. The yellowish fruits are round or pyriform, 2 to 3 inches in diameter, with white or pink pulp and numerous seeds. The fruits are sweet or acid, eaten raw or used for canning. They also produce an excellent grade of jelly and "guava cheese."

**32121. PTEROCARPUS INDI-  
 CUS.** A beautiful shade tree, elm-like in form but with drooping branches. Grows abundantly in the Malay Peninsula, but according to report is not native there. Said to differ from the true *P. indicus* in having larger pods. Collected by Mr. C. V. Piper.

**33902. PUYA CHILENSIS.**  
 From J. D. Husbands, Limavida, Chile. A striking, bromeliaceous plant, 4 feet high, with a yucca-like mass of leaves, 2 to 4 feet long, armed with marginal spines, and a branching, hoary, bracted inflorescence, 3 to 5 feet high, with large yellow or greenish-yellow flowers. Young shoots used for food and for making candied sweets.

**32660. RADICULA ARMOR-  
 ACIA.** Horse-radish. Through Mr. Frank N. Meyer, from Soosdal, Vladimir Government, Russia. A variety of horse-radish famous for its fine qualities; in especial demand in Russia during the winter holidays.

**RHUS VERNICIFLUA, Lacquer  
 Tree. POISONOUS TO HANDLE.**  
 (Antidote, weak alcoholic tincture lead acetate.) Tree 25 to 40 feet high, native of China. From the sap collected from incisions in the bark the famous lacquer, considered the most permanent varnish known, is made. Lacquer manufacture is one of the important industries in Japan and China. Tree deciduous and stands considerable frost.



27180. **ROSA SP.** Wild Rose.  
From F. N. Meyer, near Gagri, Caucasus, Russia. Strong-growing rose with many large fruits, found in dry, rocky locations. For experimental use as a stock in semi-tropical locations and for greenhouse forcing.

31291. **ROSA SP.** Wild Rose.  
From F. N. Meyer, valley of the Chong Dighian, Tien Shan Range, Chinese Turkestan, altitude 3500 feet. Tall, slender branches, slightly drooping, few spines, many flowers, and orange-red fruits. For experiments in breeding hardier types of cultivated roses.

31034. **ROSA FERRUGINEA.**  
Rose. From the Director, Imperial Botanic Garden, St. Petersburg, Russia. Hardy, upright shrub, 6 feet high, native of mountains of middle and southern Europe, having slender, purplish branches, covered with glaucous bloom; prickles few, leaflets bluish-green, tinged with red; flowers pink,  $\frac{1}{2}$  inches across, less conspicuous than foliage; fruits scarlet.

33793. **RUBUS HAWAIIENSIS.**  
From the Kau District, Island of Hawaii. Presented by Ralph S. Hosmer, Honolulu. H. I. "Akala," the native Hawaiian raspberry. Tall-growing, shrubby plant with canes from 12 to 15 feet long. Edible fruit large, from 1 to  $1\frac{1}{2}$  inches long and 1 inch in diameter, with a sharp acid flavor.

17737. **SALIX SP.,**  
Willow.  
From Frank Meyer, Scha-ho-schoon, China.

Remarkable ornamental willow, 8 feet high, forming naturally dense, flat-globular heads, but of upright growth when planted in hedges. The branches are long, slender and tinged with red towards the tips.

22450. **SALIX SP.,**  
Willow.  
From Frank Meyer, Pautingfu, China.

Strong-growing bush of upright habit, with smooth, greenish branches tinged with yellowish-red. Occurs on dry lands in North China, requiring no water beyond the scanty summer rainfall.

**29143. SALIX SP. Willow.**

From Mr. Frank N. Meyer, Guldsha, Russian Turkestan. A moderate sized, hard wooded, willow tree with long, very narrow leaves and reddish twigs. Of value for windbreaks and as an ornamental garden and park tree in alkaline sections of the United States. The young twigs are very pliable and may be employed as a tying material.

**30052. SALIX SP. Willow.**

Through Mr. Frank N. Meyer, from Khanaka, Chinese Turkestan. Grows to be very old and large when not continually pollarded; bark of young branches of a mahogany-brown color. Resistant to alkali, great heat and drought. Recommended as an ornamental tree in the United States where the rain fall is light and summer temperatures high.

**19857. SALIX BABYLONICA.**

Weeping Willow. From St. Luzia, Madeira. Secured by David Fairchild. These plants are descendants of a tree growing at St. Helena over the former grave of Napoleon I.

**24418. SALIX BABYLONICA,**  
Weeping Willow. From Frank Meyer,  
Fengtai, China.

Used as a shade tree in the streets of Peking under trying climatic and other conditions; succeeding well on very dry places. Recommended for trial as an ornamental.

**28710. SALIX HUMBOLDT-**  
**IANA.** Willow. From Mr. Jose D.

Husbands, Limavida, Chile. The Chilean "Castilla." A tall growing willow found growing in arid clay soils.

**19856. SALIX VIMALIS.** Osier

Willow from Funchal, Madeira. Secured by David Fairchild. This willow is grown in the mountains and is pollarded to make it produce long branchless shoots, which are used for the manufacture of baskets, chairs, etc.

**26671. SALIX VITELLINA.**  
Golden Willow. From F. N. Meyer,  
near Baidari, Crimea, Russia. Variety  
Aurca. Ornamental tree with rather  
short, thick trunk and handsome gold-  
en yellow branches. Suitable for  
garden and park planting in mild-  
wintered regions, where dry and hot  
summers prevail.

**29521. SAMUELA CARNE-  
ROSANA.** Procured by Mr. Thomas  
W. Voetter, Guajardo, Mexico. The  
buds and flower stalks of this plant,  
also the covering of the mature fruits,  
having much the same flavor as the  
eastern date, are used for food, and  
also as a purgative. From the leaves  
is obtained the "ixtle" fiber exported  
from this district.

**SCHINUS TEREBINTHI-  
FOLIUS.** Pepper-tree. Medium sized,  
ornamental, evergreen tree, native of  
Brazil, with very striking foliage,  
highly prized for avenue and lawn  
planting in mild-wintered regions.  
Similar to *S. molle*, but with stiffer  
branches and leaves larger and darker  
green.

**22023. SOLANUM MELONGENA,**  
Golden Eggplant, from Frank Meyer,  
Peking, China.

Dwarf annual, producing fruits the  
size of a small egg, at first white, later  
turning to a golden yellow color.  
Much grown as an ornamental pot  
plant by Chinese and recommended  
for the same purpose in this country.

**26470. SPONDIAS CYTHEREA.**  
From E. L. Parker, Monrovia, Liberia.  
Deciduous tree of rapid growth, pro-  
ducing richly colored yellow fruits, 2  
inches in diameter, with brownish-  
yellow flesh somewhat resembling the  
pineapple in flavor. Easily propagated  
from cuttings. Suitable for planting  
in Southern Florida and California.

**STILLINGIA SEBIFERA.**  
Chinese Tallow Tree. Medium-sized,  
compact growing tree, with sharply  
pointed leaves and small 3 to 4 seeded  
fruits. The seeds are enveloped by a  
white odorless wax, employed exten-  
sively in China for candle making,  
and the kernels yield a yellow fixed  
oil of bland odor and agreeable nutty  
taste. The tree succeeds well in the  
South and Southwest.

## STRYCHNOS SPINOSA,

Kafir Orange.

Low-growing, spiny shrub, with evergreen foliage and small white flowers. Fruits  $\frac{1}{2}$  to 5 inches in diameter, round and smooth, with extremely hard shells, containing numerous, probably poisonous seeds and spicy, edible pulp, resembling in flavor brandied peaches seasoned with cloves.

24630. TETRASTIGMA HARMANDI. From C. F. Baker, Los Banos, Philippine Islands. An ornamental, tall-growing, woody vine, bearing edible fruits of the size and appearance of scuppernong grapes.

13241. ULEX EUROPAEUS. From Hogg and Robertson, Dublin, Ireland. Upright-growing, spiny, leguminous shrub,  $\frac{1}{2}$  feet high, with striped branchlets and narrow, lanceolate, slightly hairy leaves. The fragrant flowers are bright yellow, 3-4 of an inch long and produced from April to June. A valuable sand-binder and well suited for ornamental seaside planting.

32831. ULMUS SP. Elm. From F. N. Meyer, Imperial Estate "Murgab," Bairam-Ali, Oasis of Merv, Russian Turkestan. Divides into several stems immediately above ground, forming a remarkably dense, umbrella-like head. Valuable shade tree for long, hot-summered regions where winters are not too cold. Thrives fairly well on alkali soils.

34063. ULMUS SP. Karagatch Elm. From Truckee-Carson Field Station, Fallon, Nevada. Grown from seeds received from Russian Turkestan. Rapidly growing elm well suited to semi-arid regions, has much harder and better wood than the American elm and is as good or better for wind-breaks and shade in arid regions.

22975. ULMUS PUMILA, Chinese Elm.

From Frank Meyer, Fengtai, China. Tall shade and timber tree, remarkably resistant to droughts and severe extremes of temperature. Timber mainly used for the manufacture of Chinese carts. Of exceptional promise as shade tree for the northern semi-arid regions of the United States.

**30090. ZEA MAYS.** Corn. Presented by Rev. J. M. W. Farnham, Shanghai, China, "Linoc." A white variety which seems to be much more glutinous than other varieties.

**19397. ZIZIPHUS JUJUBA,** Jujube. From Frank Meyer, Poo-san, China. Medium-sized, deciduous, ornamental, spiny tree, producing roundish or oval fruits, with pleasant, sweetish meat surrounding the seeds. The jujubes are peculiarly drought resistant and will prove quite hardy where the temperature goes to 15 degs. F.





To be checked and returned to

Office of Foreign Seed and Plant Introduction,  
Bureau of Plant Industry, Department of Agriculture,  
Washington, D. C.

See introduction for definition  
of following terms:

T = Tender  
: H = Half hardy  
: All others  
: are hardy  
: S = Seed

18580	Abelmoschus manihot	29243	Citrullus vulgaris H
18475	Abroma augusta T	29244	Citrullus vulgaris H S
33840	Acacia melanoxylon H	30890	Citrullus vulgaris H S
	Acanthosicyos horrida S T	23028	Citrus limonum T
	Aleurites fordii H	22620	Clematis recta mandshurica
	Amerimnon sissoo T	34432	Cordyline banksii T
	Amygdalus davidiana	28606	Crotalaria candicans T S
Amygdalus persica (Bolivian cling			Crotalaria saltiana T S
	on common)	33565	Cryptostegia grandiflora T
Amygdalus persica (Bolivian freestone		31365	Cucumeropsis mannii T S
	on common)	27779	Cucumis melo H S
Amygdalus persica (Sutter Creek on		27785	Cucumis melo H S
	common)	27805	Cucumis melo H S
32372	Amygdalus persica (Buds)	27988	Cucumis melo H S
32373	Amygdalus persica (Buds)	27989	Cucumis melo H S
32374	Amygdalus persica	27991	Cucumis melo H S
32375	Amygdalus persica (Buds;	28964	Cucumis melo H S
32377	Amygdalus persica (Buds)	28965	Cucumis melo H S
32378	Amygdalus persica (Buds)	29231	Cucumis melo H S
32379	Amygdalus persica (Buds)	29233	Cucumis melo H S
32380	Amygdalus persica (Buds)	29234	Cucumis melo H S
33219	Amygdalus persica (Vainqueur)	29235	Cucumis melo H S
33219	" " (On Bolivian peach)	29236	Cucumis melo H S
18235	Amygdalus persica nectarina	29237	Cucumis melo H S
	Annona cherimola T	29238	Cucumis melo H S
31978	Annona muricata T	29239	Cucumis melo H S
	Annona squamosa T	29240	Cucumis melo H S
34695	Antidesma nitidum T	29241	Cucumis melo H S
	Aralia cordata S	29332	Cucumis melo H S
19113	Aristolotelia macqui H	29459	Cucumis melo H S
33800	Asteriscium chilense H	30469	Cucumis melo H S
31761	Bambos arundinacea T	30471	Cucumis melo H S
21002	Bambos tulda T	30640	Cucumis melo H S
20974	Barleria flava T	30641	Cucumis melo H S
34330	Baryxylum inerme T	30642	Cucumis melo H S
35232	Blighia sapida T	30643	Cucumis melo H S
32416	Brassica juncea S	30891	Cucumis melo H S
36054	Brassica pekinensis S	31301	Cucumis melo H S
	Buddleia hemsleyana	32143	Cucumis melo H S
31736	Cajuputi leucadendron T	33275	Cucumis melo H S
35234	Caragana arborescens	33277	Cucumis melo H S
	Carica papaya T S	33213	Cydonia oblonga
	Carissa grandiflora T	29641	Cytisus maderensis H
33781	Cassia grandis T	15851	Cytisus scoparius H
	Ceratonia siliqua T	33546	Deguelia timoriensis T
	Chenopodium quinoa H S	16921	Diospyros kaki H
	Cicer arietinum H S	22362	Diospyros kaki H
27858	Citrullus vulgaris H S	22365	Diospyros kaki H
27987	Citrullus vulgaris H S	22368	Diospyros kaki H
29242	Citrullus vulgaris H S	22369	Diospyros kaki H

32864	Diospyros kaki H	29476	Pistacia terebinthus H
	Diospyros lotus H	29219	Pistacia vera H
19416	Duranta sp. H	32946	Podochaenium eminens T
	Elaeagnus angustifolia	22861	Populus sp.
	Eriobotrya japonica H	26812	Populus sp.
31819	Eruca sativa H S	33206	Populus sp.
33868	Eryngium rostratum T	27721	Populus alba
31317	Erythrina poeppigiana T S	30057	Populus alba bolleana
27660	Erythrina umbrosa T	22363	Populus balsamifera suaveolens
34486	Eucalyptus sp. H	30147	Populus nigra italica
34487	Eucalyptus siderophloea H	18586	Prunus sp. (On common peach)
	Eucalyptus tereticornis H	31652	Prunus sp. (Methley on peach)
34661	Eucalyptus trauti H	32757	Prunus sp.
30137	Eucommia ulmoides	32758	Prunus sp.
33809	Eupatorium salvia T	17154	Prunus armeniaca (On peach)
	Feijoa sellowiana H		Prunus pseudo-cerasus
27929	Flacourtia ramontchi T	32673	Prunus spinosa x domestica
	Fragaria chiloensis		Psidium guajava T
30414	Fraxinus sp.	32121	Pterocarpus indicus T
33810	Gnaphalium sp.	33902	Puya chilensis T
22609	Grewia parviflora H	32660	Radicula armoracia
29438	Helianthus annuus S	31639	Rhus verniciflua
34615	Hibiscus mutabilis H	27180	Rosa sp.
35592	Hura crepitans T	31291	Rosa sp. H
34152	Ilex paraguariensis T S	31034	Rosa ferruginea
31295	Iris sp.	33793	Rubus hawaiensis H
27505	Juniperus procera H	17737	Salix sp.
	Lagenaria vulgaris S	22450	Salix sp.
34421	Lansium domesticum T	29143	Salix sp.
26767	Ligustrum sp.	30052	Salix sp.
33912	Macadamia ternifolia T	19857	Salix babylonica
31689	Malus sp.	24418	Salix babylonica
27968	Malus pumila	26762	Salix babylonica
25629	Malus sylvestris (Evaline)	28710	Salix humboldtiana
27153	Malus sylvestris	19856	Salix viminalis
31615	Mangifera indica (Rio Grande)	26671	Salix vitellina
34624	Maytenus boaria H	29521	Samuela carnerosana T
27048	Morus alba		Schinus terebinthifolius H
34386	Nothofagus procera H	22023	Solanum melongena H S
35009	Oenothera sp. H	26470	Spondias cytherea T
33783	Olea foveolata T	18624	Stillingia sebifera H
28990	Papaver somniferum S	33341	Strychnos spinosa T
27925	Pasania cornea H	34630	Tetrastigma harmandi T
34642	Pasania cuspidata H	13241	Ulex europaeus H
	Persea americana T	32831	Ulmus sp.
27823	Phaseolus vulgaris S	34063	Ulmus sp.
31307	Phaseolus vulgaris S	32830	Ulmus densa
24761	Phyllostachys henonis H	22975	Ulmus pumila
29133	Phytolacca acinosa S	30090	Zea mays S
29499	Pistacia chinensis H	19397	Ziziphus jujuba H

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