

U. S. DEPARTMENT OF AGRICULTURE.

BUREAU OF PLANT INDUSTRY—BULLETIN NO. 106.

B. T. GALLOWAY, *Chief of Bureau.*

SEEDS AND PLANTS IMPORTED

DURING THE PERIOD FROM DECEMBER, 1905,
TO JULY, 1906.

INVENTORY No. 12; Nos. 16797 to 19057.

ISSUED DECEMBER 20, 1907.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1907.

BULLETINS OF THE BUREAU OF PLANT INDUSTRY.

The scientific and technical publications of the Bureau of Plant Industry, which was organized July 1, 1901, are issued in a single series of bulletins, a list of which follows.

Attention is directed to the fact that the publications in this series are not for general distribution. The Superintendent of Documents, Government Printing Office, Washington, D. C., is authorized by law to sell them at cost, and to him all applications for these bulletins should be made, accompanied by a postal money order for the required amount or by cash.

- No. 1. Relation of Lime and Magnesia to Plant Growth. 1901. Price, 10 cents.
2. Spermatogenesis and Fecundation of *Zamia*. 1901. Price, 20 cents.
3. Macaroni Wheats. 1901. Price, 20 cents.
4. Range Improvement in Arizona. 1901. Price, 10 cents.
5. Seeds and Plants Imported. Inventory No. 9. 1902. [Exhausted.]
6. A List of American Varieties of Peppers. 1902. Price, 10 cents.
7. The Algerian Durum Wheats. 1902. Price, 15 cents.
8. A Collection of Fungi Prepared for Distribution. 1902. [Exhausted.]
9. The North American Species of *Spartina*. 1902. Price, 10 cents.
10. Records of Seed Distribution, etc. 1902. Price, 10 cents.
11. Johnson Grass. 1902. Price, 10 cents.
12. Stock Ranges of Northwestern California. 1902. Price, 15 cents.
13. Range Improvement in Central Texas. 1902. Price, 10 cents.
14. Decay of Timber and Methods of Preventing It. 1902. [Exhausted.]
15. Forage Conditions on the Border of the Great Basin. 1902. Price, 15 cents.
16. Germination of the Spores of *Agaricus Campestris*, etc. 1902. [Exhausted.]
17. Some Diseases of the Cowpea. 1902. Price, 10 cents.
18. Observations on the Mosaic Disease of Tobacco. 1902. [Exhausted.]
19. Kentucky Bluegrass Seed. 1902. [Exhausted.]
20. Manufacture of Semolina and Macaroni. 1902. Price, 15 cents.
21. List of American Varieties of Vegetables. 1903. [Exhausted.]
22. Injurious Effects of Premature Pollination. 1902. Price, 10 cents.
23. Berseem. 1902. [Exhausted.]
24. Unfermented Grape Must. 1902. Price, 10 cents.
25. Miscellaneous Papers. 1903. Price, 15 cents.
26. Spanish Almonds. 1902. [Exhausted.]
27. Letters on Agriculture in the West Indies, Spain, etc. 1902. Price, 15 cents.
28. The Mango in Porto Rico. 1903. [Exhausted.]
29. The Effect of Black Rot on Turnips. 1903. Price, 15 cents.
30. Budding the Pecan. 1902. Price, 10 cents.
31. Cultivated Forage Crops of the Northwestern States. 1902. Price, 10 cents.
32. A Disease of the White Ash. 1903. Price, 10 cents.
33. North American Species of *Leptochloa*. 1903. Price, 15 cents.
34. Silkworm Food Plants. 1903. Price, 15 cents.
35. Recent Foreign Explorations. 1903. Price, 15 cents.
36. The "Bluing" of the Western Yellow Pine, etc. 1903. Price, 30 cents.
37. Formation of the Spores of the Sporangia of *Rhizopus Nigricans* and of *Phycomyces Nitens*. 1903. Price, 15 cents.
38. Forage Conditions in Eastern Washington, etc. 1903. Price, 15 cents.
39. The Propagation of the Easter Lily from Seed. 1903. Price, 10 cents.
40. Cold Storage with Reference to the Pear and Peach. 1903. Price, 15 cents.
41. The Commercial Grading of Corn. 1903. Price, 10 cents.
42. Three New Plant Introductions from Japan. 1903. [Exhausted.]
43. Japanese Bamboos. 1903. Price, 10 cents.
44. The Bitter-Rot of Apples. 1903. [Exhausted.]
45. Physiological Role of Mineral Nutrients in Plants. 1903. Price, 5 cents.
46. Propagation of Tropical Fruit Trees, etc. 1903. [Exhausted.]
47. The Description of Wheat Varieties. 1903. Price, 10 cents.
48. The Apple in Cold Storage. 1903. Price, 15 cents.
49. Culture of the Central American Rubber Tree. 1903. Price, 25 cents.
50. Wild Rice: Its Uses and Propagation. 1903. Price, 10 cents.
51. Miscellaneous Papers. 1905. Price, 5 cents.

[Continued on page 3 of cover.]

U. S. DEPARTMENT OF AGRICULTURE.

BUREAU OF PLANT INDUSTRY—BULLETIN NO. 106.

B. T. GALLOWAY, *Chief of Bureau.*

SEEDS AND PLANTS IMPORTED

DURING THE PERIOD FROM DECEMBER, 1905,
TO JULY, 1906.

INVENTORY No. 12; Nos. 16797 to 19057.

ISSUED DECEMBER 20, 1907.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1907.

BUREAU OF PLANT INDUSTRY.

Pathologist and Physiologist, and Chief of Bureau, Beverly T. Galloway.
Pathologist and Physiologist, and Assistant Chief of Bureau, Albert F. Woods.
Laboratory of Plant Pathology, Erwin F. Smith, Pathologist in Charge.
Investigations of Diseases of Fruits, Merton B. Waite, Pathologist in Charge.
Laboratory of Forest Pathology, Haven Metcalf, Pathologist in Charge.
Plant Life History Investigations, Walter T. Swingle, Physiologist in Charge.
Cotton and Tobacco Breeding Investigations, Archibald D. Shamel, Physiologist in Charge.
Corn Investigations, Charles P. Hartley, Physiologist in Charge.
Alkali and Drought Resistant Plant Breeding Investigations, Thomas H. Kearney, Physiologist in Charge.
Soil Bacteriology and Water Purification Investigations, Karl F. Kellerman, Physiologist in Charge.
Bionomic Investigations of Tropical and Subtropical Plants, Orator F. Cook, Bionomist in Charge.
Drug and Poisonous Plant Investigations and Tea Culture Investigations, Rodney H. True, Physiologist in Charge.
Physical Laboratory, Lyman J. Briggs, Physicist in Charge.
Crop Technology Investigations, Nathan A. Cobb, Expert in Charge.
Taxonomic Investigations, Frederick V. Coville, Botanist in Charge.
Farm Management Investigations, William J. Spillman, Agriculturist in Charge.
Grain Investigations, Mark A. Carleton, Cerealist in Charge.
Arlington Experimental Farm, Lee C. Corbett, Horticulturist in Charge.
Sugar-Beet Investigations, Charles O. Townsend, Pathologist in Charge.
Western Agricultural Extension Investigations, Carl S. Scofield, Agriculturist in Charge.
Dry Land Agriculture Investigations, E. Channing Chilcott, Agriculturist in Charge.
Pomological Collections, Gustavus B. Brackett, Pomologist in Charge.
Field Investigations in Pomology, William A. Taylor and G. Harold Powell, Pomologists in Charge.
Experimental Gardens and Grounds, Edward M. Byrnes, Superintendent.
Vegetable Testing Gardens, W. W. Tracy, sr., Superintendent.
Seed and Plant Introduction, David Fairchild, Agricultural Explorer in Charge.
Forage Crop Investigations, Charles V. Piper, Agrostologist in Charge.
Seed Laboratory, Edgar Brown, Botanist in Charge.
Grain Standardization, John D. Shanahan, Expert in Charge.
Subtropical Laboratory and Garden, Miami, Fla., Ernst A. Bessey, Pathologist in Charge.
Plant Introduction Garden, Chico, Cal., August Mayer, Expert in Charge.
South Texas Garden, Brownsville, Tex., Edward C. Green, Pomologist in Charge.
Cotton Culture Farms, Seaman A. Knapp, Lake Charles, La., Special Agent in Charge.

Editor, J. E. Rockwell.
Chief Clerk, James E. Jones.

SEED AND PLANT INTRODUCTION.

SCIENTIFIC STAFF.

David Fairchild, *Agricultural Explorer in Charge.*

O. W. Barrett, *Assistant.*
Frank N. Meyer, *Agricultural Explorer.*
Charles F. Wheeler, *Expert.*
Walter Fischer, *Scientific Assistant.*
R. A. Young, *Scientific Assistant.*
Albert Mann, *Expert in Charge of Barley Investigations.*
F. W. Clarke, *Special Agent in Charge of Matting Plant Investigations.*

LETTER OF TRANSMITTAL

U. S. DEPARTMENT OF AGRICULTURE,
BUREAU OF PLANT INDUSTRY,
OFFICE OF THE CHIEF,
Washington, D. C., April 13, 1907.

SIR: I have the honor to transmit herewith, and to recommend for publication as Bulletin No. 106 of the series of this Bureau, the accompanying manuscript, entitled "Seeds and Plants Imported During the Period from December, 1905, to July, 1906."

This manuscript has been submitted by the Agricultural Explorer in Charge of Seed and Plant Introduction with a view to publication.

Respectfully,

B. T. GALLOWAY,
Chief of Bureau.

Hon. JAMES WILSON,
Secretary of Agriculture.

SEEDS AND PLANTS IMPORTED DURING THE PERIOD FROM DECEMBER, 1905, TO JULY, 1906.

INTRODUCTORY STATEMENT.

This twelfth inventory of seeds and plants imported, prepared under the immediate supervision of Mr. Walter Fischer, represents the accessions of this Office between the dates of December 15, 1905, and July 27, 1906, a period of about seven months. It contains 2,260 items, which is as large a number as was represented by the collections of a whole year when this Office was organized in 1898, notwithstanding the fact that the present lists are the result of a more rigid selection than at the outset.

To the outsider it may seem strange that larger numbers of plants and seeds are not accumulated in so long a period. To these it may be said that it is not the object of the work of plant introduction to collect as many species and varieties of plants which may have some economic use in this country as is possible, but rather to carefully collect only such forms as can be put to a really practical use by American cultivators. This Office is informed of hosts of useful plants now growing in different parts of the world which are not yet on the program of practical plant introduction. At a small expense thousands of these useful plants could be gathered and placed in collections, but the cost of maintaining any one of them would in a few years far exceed the cost of procuring it anew for the definite experiments of the experts of the country who may want it for breeding purposes, as a stock on which to graft, or as a possible new crop for hitherto unused lands.

The principle, then, of systematic plant introduction, as it is carried on by this Office, is to get the seeds and plants that are wanted for the solution of definite problems in the establishment of new plant industries; import them in sufficient quantities for large and conclusive experiments, and place them as soon as possible in the hands of experts who will carry out at once such experiments.

Among the collections of new introductions included in this inventory there are some that are worthy of special mention here. Principal among these are the collections of our agricultural explorer

Mr. Frank N. Meyer, who was sent out to northern China in the summer of 1905 and who has been exploring the remarkable plant regions of the mountains north and west of Peking. His finds, coming as they do from a region with as severe a winter as that of the Middle States, will surely be, we believe, valuable to plant growers over a wide range of territory. In fact, the preliminary trials that have been made with these North Chinese plants in this country show that as a rule they have a degree of hardiness and resistance to disease which their close relatives from Japan, now so abundantly represented in our gardens and fields, do not possess. Mr. Meyer's explorations have been made into different places, difficult and sometimes dangerous of access, and at no little sacrifice of personal comfort and risk to his health and safety. The collections cover a wide range of things for which there is a demand already created by breeding, grafting, and other experiments which have been carried on in this country during the past decade. The material sent in is now in process of propagation, and as soon as ready will be sent out to experimenters.

Other collections worthy of notice are a number of new sorghums from tropical Africa, the home of the sorghum plant; a collection of the interesting new wet-land root crop, the yautia, from Porto Rico; some interesting new forms of potato from Bolivia; leguminous plants for breeding as fodder producers, collected from various parts of the world; forage and fodder grasses in large numbers from many different foreign countries; the Queensland nut *Macadamia*, which is a possibility for California; the South China soap tree, which has recently come into some prominence in Algeria as a source of saponin, a commercial product used in the manufacture of soaps; a collection of hardy grass and forage plant seed from the Austrian Alpine garden at an altitude of 5,700 feet; three new pistache species for breeding and for stocks on which to graft the ordinary edible variety of this nut, from the borders of Afghanistan, North China, and northern Persia; a collection of West Indian yams, promising possibilities as a change from the monotony of the Irish potato; a number of new Mexican apricots for the fruit-growing areas of Texas and the Gulf States; and a very important collection of the edible-fruited and fodder cacti, made by the cactus expert of the Department, Dr. David Griffiths, who has made experimental plantings of these most interesting plants in the dry regions of the Southwest.

DAVID FAIRCHILD,
Agricultural Explorer in Charge

OFFICE OF SEED AND PLANT INTRODUCTION,
Washington, D. C., April 12, 1907.

INVENTORY.

16797 to 16806.

From Budapest. Presented by Dr. A. de Degen, director of the Royal Hungarian Seed Control. Received December 15, 1905.

Seeds of native Hungarian grasses, as follows:

16797. <i>BROMUS VERNALIS.</i>	16802. <i>FESTUCA ELATIOR.</i>
16798. <i>BROMUS PANNONICUS.</i>	16803. <i>PIPTATHERUM VIRESCENS.</i>
16799. <i>AVENA DECORA.</i>	16804. <i>GLYCERIA NEMORALIS.</i>
16800. <i>ALOPECURUS BRACHYSTACHYUS.</i>	16805. <i>POA HYBRIDA.</i>
16801. <i>FESTUCA CARPATHICA.</i>	16806. <i>POA CHAIXII.</i>

16807. *ORYZA SATIVA.*

Upland rice.

From Pretoria, Transvaal, South Africa. Presented by Prof. J. Burtt Davy, agrostologist and botanist of the Department of Agriculture. Received December 18, 1905.

"Seed grown in a subtropical valley near Sucre, Bolivia, at an altitude of about 10,000 feet. It is treated as a dry-land crop, like maize." (*Davy.*)

16808. *RUBUS* sp.

Red raspberry.

From Baguio, Benguet Province, P. I. Presented by Mr. W. S. Lyon, Bureau of Agriculture, Manila, P. I. Received December 11, 1905.

16809. *PANICUM MOLLE.*

Para grass.

From Georgetown, British Guiana. Presented by Mr. A. W. Bartlett, government botanist. Received December 19, 1905.

"A valuable grass for pasture and forage in the Tropics. This grass grows luxuriantly in damp meadows and is readily eaten by horses, cattle, and sheep." (*Bartlett.*)

16810. *XANTHOSOMA* sp.

Yautia.

From Ancon, Panama. Presented by Mr. George F. Halsey. Received December 19, 1906.

"Tubers of a plant locally called *Oto*, *Coco*, or *Comorata*. It is very hardy and grows best in a well loosened, moist soil, and the tubers can be cut into many sections and planted like potatoes." (*Halsey.*)

16811. *VICIA AMERICANA.*

American vetch.

From Fergus Falls, Minn. Presented by Mr. C. J. Wright. Received December 20, 1905.

This is a native vetch which grows wild in woods and copses in the northeastern United States. It is much relished by stock and might perhaps be cultivated to some extent with profit.

16812. VIGNA UNGUICULATA.**Cowpea.**

From West Branch, Mich. Received through Ogeman Grain and Seed Company, December 20, 1905.

16813 to 16820.

From Office of Drug and Medicinal Plant Investigations. Received through Dr. R. H. True, December 9, 1905.

Seeds of medicinal plants, as follows:

16813. DIGITALIS PURPUREA.**Purple foxglove.**

"The common purple foxglove cultivated in some parts of Europe for its leaves, which are a valuable remedy. The leaves are official when picked during the time of flowering. This is one of the most important remedies in certain kinds of heart trouble." (*True.*)

16814. LOBELIA INFLATA.**Indian tobacco.**

"A native weed in open situations of the eastern United States. Both seed and herb collected for drug purposes. Has an emetic, expectorant, and antispasmodic action. Is a strong poison, capable of producing fatal results." (*True.*)

16815. ATROPA BELLADONNA.**Belladonna.**

"Cultivated in several parts of Europe for the leaves and roots, which form one of the chief sources of atropine. The attractive looking fruits also contain atropine and are not rarely eaten by children with fatal results. Is sparingly cultivated in the United States for drug purposes." (*True.*)

16816. NEPETA CATARIA.**Catnip.**

"A common weed of the United States, collected in its wild condition for drug purposes. It is valued as a domestic remedy for its carminative, stimulant, and tonic properties, due to the volatile oil present in the herb." (*True.*)

16817. CAPSICUM FASTIGIATUM.**Japanese chillies.**

"Cultivated in the Orient for the small bright red fruits, having a very pungent taste. Used in medicine for the digestant and rubefacient properties, and also for making the ground cayenne peppers of the spice market." (*True.*)

16818. CAPSICUM FASTIGIATUM.**Small capsicum.****16819. PAPAVER SOMNIFERUM.****Asiatic poppy.**

"A blue-seeded variety cultivated in the Orient as a source of opium, and in parts of Europe for the seeds, from which an agreeable bland oil is expressed. Seeds from plants grown at Burlington, Vt." (*True.*)

16820. PAPAVER SOMNIFERUM.**Asiatic poppy.**

A white-seeded variety to which the same remarks apply as to the preceding.

16821 to 16852.

From the Office of Farm Management Investigations. Received December 21, 1905.

A collection of grass seeds, as follows:

16821. BEOMUS RUBENS.

From Caliente, Kern County, Cal., July 2, 1904. (Agrost. 2132.)

16822. BEOMUS sp.

From Arizona, 1904. (Agrost. 2134.)

16823. BEOMUS INERMIS.**Smooth brome-grass.**

From Argentina. Peluff's collection, 1904. (Agrost. 2440.)

16824. BEOMUS INERMIS.**Smooth brome-grass.**

From Arezzo, Italy, 1904. (Agrost. 2351.)

16821 to 16852—Continued.

16825.	BROMUS INERMIS.	Smooth brome-grass.
	From Austria-Hungary. Peluff's collection, 1904.	(Agrost. 2449.)
16826.	BROMUS PRATENSIS.	Meadow brome-grass.
	From Padua, Italy, 1904.	(Agrost. 2373.)
16827.	BROMUS UNIOLOIDES.	Rescue grass.
	(Agrost. 2448.)	
16828.	AGROSTIS STOLONIFERA.	Creeping bent-grass.
	(Agrost. 2323.)	
16829.	AGROSTIS ALBA.	Redtop.
	(Agrost. 2443.)	
16830.	AGROSTIS ALBA.	Redtop.
	From Milan, Italy, 1904.	(Agrost. 2340.)
16831.	AGROSTIS ALBA.	Redtop.
	From Naples, Italy, 1904.	(Agrost. 2341.)
16832.	AGROSTIS ALBA.	Redtop.
	From Rome, Italy, 1904.	(Agrost. 2370.)
16833.	PANICULARIA AMERICANA.	
	From J. M. Thorburn & Co., New York, N. Y.	
16834.	POA NEMORALIS.	Wood meadow grass.
	From Italy, 1904.	(Agrost. 2360.)
16835.	POA PRATENSIS.	Kentucky bluegrass.
	From Padua, Italy, 1904.	(Agrost. 2350.)
16836.	POA PRATENSIS.	Kentucky bluegrass.
	From Treviso, Italy, 1904.	(Agrost. 2356.)
16837.	LOLIUM PERENNE.	Perennial rye-grass.
	(Agrost. 2319.)	
16838.	LOLIUM PERENNE.	Perennial rye-grass.
	(Agrost. 2329.)	
16839.	LOLIUM PERENNE.	Perennial rye-grass.
	(Agrost. 2330.)	
16840.	LOLIUM PERENNE.	Perennial rye-grass.
	From Turin, Italy, 1904.	(Agrost. 2344.)
16841.	LOLIUM PERENNE.	Perennial rye-grass.
	From Milan, Italy, 1904.	(Agrost. 2362.)
16842.	LOLIUM PERENNE.	Perennial rye-grass.
	From Naples, Italy, 1904.	(Agrost. 2365.)
16843.	LOLIUM PERENNE.	Perennial rye-grass.
	From Florence, Italy, 1904.	(Agrost. 2369.)
16844.	LOLIUM PERENNE.	Perennial rye-grass.
	From Genoa, Italy, 1904.	(Agrost. 2375.)
16845.	LOLIUM ITALICUM.	Italian rye-grass.
	From Mantova, Italy, 1904.	(Agrost. 2342.)
16846.	LOLIUM ITALICUM.	Italian rye-grass.
	From Italy, 1904.	Agrost. 2367.)

16821 to 16852—Continued.

- 16847.** *LOLIUM ITALICUM.* **Italian rye-grass.**
 From Conegliano, Italy, 1904. (Agrost. 2371.)
- 16848.** *FESTUCA PRATENSIS.* **Meadow fescue.**
 From Argentina. Peluff's collection, 1904. (Agrost. 2474.)
- 16849.** *ALOPECURUS PRATENSIS.* **Meadow foxtail.**
 (Agrost. 2324.)
- 16850.** *DACTYLIS GLOMERATA.* **Orchard grass.**
 From Padua, Italy, 1904. (Agrost. 2377.)
- 16851.** *PILEUM PRATENSE.* **Timothy.**
 From Rome, Italy, 1904. (Agrost. 2366.)
- 16852.** *HEDYSARUM CORONARIUM.* **Sulla.**
 From Naples, Italy, 1904. (Agrost. 2397.)

16853. *OXALIS ORTIGIESI.* **Oxalis.**

From Washington, D. C. Received through the National Botanic Garden, December 21, 1905.

16854 to 16861. *SORGHUM VULGARE.* **Sorghum.**

From Berlin, Germany. Presented by the Berlin Botanical Museum. Received December 20, 1905.

Sorghum varieties from tropical Africa, as follows:

- | | |
|-----------------------------------|---------------------------------|
| 16854. <i>Orulifer.</i> | 16858. <i>Orulifer.</i> |
| 16855. <i>Usaramensis.</i> | 16859. <i>Jucundus.</i> |
| 16856. <i>Roxburghii.</i> | 16860. <i>Baumannii.</i> |
| 16857. <i>Densissimus.</i> | 16861. <i>Baumannii.</i> |

16862 to 16865.

From College Park, Md. Received through Mr. H. A. Miller, Agricultural Experiment Station, December 20, 1905.

- 16862.** *HORDEUM VULGARE.* **Barley.**
Tennessee Winter. (C. I. No. 257.)
- 16863.** *AVENA SATIVA.* **Oat.**
Sixty-Day. (C. I. No. 165.)
- 16864.** *AVENA SATIVA.* **Oat.**
Snoma. (C. I. No. 274.)
- 16865.** *AVENA SATIVA.* **Oat.**
Burt. (C. I. No. 293.)

16866. *DIOSCOREA TRIFIDA.* **Yampee yam.**

From the Canal Zone. Presented by Mr. George F. Halsey. Received December 27, 1905.

"Roots of a variety apparently distinct from the Jamaica and Porto Rico varieties. This variety should be cultivated in hills and is said to be very productive. The roots are yellowish inside." (*Barrett.*)

16867. *SYNCARPIA LAURIFOLIA.* **Turpentine tree.**

From Melbourne, Australia. Presented by Prof. W. R. Guilfoyle, director of the Botanic Gardens. Received December 29, 1905.

16867—Continued.

"A tree 100 to 150 feet high with diameter 4 to 5 feet; native of the tropical coast regions of New South Wales and Queensland. Valuable timber tree, especially for posts and underground situations; also for piles, as the resinous matter contained in the wood makes it resistant to damp, the attacks of white ants, and the Teredo. Entirely unprotected piles exposed to the waves for twelve years were found absolutely free from decay and the attacks of the Teredo. The wood is also difficult and slow to burn, a useful property in building lumber. An oleo-resin, in degree and character something between Venice turpentine and Canada balsam, contained in the wood is best collected by felling the tree, when it exudes between the bark and sapwood in small drops, which may be scraped off and the resin collected in a pure state." (*J. H. Maiden.*)

16868. CEROPEGIA FUSCA.

From Grand Canary, Canary Islands. Presented by Mr. Alaricus Delmard. Received December 21, 1905.

16869. CYNARA SCOLYMUS.

Artichoke.

From Paris, France. Received through Vilmorin-Andrieux & Co., December 29, 1905.

Seed of the *Globe* or *Paris* artichoke.

16870. DIOSPYROS sp.

Sapote negro.

From Uruapan, Michoacan, Mexico. Presented by Mr. C. G. Pringle. Received December 22, 1905.

16871. PERSEA GRATISSIMA.

Avocado.

From Miami, Fla. Presented by Mr. S. B. Bliss. Received December 18, 1905. *Trapp.*

16872. CITRUS TRIFOLIATA × AURANTIUM.

Citrange.

From the Plant Breeding Laboratory. Received December 22, 1905.

Trees of the *Morton* citrange, a hybrid between the trifoliolate and the sweet orange, developed by Dr. H. J. Webber. (P. B. L. No. 771.)

16873 to 16899.

From Brunswick, Germany. Presented by the Ducal Botanic Gardens. Received December 21, 1905.

A collection of seeds, mostly grass and leguminous forage plants, as follows:

16873. MEDICAGO APICULATA.	16887. SCORPIURUS MURICATA.
16874. MEDICAGO ECHINUS.	16888. SCORPIURUS VERMICULATA.
16875. MEDICAGO MUREX.	16889. SCORPIURUS SUBVILLOSA.
16876. MEDICAGO ORBICULARIS.	16890. ERODIUM GRUINUM.
16877. MEDICAGO SCUTELLATA.	16891. ERODIUM MALACHOIDES.
16878. MEDICAGO TEREPELLUM.	16892. AVENA BREVIS.
16879. MEDICAGO TRIBULOIDES.	16893. AVENA SATIVA DIFFUSA.
16880. ONOBRYCHIS CHRISTA-GALLI.	16894. AVENA SATIVA DIFFUSA.
16881. ONOBRYCHIS CAPUT-GALLI.	16895. AGROPYRON PUNGENS.
16882. LATHYRUS OCHRUS.	16896. BROMUS BRACHYSTACHYS.
16883. PISUM ELATIUS.	16897. BROMUS STERILIS.
16884. PISUM ARVENSE.	16898. HORDEUM AEGICERAS.
16885. PISUM SATIVUM.	16899. HORDEUM ZEOCRITON.
16886. SCORPIURUS SULCATA.	

16900. CEPHALARIA TATARICA.

From Stockholm, Sweden. Presented by the Albano Botanic Gardens.
Received December 21, 1905.

16901 to 16908.

From Saharanpur, India. Presented by Prof. H. M. Leake, economic botanist,
Government Botanic Gardens. Received December 21, 1905.

Grass seeds, as follows:

- | | |
|---------------------------------------|---------------------------|
| 16901. SYNTERISMA SANGUINALIS. | Finger grass. |
| 16902. PANICUM TRYPHERON. | Guinea grass. |
| 16903. PASPALUM DILATATUM. | Large water grass. |
| 16904. CHAETOCHELOA GLAUCA. | Yellow foxtail. |
| 16905. EUCHLAENA MEXICANA. | Teosinte. |
| 16906. ELEUSINE AEGYPTIACA. | |
| 16907. ANDROPOGON PERTUSUS. | |
| 16908. ANDROPOGON HALEPENSIS. | Johnson grass. |

16909 to 16927.

From near Peking, China. Received through Mr. Frank N. Meyer, December 26, 1905.

Cuttings of various fruit trees, grapevines, and ornamentals, as follows:

- 16909.** ULMUS sp. **Elm.**

From Nankou. "(No. 31.) A broad-leaved elm suitable for small gardens and parks." (*Meyer.*)

- 16910.** DIOSPYROS KAKI. **Persimmon.**

From Ming Tombs Valley. "(No. 97.) A small, seedless persimmon, with bright, orange-red fruits attaining 2 inches in diameter; later in ripening than the large ones (S. P. I. No. 16912) and not so good. The trees, however, grow to a larger size, and with their leaves dropped off and loaded with orange-colored fruits are very ornamental. Before falling the leaves also assume beautiful colors." (*Meyer.*)

- 16911.** PYRUS SINENSIS. **Pear.**

From Tcha-ching. "(No. 120.) A fine, white pear with melting flesh; is one of China's finest pears. Comes in late, but, being a poor keeper, disappears very early from the markets." (*Meyer.*) (Same as S. P. I. No. 16916.)

- 16912.** DIOSPYROS KAKI. **Persimmon.**

From Ming Tombs Valley. "(No. 104.) A most valuable fruit. The bright, orange-colored fruits attain a diameter of 4½ inches and are perfectly seedless. Bears shipping extremely well if picked when not quite ripe. Can be kept frozen hard if picked too ripe, and if care is taken can be shipped long distances. Finally, their taste is delicious and they would be highly esteemed in America as a table fruit." (*Meyer.*) (See also S. P. I. No. 16921.)

- 16913.** DIOSPYROS KAKI. **Persimmon.**

From Ming Tombs. "(No. 33.) A larger variety of seedless persimmon than is generally seen, but the fact that they grew on a young tree may account for this. It ripens, however, a fortnight later than those sent in under Nos. 16912 and 16921; otherwise the same description applies to it." (*Meyer.*)

- 16914.** CATALPA BUNGEI. **Catalpa.**

From Peking. "(No. 13.) The real *Catalpa bungei*. A fine tree, said to be covered in spring with pink-white flowers; a favorite tree in old temple yards. This one comes from the Yellow Temple, a short distance north of Peking." (*Meyer.*)

16909 to 16927—Continued.**16915. POPULUS sp.****Poplar.**

From Hwai-jou. "(No. 15.) This poplar seems to be a favorite tree for temple yards; it grows to a very large size, has a straight trunk with branches trimmed high from the ground and with large, dark green leaves. It will be much appreciated as an avenue or park tree." (*Meyer.*)

16916. PYRUS SINENSIS.**Pear.**

From Tcha-ching. (No. 109.) For description see No. 16911.

16917. PRUNUS ARMENIACA.**Apricot.**

From Shan-hai-kwan. "(Nos. 28 and 29.) A wild apricot with small fruits; apparently grows wild in a few cañons." (*Meyer.*)

16918. PRUNUS sp.**Cherry.**

From Tang-shan. "(No. 93.) Apparently a cherry which grows in bush-like form, much resembling a red currant bush. According to the Chinese, the fruits are small but sweet, ripening in early June." (*Meyer.*)

16919. AMYGDALUS PERSICA.**Peach.**

From Shan-hai-kwan. "(No. 32.) A wild peach found near an old monastery, but occurring in many different places—probably escaped from cultivation." (*Meyer.*)

16920. MORUS ALBA.**Mulberry.**

From Ming Tombs. "(No. 92.) A form with very deeply cut leaves, which appear to be decidedly different from the common type." (*Meyer.*)

16921. DIOSPYROS KAKI.**Persimmon.**

From Ming Tombs Valley. "(Nos. 104 and 105.) These trees are grafted upon wild stock and are planted 20 to 30 feet apart. Being slow growers, peaches are planted between the young trees and afterwards taken out when the persimmons need the space. They seem to love a somewhat sheltered position in the foothills of the mountains in a soil made of decomposed rock." (*Meyer.*)

16922. FRAXINUS sp.**Ash.**

From Shan-hai-kwan. "(No. 11.) A decidedly ornamental shade tree; grows in dry situations." (*Meyer.*)

16923. MORUS ALBA.**Mulberry.**

From Ming Tombs. "(No. 91.) Another form with deeply lacinated leaves." (*Meyer.*)

16924. PYRUS SINENSIS.**Pear.**

From Tcha-ching. "(No. 119.) An attractive, medium-sized white pear with a long stem and nonmelting flesh; much relished by the Chinese." (*Meyer.*)

16925. POPULUS sp.**Poplar.**

From Kaulitang. "(No. 38.) This poplar thrives in sandy soil and is planted largely on sandy wastes where no other tree would flourish. The Chinese use the wood in building houses, coffins, etc. A rather ornamental tree with silvery bark." (*Meyer.*)

16926. POPULUS sp.**Poplar.**

From Chang-li. "(No. 30.) A very large poplar with a straight, smooth trunk; well fitted for park or avenue planting." (*Meyer.*)

16927. VITIS sp.**Grape.**

From Hsuen-hwa-fu. "(Nos. 102, 106, and 107.) A fine white grape, berries very long and in heavy bunches; commands high prices and is really a fine table grape; can be kept in paper-lined baskets in a cool place until Chinese New Year (early February)." (*Meyer.*)

16928. VICIA sp.**Vetch.**

From Thomas, Oreg. Presented by Mr. S. W. Gaines. Received December, 1905.

16929 and 16930. QUERCUS spp.**Truffle oaks.**

From Paris, France. Received through Vilmorin-Andrieux & Co., December 30, 1905.

16929. QUERCUS ILEX.**Holly oak.****16930. QUERCUS PUBESCENS.**

Trees introduced for truffle culture.

16931 to 16939.

From St. Louis, Mo. Received through the Missouri Botanical Gardens, January 2, 1906.

A collection of roots, as follows:

16931. MARANTA KEGELJANI.**16936. CALATHEA OPPENHEIMIANA.****16932. CALATHEA PRINCEPS.****16937. CALATHEA VITTATA.****16933. CALATHEA CROTALIFERA.****16938. COLOCASIA NEO-GUINEENSIS.****16934. CALATHEA sp.****16939. MARANTA LEUCONEURA KEROVIANA.****16935. CALATHEA ORNATA SANDERIANA.****16940 to 16944.**

From Chico, Cal. Grown at the Plant Introduction Garden in 1905. Received December 22, 1905.

Seeds, as follows:

16940. ARACHIS HYPOGAEA.**Peanut.**

Grown from No. 4253.

16941. ARACHIS HYPOGAEA.**Peanut.**

Grown from No. 9406.

16942. VOANDZEIA SUBTERRANEA.**Woandzu.**

Grown from No. 10450.

16943. ARACHIS HYPOGAEA.**Peanut.**

Grown from No. 10622.

16944. ARACHIS HYPOGAEA.**Peanut.**

Grown from No. 11140.

16945 to 16948.

From Victoria, Kamerun, Africa. Received through Mr. H. Nehrling, Gotha, Fla., January 3, 1906.

16945. AMOMUM MELEGUETA.**Paradise seed.**

"Native of tropical western Africa. This plant belongs to the ginger family. From a long, scaly rootstock there are produced leafy branches and short, leafless, flower-bearing branches bearing a single white-purple flower. The fruit is red, large, fleshy, and pear-shaped, containing a large number of brown seeds called paradise seed or Guinea grains. Used only in veterinary medicine and in adulterating liquors and pepper." (*Wheeler*.)

16946. XANTHOSOMA sp.**Yautia.**"Xanthosoma violaceum; cultivated." (*Nehrling*.)

16945 to 16948—Continued.

16947. *XANTHOSOMA* sp. **Yautia.**
 "With light green petioles; cultivated." (*Nehrling.*)
 16948. *XANTHOSOMA* sp. **Yautia.**
 "*Colocasia antiquorum*; cultivated." (*Nehrling.*)

16949 to 16979.

From Paris, France. Received through Vilmorin-Andrieux & Co., December 29, 1905.

A collection of seeds, as follows:

16949. *ARRHENATHERUM ELATIUS.* **Tall oat-grass.**
 16950. *TRisetum PRATENSE.*
 16951. *AVENA PUBESCENS.* **Downy oat-grass.**
 16952. *ANTHRISCUS SYLVESTRIS.*
 16953. *BRACHYPODIUM PINNATUM.*
 16954. *BRACHYPODIUM SYLVATICUM.*
 16955. *BROMUS INERIMS.* **Smooth brome-grass.**
 16956. *CORONILLA VARIA.* **Crown vetch.**
 16957. *CYTISUS PROLIFERUS ALBUS.* **Broom.**
 16958. *DACTYLIS GLOMERATA.* **Orchard grass.**
 16959. *FESTUCA DUMETORUM.*
 16960. *FESTUCA ELATIOR.* **Tall fescue.**
 16961. *FESTUCA HETEROPHYLLA.* **Various-leafed fescue.**
 16962. *FESTUCA OVINA.* **Sheep's-fescue.**
 16963. *FESTUCA PRATENSIS.* **Meadow fescue.**
 16964. *FESTUCA RUBRA.* **Red fescue.**
 16965. *FESTUCA TENUIFOLIA.* **Slender-leafed fescue.**
 16966. *HOLCUS MOLLIS.* **Creeping soft-grass.**
 16967. *MELICA CILIATA.*
 16968. *MELICA COERULEA.*
 16969. *MELILOTUS ALBA.* **White melilot.**
 16970. *PASPALUM STOLONIFERUM.*
 16971. *PHALARIS ARUNDINACEA.* **Reed canary grass.**
 16972. *PHLEUM PRATENSE.* **Timothy.**
 16973. *POA COMPRESSA.* **Canadian bluegrass.**
 16974. *POA FERTILIS.*
 16975. *POA SUDETICA.*
 16976. *STIPA TENACISSIMA.* **Esparto grass.**
 16977. *TRIFOLIUM INCARNATUM.* **Crimson clover.**
 16978. *TRIFOLIUM INCARNATUM.* **Crimson clover.**
 Late.
 16979. *TRIFOLIUM INCARNATUM.* **Crimson clover.**
 Extra late; white flowering.

16980 to 16984. ORYZA SATIVA.**Rice.**

From Sivaganga, Madura district, South India. Received through Mr. A. P. Minor, January 4, 1906.

16980.

Jeeragasamba. "(No. 1.) An elegant, very small-sized rice of exceptional whiteness when properly cleaned. It requires an old, well-cultivated soil and will then yield, say, 3,000 pounds per acre or more according to manure applied. The straw is finer and less tough than that of the commoner kinds of paddy and hence is especially valuable as fodder. In good soil it is a 4½ to 5 months' crop." (*Minor*.)

16981.

Varikarudan. (No. 2.)

16982.

Milagi. "(No. 3.) Nos. 2 and 3 give fine white rice, preferred to all others by the higher classes in this part of India. The flavor is supposed to be exceptionally good. Both are hardy and require no exceptional treatment. In an average soil they yield 3,000 pounds per acre and in a well-manured soil up to 5,000 pounds per acre. The straw is good fodder for cattle. The duration of crop is ordinarily 4½ to 5½ months." (*Minor*.)

16983.

Vellakattai, or *Sirumanian*. (No. 4.)

16984.

Erangal, or *Naryan*. "(No. 5.) Nos. 4 and 5 yield a large white rice which is considered particularly nourishing by the lower classes; very hardy, vigorous grower, even in a comparatively poor soil. An ordinary outturn, with little or no manure, is 2,500 pounds per acre, which may be nearly doubled by manuring. The straw is coarser than that obtained from Nos. 2 and 3. The crop matures in 3½ to 4 months, according to soil and other conditions." (*Minor*.)

16985 to 17034.

From Erfurt, Germany. Received through Haage & Schmidt, December 28, 1905.
Seeds of forage crops, as follows:

16985. ASTRAGALUS FALCATUS.	17001. MELILOTUS OFFICINALIS.
16986. AVENA FLAVESCENS.	17002. MELILOTUS PARVIFLORA.
16987. BROMUS PRATENSIS.	17003. MELILOTUS SEGETALIS.
16988. DACTYLIS GLOMERATA.	17004. MELILOTUS SULCATA.
16989. FESTUCA ARUNDINACEA.	17005. PHALARIS ARUNDINACEA.
16990. FESTUCA DURIUSCULA.	17006. PISUM JOMARDI.
16991. FESTUCA ELATIOR.	17007. PLANTAGO PSYLLIUM.
16992. FESTUCA HETEROPHYLLA.	17008. SPARTIUM SCOPARIUM.
16993. FESTUCA OVINA.	17009. VICIA AGRIGENTINA.
16994. FESTUCA PRATENSIS.	17010. VICIA AMBIGUA.
16995. FESTUCA RUBRA.	17011. VICIA BIENNIS.
16996. FESTUCA TENUIFOLIA.	17012. VICIA CALCARATA.
16997. LUZULA ALBIDA.	17013. VICIA CASSUBICA.
16998. LATHYRUS HIRSUTUS.	17014. VICIA CORDATA.
16999. MELILOTUS COERULEA.	17015. VICIA CORNIGERA.
17000. MELILOTUS ALTISSIMA.	17016. VICIA CUSPIDATA.

16985 to 17034—Continued.

17017. <i>VICIA DISPERMA.</i>	17026. <i>VICIA ONOBRYCHIOIDES.</i>
17018. <i>VICIA FERRUGINEA.</i>	17027. <i>VICIA PANNONICA.</i>
17019. <i>VICIA GERARDI.</i>	17028. <i>VICIA PEREGRINA.</i>
17020. <i>VICIA GLOBOSA.</i>	17029. <i>VICIA PICTA.</i>
17021. <i>VICIA GRANDIFLORA.</i>	17030. <i>VICIA PSEUDO-CRACCA.</i>
17022. <i>VICIA HYBRIDA.</i>	17031. <i>VICIA SYLVATICA.</i>
17023. <i>VICIA LUTEA.</i>	17032. <i>VICIA SPURIA.</i>
17024. <i>VICIA MACROCARPA.</i>	17033. <i>VICIA STRIATA.</i>
17025. <i>VICIA MULTIFLORA.</i>	17034. <i>VICIA TRICOLOR.</i>

17035 to 17050.

From Sydney, New South Wales. Presented by Prof. J. H. Maiden, director of Botanic Gardens. Received January 2, 1906.

17035. <i>ANDROPOGON BOMBYCINUS.</i>	17043. <i>PANICUM PROLUTUM.</i>
17036. <i>ASTREBLA PECTINATA.</i>	17044. <i>PASPALUM BREVIFOLIUM.</i>
17037. <i>ASTREBLA ELYMOIDES.</i>	17045. <i>PENNISETUM COMPRESSUM.</i>
17038. <i>CENCHRUS AUSTRALIS.</i>	17046. <i>POLLINIA FULVA.</i>
17039. <i>CHLORIS TRUNCATA.</i>	17047. <i>CHAETOCHELOA AUREA.</i>
17040. <i>CHLORIS VENTRICOSA.</i>	17048. <i>SPOROBOLUS LINDLEYI.</i>
17041. <i>CHRYSOPOGON GRYLLUS.</i>	17049. <i>STIPA ELEGANTISSIMA.</i>
17042. <i>PANICUM DECOMPOSITUM.</i>	17050. <i>STIPA TUCKERI.</i>

17051 and 17052. *BOUTELOUA* spp.

From Silver City, N. Mex. Received through Mr. James K. Metcalfe, January 5, 1906.

17051. <i>BOUTELOUA CURTIPENDULA.</i>	Tall grama grass.
17052. <i>BOUTELOUA OLIGOSTACHYA.</i>	Blue grama grass.

17053. *SOLANUM COMMERSONI.***Aquatic potato.**

From Burlington, Vt. Received through Prof. William Stuart, of the Agricultural Experiment Station, January 6, 1906.

Tubers grown from stock obtained through Dr. Edouard Heckel, of Marseille, France. "Heckel is not at all of the opinion that *Solanum commersonii* should replace our common potato; but if it is adapted to swampy locations it would become very valuable to us, and possibly nonbitter hybrids might be produced for poorly drained soils by cross fertilization." (*L. Wittmack, Gartenflora, 54: 452, 1905.*) (See note to No. 10324.)

17054. *SOLANUM COMMERSONI.***Aquatic potato.**

From Santa Rosa, Cal. Received through Mr. Luther Burbank, November 28, 1905, and February 10, 1906.

Tubers grown from No. 10324. "Has rather small vines, produces an enormous amount of flowers all summer and a reasonable amount of seed balls, which, however, unless pollenized from some other variety never produce a seed. Owing to its wandering disposition, not extra quality, and not being very productive it will never become popular. I judge from what I have read in the French papers that the bluish variety is better." (*Burbank.*)

17055 to 17058.

From Buitenzorg, Java. Presented by Doctor Treub, director of the Department of Agriculture. Received January 5, 1906.

- | | | |
|---------------|---|-----------------|
| 17055. | ARACHIS HYPOGAEA.
"Katjang holle." | Peanut. |
| 17056. | ARACHIS HYPOGAEA.
"Katjang banah waspada." | Peanut. |
| 17057. | ARACHIS HYPOGAEA.
"Katjang amerika." | Peanut. |
| 17058. | VOANDZEIA SUBTERRANEA.
"Katjang bogor." | Woandzu. |

17059. FESTUCA PRATENSIS.**Meadow fescue.**

From Marysville, Kans. Received through Mr. Frank W. Oakley, January 5, 1906.

17060 and 17061.

From Honolulu, Hawaii. Received through Dr. J. N. Rose, of the United States National Museum, Washington, D. C., December 29, 1905.

Seeds, as follows:

- | | | |
|---------------|-----------------------------------|--------------------|
| 17060. | OREODOXA REGIA.
(No. 05/876.) | Royal palm. |
| 17061. | ARISTOLOCHIA sp.
(No. 05/875.) | |

17062. SOLANUM MELONGENA.**Eggplant.**

From Trebizond, Turkey. Presented by Mr. Vital Ojalvo, vice-consul, through Mr. Frank Benton. Received January 6, 1906.

Seed of a violet-colored variety.

17063 to 17066.

From Moscow, Russia. Presented by Prof. William R. Williams, of the Moscow Agricultural Institute. Received January 8, 1906.

- | | | | |
|---------------|------------------------|---------------|--------------------|
| 17063. | ALOPECURUS RUTHENICUS. | 17065. | BROMUS RACEMOSUS. |
| 17064. | BROMUS MOLLIS. | 17066. | BROMUS SYLVATICUS. |

17067 and 17068.

From Paris, France. Received through Vilmorin-Andrieux & Co., January 9, 1906.

- | | | |
|---------------|------------------------|---------------------------|
| 17067. | MELILOTUS COERULEA. | Blue sweet clover. |
| 17068. | CORONILLA SCORPIOIDES. | |

17069 and 17070.

From Dreshertown, Pa. Received through Thomas Meehan & Sons, January 9, 1906.

Stocks upon which to graft imported cuttings, as follows:

- | | | |
|---------------|-----------------|--------------|
| 17069. | MALUS MALUS. | Apple |
| 17070. | PYRUS COMMUNIS. | Pear. |

17071. PANICUM LAEVIFOLIUM.

From Pretoria, Transvaal, South Africa. Presented by Prof. J. Burtt Davy, agrostologist and botanist of the Department of Agriculture. Received January 9, 1906.

17072 to 17075. ELEUSINE CORACANA.

From Bombay Presidency, India. Received through Mr. F. Fletcher, Deputy Director of Agriculture, January 9, 1906.

17072. "*Mukti Nagli*." (Close heads.) From Lonawla.

17073. "*Zipri Nagli*." (Open heads.)

17074. "*Nagli*." (Red.)

17075. "*Nagli*." (White.)

17076 to 17092.

From Paris, France. Received through Vilmorin-Andrieux & Co., January 9, 1906.

Seeds of forage crops, as follows:

17076. ANTHYLLIS VULNERARIA.	Kidney vetch.
17077. ASTRAGALUS FALCATUS.	Milk vetch.
17078. BRASSICA OLERACEA.	Improved branching borecole.
17079. BRASSICA OLERACEA.	Thousand-headed kale.
17080. CYTISUS SCOPARIUS.	Common broom.
17081. FESTUCA DUMETORUM.	
17082. FESTUCA HETEROPHYLLA.	Various-leaved fescue.
17083. FESTUCA OVINA.	Sheep's-fescue.
17084. FESTUCA RUBRA.	Red fescue.
17085. FESTUCA TENUIFOLIA.	Slender-leaved fescue.
17086. LOTUS VILLOsus.	Greater bird's-foot trefoil.
17087. MEDICAGO MEDIA.	Sand lucern.
17088. POA FERTILIS.	
17089. POA NEMORALIS.	Wood meadow grass.
17090. POA SEMPERVIRENS.	
17091. POA TRIVIALIS.	Rough-stalked meadow grass.
17092. ULEX EUROPAEUS.	Furze, gorse, or whin.

17093. CHRYSOPHYLLUM CAINITO.

Star-apple.

From Washington, D. C. Plants grown in the Department greenhouse from seed obtained in 1904 by Mr. G. N. Collins in Jamaica, British West Indies; numbered January 10, 1906.

Fruit from which seeds were obtained was large and light colored.

17094 and 17095. ERAGROSTIS ABYSSINICA.

Teff.

From Abyssinia. Received through His Excellency S. A. Ras Makomen, January 12, 1906.

17094. Pearl white seed.

17095. Brown seed mixed with white.

"Teff is the staple food of the Abyssinians. Considering the general physique of the nation and that teff is practically the sole means of nourishment, as the poorer classes seldom taste meat, the cereal is undoubtedly rich in nitrog-

17094 and 17095—Continued.

enous matter. It possesses, too, a sufficient quantity of starchy matter to constitute a fairly hygienic diet. Teff is utilized as follows: Ground into flour; made into a semiliquid or thin paste consistency by adding water, and placed in earthen jars. The leaves of the 'Geaho' (gesho) plant, which yield a ferment, are added. When fermentation is complete the sirupy mixture is slowly poured on the surface of well-heated, circular, flat baking pans. After a certain amount of manipulation and turning over, a semiaerated, flat, round cake is the result. This keeps for months without deterioration, is broken into fragments and dried in the sun. The dried bread is used as their chief supply when at war or on expeditions. Teff undoubtedly possesses highly nutritious qualities and is decidedly more digestible than wheat. It could therefore be exploited as an invalid food. Teff is not known to possess distinct drought-resisting properties." (*Extract from letter from the British consul at Adis Ababa, Abyssinia.*)

17096. PHASEOLUS RADIATUS.**Mung bean.**

From Augusta, Ga. Received through the N. L. Willet Seed Company, January 12, 1906.

Newman.

17097 to 17100.

From Channing, Tex. Received through Mr. A. H. Leidigh, January 12, 1906.

17097. TRITICUM DURUM.**Macaroni wheat.**

Galgalos. Grown from No. 9872.

17098. TRITICUM DICOCCUM.**Black emmer.**

Grown from No. 11650.

17099. PANICUM MILIACEUM.**Broom-corn millet.**

Black Voronezh. Grown from No. 9425.

17100. HORDEUM VULGARE.**Barley.**

Tennessee Winter. Grown from No. 11193.

17101 to 17103.

From Sibpur, Calcutta, India. Received through Mr. A. Gage, acting superintendent, Royal Botanic Gardens, January 13, 1906.

A collection of tubers, as follows:

17101. AMORPHOPHALLUS CAMPANULATUS.**Stanley's washtub.**

The members of this genus of aroids are natives of India and other parts of tropical Asia, where they are cultivated for the starch which is so abundant in the rootstock. *Amorphophallus campanulatus* has a tuber weighing 8 to 10 pounds, shaped like a flat cheese; spathe nearly 2 feet broad and 15 inches high, with a horizontal, spreading, fluted border, red-purple on the border, then grayish white spotted and purple in the center. Doctor White says of it that when in flower the fetor it exhales is most overpowering, and so perfectly resembles that of carrion as to induce flies to cover the club of the spadix with their eggs.

17102. COLOCASIA ANTIQUORUM ESCULENTA (?)

(Labeled "*Alocasia antiquorum*.")

17103. ALOCASIA INDICA.**Alocasia.**

"These roots are cultivated to some extent throughout India, but do not occupy so important a place in the domestic economy there as do the taros in Polynesia or the yautias in tropical America." (*Barrett.*)

17104. PHALARIS CANARIENSIS.**Canary grass.**

From Malta. Received through Mr. J. Borg, of the St. Antonio Gardens, January 15, 1905.

Malta canary seed. "Requires the same culture as the late varieties of wheat. Very productive and remunerative, although not much grown in Malta. The grain is slightly larger in size than the best Sicilian canary seed; the plant is also stouter." (*Borg.*)

17105. CINNAMOMUM CAMPHORA.**Camphor.**

From Paris, France. Received through Vilmorin-Andrieux & Co., January 15, 1906.

This plant is the source of camphor, the gum being obtained from the extracted juice. The tree is difficult to transplant and is best propagated by seeds, sown as soon as ripe in a shaded bed, the seedlings being transplanted when very small into pots and kept thus until ready to plant out permanently. The soil best suited to camphor is a sandy loam.

17106 to 17130. AMYGDALUS COMMUNIS.**Almond.**

From Girgenti, Italy. Received through Hon. Francis Ciotta, United States consular agent, January 15, 1906.

Almond cuttings, as follows:

17106.

Cornutella. This is a plant requiring special care, but is highly valued for its sweet and agreeable flavor. The tree will attain a vigorous and strong growth; can be cultivated in all climates.

17107.

Cavaliera. In this the vegetation is especially vigorous, resists frost, yields well, and the fruit is extremely tender, being much sought after as a table fruit.

17108.

Caccia. In this the vegetation is extremely strong, resists the rigors of winter, produces richly, and is incomparable for roasting and for making the finest torroni, the tower-like almond cakes made of almonds and honey.

17109.

Bianca. The tree is of medium development, wood not very solid, yields well, fruit extremely sweet and highly valued for table use.

17110.

Selvaggia. This tree has great resistance, grows in a very luxuriant manner and regular form; bears a tender fruit used by preference for the ordinary torroni, almond cakes of the common quality.

17111.

Carina. This tree is of medium development and is very resistant to frost and inclement weather. It produces abundant small, tender fruit which is excellent for pastry and for the almond paste.

17112.

Regaliana. This tree is of medium size and of ordinary resistance; produces abundantly a fruit valuable for the table, exquisitely sweet and sought for in all the markets for its excellent qualities.

17113.

Inglese. This takes its name from the extensive use to which it is put in the manufacture of special pastes in England. It is very delicate and tender, superior for the table and excellent also for making sweetmeats.

17106 to 17130—Continued.**17114.**

Tramontana. Its resistance to frost, which is strong in this almond tree, enables it to grow vigorously in the tramontane regions without injury from exposure to those northern winds. The fruit is sweet and sought after for confectionery.

17115. *Washington.***17123.** *Sanguisuga.***17116.** *Sicilia.***17124.** *Fra Elia.***17117.** *Racalmuto.***17125.** *Milocca.***17118.** *Signora.***17126.** *Kruger.***17119.** *Mantia.***17127.** *Gioglio.***17120.** *Gioia.***17128.** *Nocciola.***17121.** *Sanfilippo.***17129.** *Rocca Rossa.***17122.** *Striata.***17130.** *Giapponese.***17131. ELYMUS VIRGINICUS SUBMUTICUS.****Wild rye-grass.**

From Union, Oreg. Received through Mr. George Gammie, of the Agricultural Experiment Station, January 13, 1906.

A native of the Rocky Mountains. A coarse, perennial grass, growing on alluvial river banks or in rich low grounds. This grass frequently forms a considerable portion of native meadow lands and makes a coarse hay. It starts growth early in the spring and thus affords a good pasturage.

17132. SOLANUM COMMERSONI.**Aquatic potato.**

From New York, N. Y. Received through J. M. Thorburn & Co., January 15, 1906.

Violet tubers procured direct from Mr. J. Labergerie, and will be compared with the form imported direct from Heckel and the forms received from Luther Burbank. (For description see "Le Solanum Commersonii et ses Variations Pomme de Terre de L'Uruguay (Variete Violette)," by J. Labergerie.)

17133. SECHIU M EDULE.**Chayote.**

From South Island, S. C. Received through Gen. E. P. Alexander, January 12, 1906.

17134. PHASEOLUS RADIATUS.**Mung bean.**

From Chillicothe, Tex. Received through Mr. A. B. Conner, December 23, 1906.

Udid. Grown from No. 8541.

17135 to 17137. ORYZA SATIVA.**Rice.**

From Yokohama, Japan. Received through the Yokohama Nursery Company, January 9, 1906.

Japanese rice grown in Shizuoka Ken district, as follows:

17135. *Tamanishiki.***17136.** *Araki.***17137.** *Mochi.* A glutinous variety mostly used for cakes, candy, etc.

17138 to 17140.

From Manila, P. I. Received through Mr. W. S. Lyon, horticulturist, Bureau of Agriculture, January 16, 1906.

17138. LILIUM PHILIPPINENSE.

Benguet lily.

"Its grassy foliage is striking and graceful. It forces here admirably, and I think should be a good subject for a forcing bulb in cultivation." (*Lyon.*)

17139. STERCULIA FOETIDA.

"*Bobuy.*" A tall, handsome, smooth tree with whirled horizontal branches, large compound leaves, and large, dull red flowers appearing with the leaves in spreading panicles. The fruit consists of five large follicles, containing 10 to 15 smooth, black seeds the size of filberts, which are roasted and eaten like chestnuts. Native throughout the tropics of the Old World.

17140. ACTINORHYZIS CALAPPARIA.

Palm.

"One of the most attractive palms of the Areceae group that I have ever seen. I think it would prove a useful subject for house decorations, as our native gardeners grow it to a large size (8 to 10 feet) in flat, shallow, 12-inch pans." (*Lyon.*)

17141. GARCINIA MORELLA.

Gamboge.

From Kingston, Jamaica, British West Indies. Received through Dr. W. Fawcett, director of Hope Gardens, January 18, 1906.

Seeds obtained for the purpose of propagating seedling stocks upon which to graft the mangosteen.

17142 and 17143. PASSIFLORA spp.

From Washington, D. C. Plants grown on the grounds of the Department of Agriculture, and numbered for convenience in recording distribution on January 18, 1906.

17142. PASSIFLORA RACEMOSA.

Passion flower.

17143. PASSIFLORA QUADRANGULARIS VARIEGATA.

Granadilla.

17144. ORYZA SATIVA.

Rice.

From North Galveston, Tex. Received through Dr. S. A. Knapp, January 15, 1906.

Egyptian. "The *Egyptian* rice is locally known in Louisiana as *Bull* rice and has been grown there for a great many years. It has a large berry of the Japanese type—that is, thick and short kernel—somewhat larger than the *Kiushi* rice, dark colored and much softer when it first ripens, so that it answers excellently for the purpose of stock food. It also has more protein than the ordinary rice. The characteristics of its growth are that it requires very little water, has a strong stalk, abundant leaf, is a heavy producer, and will generally make a crop even though the other rices fail. For these reasons it is grown in Louisiana as a stock food." (*Knapp.*)

17145. DIOSPYROS VIRGINIANA.

Persimmon.

From Augusta, Ga. Received through the P. J. Berckmans Company, January 19, 1906.

Seedling stocks for use in grafting imported scions.

17146. GARCINIA MANGOSTANA.

Mangosteen.

From Buitenzorg, Java. Received through Dr. M. Treub, director of the Botanical Gardens, January 19, 1906.

17147. HORDEUM DISTICHUM NUTANS.**Barley.**

From Fort Atkinson, Wis. Received through Mr. W. D. Hoard, January 17, 1906.

Hanna.

17148. AVENA SATIVA.**Oat.**

From Brandon, Wis. Received through Mr. David Jones, January 20, 1906.

Kherson.

17149. XANTHOSOMA sp.**Yautia.**

From Linares, Nueva Leon, Mexico. Presented by Dr. F. Franceschi, Santa Barbara, Cal. Received January 22, 1906.

Linares.

17150. REHMANNIA ANGULATA.

From Narberth, Pa. Received through Mr. William Tricker, January 19, 1906.

"Introduced by James Veitch & Son, London, England. A native of central China; has proved hardy on the Cotswold Hills, England, 750 feet above sea level, without protection; and with moderate protection withstood the severe winter of 1904-5 in Massachusetts. Awarded certificate of merit at Royal Horticultural Society in 1903. Seedlings raised in the spring of 1905, which were planted out under similar conditions with other herbaceous plants, made rapid progress and some commenced to flower in July and were still in flower October 19. Others probably will not flower until 1906, exhibiting more the character of biennials. The plants are vigorous, leaves radical lacinate, of a deep green color and 12 to 15 inches long. Some plants sent up one spike from the main crown, while others sent up several spikes but weaker. Main spikes have produced lateral growths with flowers. Several spikes were 4 feet tall. Flowers like *Bignonia grandiflora* (except in color) are produced at the axils of the leaves. Size, 3 inches in diameter, color, rose-purple with a rich yellow throat spotted with purple. The individual flower resembles *Incarvillea delavayi*. Plants thrive in ordinary garden soil; should have full sunshine and ample space between plants—about 2 feet. Flowers are good for cutting, remaining several days in good condition." (*Tricker.*)

17151. CITRUS AURANTIUM.**Orange.**

From Siang-tan, Hunan Province, China. Received from Mr. S. A. McCalla, through Prof. H. A. Morgan, director of the Agricultural Experiment Station, Knoxville, Tenn., January 17, 1906.

Orange seeds said by Doctor Webber to be of a tangerine type.

"The oranges grown hereabouts are of both the loose-skinned and the tight-skinned varieties. None of them are especially good. The town of Li-ling, which has a latitude of 27° 42' N., is the northern limit of the tight-skinned oranges, but the loose-skinned variety grows as far north as Chang-sha, which is probably about 400 feet above sea level. Nearly every winter there are one or two big snows. I have seen two in the last five years about 9 inches deep; also, from time to time there are freezes, but the orange trees never seem to suffer." (*McCalla.*)

17152 to 17162.

From Chi-li Province, China. Received through Mr. Frank N. Meyer, December, 1905.

Cuttings of fruits and vines, as follows:

17152. PRUNUS ARMENIACA.**Apricot.**

From Tchu-chung. "(No. 118.) This is one of the finest white apricots that grows in China, as I have been told by the natives. They describe the fruit as being very large and white skinned, with a few red spots." (*Meyer.*)

17152 to 17162—Continued.**17153. PRUNUS ARMENIACA.****Apricot.**

From Tcha-ching. "(No. 113.) The kernels of this apricot are sold as almonds; they are small but taste fine. The trees grow very bushy and are grafted upon wild stock." (*Meyer.*)

17154. PRUNUS ARMENIACA.**Apricot.**

From Tcha-ching. "(No. 112.) A large, red apricot described by the natives as being very good." (*Meyer.*)

17155. VITIS VINIFERA.**Grape.**

From Chang-li. "(No. 114.) This is a very fine white grape belonging to the *Muscat* group. In North China it commands more than three times as much money as is paid for the purple grape." (*Meyer.*)

17156. VITIS VINIFERA.**Grape.**

From Hsuen-hwa-fu. "(No. 101.) A splendid green-white grape, considered as the best grape here in China. The berry is very long and the bunches are rather large. The taste is fresh sweet, without being too sweet. An excellent table grape. It is apparently a kind of *Muscat* grape, not being free skinned and having the same general appearance." (*Meyer.*)

17157. VITIS sp.**Grape.**

From Chang-li. "(No. 115.) A dark purple grape; a very heavy bearer. The taste is a trifle watery, but otherwise it is all right. Is a very late grape, the last which appears here on the markets. Free skin; produces very large bunches." (*Meyer.*)

17158. VITIS sp.**Grape.**

From Hsuen-hwa-fu. "(No. 103.) A small purple grape from this region, where it gets intensely cold; the vines are buried over winter." (*Meyer.*)

17159. VITIS sp.**Grape.**

From Hwai-jou. "(No. 95.) A purple grape, said to be early and of good quality." (*Meyer.*)

17160. VITIS sp.**Grape.**

From Hwai-jou. "(No. 94.) A white grape growing near Hwai-jou. I was not able to see any fruit, but am told that it is an early, sweet grape." (*Meyer.*)

17161. VITIS sp.**Grape.**

From Chang-li. "(No. 116.) A light purple colored grape; heavy bearer; large bunches; free skin. Tastes somewhat watery. Might do fine as a wine producer. Is well esteemed here on account of coming the last in season." (*Meyer.*)

17162. (Undetermined.)

From Hwai-jou. "(No. 110.) Cuttings of a vine used around here for tying grapes to the trellises. Looks like *Aristolochia*. Is not produced here, but comes from farther south. It is very tenacious material, admirably fit for the the purpose." (*Meyer.*)

17163 to 17166.

From Queretaro, Mexico. Received through Señor Carlos J. Urquiza, January 20, 1906.

17163. MEDICAGO SATIVA.**Alfalfa.****17164. VICIA FABA.****Broad bean.****17165. LENS ESCULENTA.****Lentil.****17166. (Undetermined.)***Shotolillo.*

17167 to 17181.

From Chi-li Province, China. Received through Mr. Frank N. Meyer, January 24, 1906.

A collection of cuttings, as follows:

17167. AMYGDALUS PERSICA. Peach.

From Tung-chow. "(No. 35.) A large, white peach, considered a fine fruit by the Chinese. Nonmelting flesh. The tree is a very thrifty grower." (*Meyer.*)

17168. CELTIS sp. Hackberry.

From Shan-hai-kwan. "(No. 3.) An ornamental shade tree, growing in dry, rocky situations; if not too heavily attacked by gall insects is decidedly ornamental." (*Meyer.*)

17169. CORYLUS sp. Hazelnut.

From Shan-hai-kwan. "(No. 7.) A low shrub found on steep, rocky mountain sides. May do well as undershrub beneath tall trees." (*Meyer.*)

17170. CRATAEGUS sp. Hawthorn.

From Chang-li. "(No. 10.) A small-leaved *Crataegus* growing wild in the mountains around here. It is used as stock for *Crataegus pinnatifida*." (*Meyer.*)

17171. CRATAEGUS PINNATIFIDA. Hawthorn.

From Chang-li. "(No. 9.) A very large-fruited variety of which seeds were sent to Washington under No. 57a. A remarkable ornamental tree. Is a slow grower, but has large, glossy, dark green leaves, and is loaded in fall with scarlet fruits. In China itself there is not enough of this fruit to supply the demand for making preserves." (*Meyer.*)

17172. DIOSPYROS KAKI. Persimmon.

From Chang-li. "(No. 4.) A medium sized, seedless persimmon. Seems to be a variety of *Diospyros kaki*. Fruit globular, 2 inches in diameter, orange color. The trees grow 30 to 40 feet high." (*Meyer.*)

17173. DIOSPYROS LOTUS. Persimmon.

From Chang-li. "(No. 50.) A wild persimmon on which the large seedless varieties are grafted; is itself also an ornamental tree." (*Meyer.*)

17174. POPULUS sp. Poplar.

From Shan-hai-kwan. "(No. 14.) A very white barked poplar which is extremely cheery in winter landscape on account of its shining white bark. Grows to a rather large-sized tree, 60 to 80 feet. Well fit for an avenue tree or to be planted in groups in parks." (*Meyer.*)

17175. POPULUS sp. Poplar.

From Shan-hai-kwan. "(No. 40.) A very white barked poplar, growing close to the seashore near Shan-hai-kwan. Probably the same as No. 14 (S. P. I. No. 17174), but its locality close to the sea made it look different." (*Meyer.*)

17176. PYRUS sp. Pear.

From Chang-li. "(No. 36.) A very small pear. The fruits do not grow larger than a small cherry. Fit perhaps as an ornamental tree." (*Meyer.*)

17177. PYRUS sp. Pear.

From Shan-hai-kwan. "(No. 37.) A wild pear growing in a rocky ravine." (*Meyer.*)

17178. PYRUS SINENSIS. Pear.

From Chang-li. "(No. 39.) A large yellow pear, nonmelting flesh. Can be kept for many months without spoiling. May be of use in crossing with better kinds." (*Meyer.*)

17167 to 17181—Continued.**17179.** *SALIX* sp.**Willow.**

From Shan-hai-kwan. "(No. 49.) A willow which is used to make strong baskets from. The bark of an older tree becomes pitch black and looks as such rather curious." (*Meyer.*)

17180. (Undetermined.)

From Shan-hai-kwan. "(No. 5.) A plant with long, fierce spines, which might make it suitable for a hedge plant; grows to be a good-sized tree." (*Meyer.*)

17181. *XANTHOXYLUM* sp.**Prickly ash.**

From Shan-hai-kwan. "(No. 12.) Probably not possible to grow from cuttings. Seeds sent to Washington, D. C., under No. 125a." (*Meyer.*)

17182 to 17234.

From Richmond, New South Wales. Received through Mr. H. W. Potts, principal of the Hawkesbury Agricultural College, January 20, 1906.

Grass seeds, as follows:

17182. *ANDROPOGON* sp.**Bluestem.****17183.** *ANDROPOGON AFFINIS.***Coast bluestem.****17184.** *ANDROPOGON SERICEUS.***Hairy bluestem.****17185.** *ASTREBLA ELYMOIDES.***Coarse Mitchell grass.****17186.** *ASTREBLA ELYMOIDES.***Coarse Mitchell grass.****17187.** *ASTREBLA PECTINATA.***Mitchell grass.****17188.** *ASTREBLA PECTINATA.***Mitchell grass.****17189.** *ASTREBLA TRITICOIDES.***Mitchell grass.****17190.** *ASTREBLA TRITICOIDES.***Mitchell grass.****17191.** *CHLORIS ACICULARIS.***Star grass.****17192.** *CHLORIS VENTRICOSA.***Windmill grass.****17193.** *CHLORIS TRUNCATA.***Umbrella grass.****17194.** *CHLORIS TRUNCATA.***Umbrella grass.****17195.** *CHRYSOPOGON GRYLLUS.***17196.** *DEYEUXIA FORSTERI.***Bent-grass.****17197.** *DANTHONIA CARPHOIDES.***Oat-grass.****17198.** *DANTHONIA CARPHOIDES.***Oat-grass.****17199.** *DANTHONIA NERVOSA.***Swamp wallaby.****17200.** *DANTHONIA NERVOSA.***Swamp wallaby.****17201.** *DANTHONIA PENICILLATA.***Wallaby grass.****17202.** *DANTHONIA PENICILLATA.***Wallaby grass.**

Broad-leaved form.

17203. *DANTHONIA SEMIANNULARIS.***Wallaby grass.****17204.** *DANTHONIA PENICILLATA* var.

A broad-leaved variety.

17205. *DANTHONIA PENICILLATA* var.**17206.** *DANTHONIA PENICILLATA* var.**17207.** *DANTHONIA PENICILLATA.*

17182 to 17234—Continued.

17208.	DANTHONIA PENICILLATA VILLOSA.	
17209.	DANTHONIA PENICILLATA.	
17210.	DANTHONIA PENICILLATA.	
17211.	DANTHONIA SEMIANNULARIS.	Wallaby grass.
17212.	DIPLACHNE FUSCA.	Brown-flowered swamp-grass.
17213.	DIPLACHNE FUSCA	Brown-flowered swamp-grass.
17214.	DIPLACHNE PEACOCKII.	
17215.	ELEUSINE AEGYPTIACA.	Crowfoot.
17216.	ERAGROSTIS SP. (Probably <i>E. leptostachya</i> .)	
17217.	ERAGROSTIS BROWNEI.	Love-grass.
17218.	ERAGROSTIS LEPTOSTACHYA.	Love-grass.
17219.	ERAGROSTIS PILOSA.	Weeping love-grass.
17220.	ERIOCHLOA POLYSTACHYA.	Early spring-grass.
17221.	NEURACHNE MITCHELLIANA.	Mulga grass.
17222.	PANICUM ARACHYRACHUS.	
17223.	PANICUM DECOMPOSITUM.	Australian millet.
17224.	PANICUM FLAVIDUM.	Vandyke grass.
17225.	PANICUM FLAVIDUM.	Vandyke grass.
17226.	PANICUM LEUCOPHAEUM.	Cotton grass.
17227.	PANICUM PROLUTUM.	
17228.	PANICUM PROLUTUM	
17229.	POA CAESPITOSA.	Tussock poa.
17230.	POLLINIA FULVA.	Sugar grass.
17231.	PAPPOPHORUM COMMUNE.	Pappus grass.
17232.	PAPPOPHORUM COMMUNE.	Pappus grass.
17233.	CHAETOCHELOA AUREA.	Yellow foxtail.
17234.	DIPLACHNE DUBIA.	Cane-grass.

17235. ARALIA CORDATA.**Udo.**

From Yokohama, Japan. Received through the Yokohama Nursery Company, January 26, 1906.

Kan udo.

17236 to 17244.

From Buitenzorg, Java. Received through Dr. M. Treub, director of the Department of Agriculture, January 26, 1906.

17236. ALOCASIA MACRORRHIZA.

Malay name "Senteh."

17237 to 17244. COLOCASIA ANTIQUORUM.**Taro.**

17237. Variety *nigra*. Malay name "Kiempool ietem."

17238. Variety *monorhiza atroviridis*. Malay name "Talus romah."

17239. Variety *monorhiza scripta*. Malay name "Talus soerat."

17240. Variety *monorhiza nigra*. Malay name "Talus lampoeng ietem."

17241. Variety *monorhiza nigra*. Malay name "Talus lahoen indoeng."

17236 to 17244—Continued.

- 17242.** Variety *monorhiza bayabon*. Malay name "Talus pandan."
17243. Variety *monorhiza bayabon*. Malay name "Talus ketan."
17244. Variety *monorhiza bayabon*. Malay name "Talus kiara."

17245. ERODIUM CYGNORUM.**Stork's-bill or crow's-foot.**

From Sydney, New South Wales. Presented by the director of the Botanic Gardens through Mr. Walter S. Campbell, director of Agriculture. Received January 22, 1906.

"An annual or biennial herb with procumbent or slightly erect stems extending from 1 foot to 3 feet or more in length. This plant is widely distributed throughout the Australian continent, being found in the interior of all the colonies, and in some situations it is moderately plentiful. Its free-seeding qualities have rendered it somewhat proof against extermination. During the spring and early summer months this plant affords a rich succulent herbage, which herbivora of all descriptions are remarkably fond of. Horses will often leave good herbage to browse upon it. Pastoralists speak very highly of this plant as affording good herbage while it is in a young state. But when it is ripening its seeds it is somewhat dreaded by the sheep owner on account of the sharp pointed seed lobes, which not only attach themselves firmly to the wool but the barbed points often penetrate the skin of the animal. Notwithstanding this, however, the plant has much to recommend it as a pasture herb, for it will grow well on the poorest of soils. Many of the dry sandhills of the interior would have little vegetation on them during the early summer months if it were not for this plant. Under cultivation it produces a great amount of herbage, and if cut when it shows its flowers it is not only valuable as a green feed, but it can be made into capital hay. Taking into consideration its great productiveness, we think it might be turned into ensilage with good results. *E. cygnorum* is the only species of the genus that is endemic in Australia." (*Flora Austr.*, 1:297.)

17246 and 17247. NICOTIANA SANDERAE.

From St. Albans, England. Received from Sander & Sons through J. M. Thorburn & Co., New York, N. Y., January 18, 1906.

- 17246.** *NICOTIANA SANDERAE*. **17247.** *NICOTIANA SANDERAE* hyb.

17248 and 17249.

From Salisbury, Rhodesia, South Africa. Presented by Hon. E. Ross Townsend, Secretary for Agriculture. Received January 29, 1906.

- 17248.** *CHLORIS VIRGATA*. **Rhodes-grass.**

"Regarded as a very valuable forage plant." (*Townsend.*) (See No. 9608.)

- 17249.** *PANICUM* sp. **White rapoka.**

"The *rapoka* is a millet which forms the staple article of diet among Mashona natives, and the grass is considered to be excellent for making hay or ensilage. This sample is supposed to be a new and better variety recently introduced from north of the Zambesi." (*Townsend.*)

17250. PISTACIA VERA.**Pistache.**

From Saratoga, Cal. Presented by Rev. A. Fuller. Received January 29, 1906.
Large Red Aleppo.

17251 to 17280. GLYCINE HISPIDA.**Soy bean.**

From Arlington Farm, Virginia.

A collection of soy beans grown on the Arlington Farm in 1905 from seed received through the Division of Agrostology.

Black varieties:

- 17251.** Medium early, black. Grown from Agrost. Nos. 1978, 1979, and 2033, combined.

17251 to 17280—Continued.

Black varieties—Continued.

- 17252.** Flat, medium large, late, black; third crop from Agrost. No. 1293.
- 17253.** Medium black; second crop from Agrost. No. 1536.
- 17254.** Medium black, small seeded; first crop from Agrost. No. 1980.
- 17255.** Medium black, medium early; second crop from Agrost. No. 1188.

Brown varieties:

- 17256.** Medium, reddish brown; second crop from Agrost. No. 1542.
- 17257.** *Brown Eda Mame*, medium early; second crop from Agrost. No. 1185.
- 17258.** *Ogemaw*, early; first crop from Agrost. No. 1992 or S. P. I. No. 13502.
- 17259.** Brown, early; first crop from Agrost. No. 2031.

Green varieties:

- 17260.** *Green Samiarow*, medium, medium early; first crop from Agrost. No. 1972.
- 17261.** Large, medium, green; fourth crop from Agrost. No. 912 or S. P. I. No. 13503, first crop from Agrost. Nos. 1764 and 1971, combined.

Greenish-yellow varieties:

- 17262.** Small, early, greenish yellow; third crop from Agrost. No. 1297.
- 17263.** Small, medium late, greenish yellow; second crop from Agrost. No. 1539.
- 17264.** Medium late, greenish yellow; second crop from Agrost. No. 1198.
- 17265.** Medium late, greenish yellow; second crop from Agrost. No. 1200.
- 17266.** Large, medium late, greenish yellow; second crop from Agrost. No. 1171 or S. P. I. No. 9409.
- 17267.** Late, large, greenish yellow; third crop from Agrost. No. 1298.

Yellow varieties:

- 17268.** *Ilo San*, medium, early, yellow; first crop from Agrost. Nos. 1973, 1974, 1975, and 1765, combined.
- 17269.** Dwarf, early, yellow; third crop from Agrost. No. 976.
- 17270.** Medium yellow, small seed; fourth crop from S. P. I. No. 4912, third crop from Agrost. No. 1169 or S. P. I. No. 9407, and first crop from S. P. I. No. 12399.
- 17271.** Medium early, yellow; second crop from Agrost. No. 1194.
- 17272.** Small, medium yellow; second crop from Agrost. No. 1538.
- 17273.** Medium early, yellow; second crop from Agrost. No. 1197.
- 17274.** Small, early, yellow; second crop from Agrost. No. 1199.
- 17275.** Medium yellow, large seed; third crop from Agrost. No. 1170 or S. P. I. No. 9408, first crop from Agrost. No. 1170-2 or S. P. I. No. 12400, and third crop from Agrost. No. 1296.
- 17276.** Medium early, yellow from Thackara; second and third crops from Agrost. No. 1299.
- 17277.** Medium early, yellow; third crop from Agrost. No. 1295.
- 17278.** Large, medium late, yellow; first crop from Agrost. No. 2032.
- 17279.** Large, late, yellow; first crop from Agrost. No. 2034.
- 17280.** Large, late, yellow; first crop from Agrost. Nos. 1976 and 1977.

17281. MEDICAGO SATIVA.**Alfalfa.**

From Deseret, Utah. Received through Mr. Frank Hinckley, January 31, 1906.
Turkestan. Grown from S. P. I. No. 991.

17282. SECHIU M EDULE.**Chayote.**

From New Orleans, La. Presented by Mr. Aristide Hopkins. Received January 31, 1906.

"Fruit of a white variety considered more delicate than the green variety."
 (*Hopkins.*)

17283 to 17326. PHASEOLUS spp.**Bean.**

From Arlington Farm, Virginia.

A collection of beans grown on the Arlington Farm in 1905 from S. P. I. seed.

PHASEOLUS RADIATUS.**Mung bean.**

17283. Very early. Grown from No. 1161.

17284. Very early. Grown from No. 8814.

17285. Very early. Grown from No. 9889.

17286. Larger than No. 17283. Grown from No. 6430.

PHASEOLUS sp.

17287.

PHASEOLUS RADIATUS.**Mung bean.**

17288. Larger than No. 17283. Grown from No. 10407.

17289. Medium early, medium size. Grown from No. 13394.

17290. Medium early, medium size. Grown from No. 13397.

17291. Medium early, medium size. Grown from No. 13398.

17292. Early, medium size. Grown from No. 13396.

17293. Medium early, medium large. Grown from No. 10610.

17294. Medium early, medium large. Grown from No. 9786.

17295. Early, medium large. Grown from No. 8540.

17296. Early, large. Grown from No. 8486.

17297. Smaller than others. Grown from No. 5071.

17298. Earlier and larger, but otherwise similar to No. 17297. Grown from No. 5437.

17299. Late, medium size. Grown from No. 10527.

17300. Late, large. Grown from No. 12775.

17301. Late, large. Grown from No. 13395.

17302. Medium late, large. Grown from No. 6562.

17303. Medium late. Grown from No. 6378.

17304. Late, large. Grown from No. 1385.

PHASEOLUS MAX.**Mung bean.**

17305. Medium early, small. Grown from No. 8541.

17306. Medium, poor. Grown from No. 13400.

17307. Medium, poor. Grown from No. 13401.

17308. Trailing. Grown from No. 13402.

17309. Trailing. Grown from No. 13403.

17283 to 17326—Continued.**PHASEOLUS CALCARATUS.**

- 17310. Late, large. Grown from No. 6564.
- 17311. Late, medium large. Grown from No. 13380.
- 17312. Late, medium large. Grown from No. 13383.
- 17313. Late, medium size. Grown from No. 13381.
- 17314. Late, medium size. Grown from No. 13382.

PHASEOLUS ANGULARIS.**Adzuki bean.**

- 17315. Very early, small. Grown from No. 10523.
- 17316. Large, similar to No. 17315. Grown from No. 8488.

PHASEOLUS sp.

- 17317. Earlier and larger than the average. Grown from No. 13393.
- 17318. Medium size, medium early. Grown from No. 13392.

PHASEOLUS ANGULARIS.**Adzuki bean.**

- 17319. Medium size, medium early. Grown from No. 13391.
- 17320. Late, large. Grown from No. 13405.
- 17321. Late, large. Grown from No. 13386.
- 17322. Late, large. Grown from No. 13384.
- 17323. Late, medium large. Grown from No. 6417.

PHASEOLUS sp.

- 17324. Earlier than No. 17323, small. Grown from No. 6418.

PHASEOLUS ANGULARIS.**Adzuki bean.**

- 17325. Late, medium large. Grown from No. 8487.

PHASEOLUS RADIATUS.**Mung bean.**

- 17326. Smaller than the average, quite late; not promising. Grown from No. 3868.

17327 to 17436. VIGNA UNGUICULATA.**Cowpea.**

From Arlington Farm, Virginia. Crop of 1905.

- 17327. Black and white mottled.
- 17328. *Chinese Red*. Grown from Agrost. No. 979-3.
- 17329. *Chinese Brouneye*. Grown from Agrost. No. 980-3.
- 17330. *Chinese Whippoorwill*. Grown from Agrost. No. 985-3.
- 17331. *Downs Early Ripener*. Grown from Agrost. No. 1090-2.
- 17332. Grown from S. P. I. No. 8354.
- 17333. Grown from S. P. I. No. 6431.
- 17334. Grown from Agrost. No. 1204-1a-1a.
- 17335. *Extra Early Blackeye*. Grown from Agrost. No. 1232-3 or S. P. I. No. 13456.
- 17336. *Early Black*. Grown from Agrost. No. 1233-1c-1b.
- 17337. *Early Black*. Grown from Agrost. No. 1233-1a-1a.
- 17338. *California Blackeye*. Grown from Agrost. No. 1231-3 or S. P. I. No. 13457.
- 17339. *Southdown Mottled*. Grown from Agrost. No. 1221-3.
- 17340. *Clay*. Grown from Agrost. No. 1255-3 or S. P. I. No. 13458.

17327 to 17436—Continued.

- 17341. *Browneye*. Grown from Agrost. No. 1208-3.
- 17342. *Taylor*. Grown from Agrost. No. 1248-3 or S. P. I. No. 13476.
- 17343. *Early Black*. Grown from Agrost. No. 1233-3.
- 17344. *Unknown*. Grown from Agrost. No. 1251-3 or S. P. I. No. 13468.
- 17345. *Warren's New Hybrid*. Grown from Agrost. No. 1288-3 or S. P. I. No. 13471.
- 17346. *Large Blackeye*. Grown from Agrost. No. 1224-3 or S. P. I. No. 13455.
- 17347. Grown from Agrost. No. 1204-1d-1b.
- 17348. *Browneye Crowder*. Grown from Agrost. No. 1209-2.
- 17349. *Whippoorwill*. Grown from Agrost. No. 1269-2 or S. P. I. No. 13475.
- 17350. *Red Ripper*. Grown from Agrost. No. 1275-3.
- 17351. *Clay*. Grown from Agrost. No. 1255-1a-1a.
- 17352. *Warren's Extra Early*. Grown from Agrost. No. 1218-3.
- 17353. *Unknown*. Grown from Agrost. No. 1251-1a-1a.
- 17354. *Old Man*. Grown from Agrost. No. 1219-3.
- 17355. *Large Blackeye*. Grown from Agrost. No. 1224-1c-1.
- 17356. *Unknown*. Grown from Agrost. No. 1251-1a-1b.
- 17357. Grown from Agrost. No. 1261-1c-1b.
- 17358. *Clay*. Grown from Agrost. No. 1255-1c-1a.
- 17359. *Lady*, broad whitish. Grown from Agrost. No. 1246-1b-1.
- 17360. Grown from Agrost. No. 1261-1a-1a.
- 17361. *Red Ripper*. Grown from Agrost. No. 1257-3.
- 17362. *Large Blackeye*. Grown from Agrost. No. 1224-1a-1a.
- 17363. *White Crowder* \times *Whippoorwill*. Grown from Agrost. No. 1216-2.
- 17364. *Taylor*. Grown from Agrost. No. 1248-1a-1a.
- 17365. *Red Yellow-Hull*. Grown from Agrost. No. 1278-3.
- 17366. *Blackeye* (white giant). Grown from Agrost. No. 1210-3.
- 17367. *Iron*. Grown from Agrost. No. 1247-3.
- 17368. *Taylor*. Grown from Agrost. No. 1248-1c-1b.
- 17369. *Red Mauve* selection. Grown from Agrost. No. 1479-1a-1.
- 17370. *Brown Crowder*. Grown from Agrost. No. 1490-2.
- 17371. *Small Whippoorwill Crowder*. Grown from Agrost. No. 1490 $\frac{1}{2}$ -2.
- 17372. *Wight Black Crowder*. Grown from Agrost. No. 1496-2.
- 17373. *Delicious Large Lady*. Grown from Agrost. No. 1486-2.
- 17374. *Red Whippoorwill*. Grown from Agrost. No. 1596-1.
- 17375. *Jhunga*, large white. Grown from Agrost. No. 1620-1G.
- 17376. *Chauli*, white. Grown from Agrost. No. 1632-1.
- 17377. *Choli*, small red. Grown from Agrost. No. 1636-1G.
- 17378. *Bhadela*, red. Grown from Agrost. No. 1629-1.
- 17379. *Bhadela*, red. Grown from Agrost. No. 1629-1G.
- 17380. *Barbati*, large red. Grown from Agrost. No. 1625-1G.
- 17381. *Choli*, small red. Grown from Agrost. No. 1636-1.

17327 to 17436—Continued.

- 17382. *Barbetti*, large red. Grown from Agrost. No. 1625-1.
- 17383. *Clay*, from *Melear*. Grown from Agrost. No. 17778-1.
- 17384. Selection from hybrid *Black* \times *Iron*. Grown from Agrost. No. 2638.
- 17385. Selection from hybrid *Black* \times *Iron*. Grown from Agrost. No. 2637.
- 17386. *Sixty-Day*. Grown from Agrost. No. 2649.
- 17387. *Sixty-Day*. Grown from Agrost. No. 2651.
- 17388. *Lady-Finger*. Grown from Agrost. No. 2630.
- 17389. Selection from hybrid *Black* \times *Iron*. Grown from Agrost. No. 2639.
- 17390. *Grapeye*. Grown from Agrost. No. 2631.
- 17391. Selection from *Clay*. Grown from Agrost. No. 2634.
- 17392. *Powell's Early Prolific*. Grown from Agrost. No. 2643.
- 17393. *Red Crowder*. Grown from Agrost. No. 2642.
- 17394. *Yellow Sugar Crowder*. Grown from Agrost. No. 2645.
- 17395. Selection from *Clay*. Grown from Agrost. No. 2633.
- 17396. Selection from *Iron*. Grown from Agrost. No. 2636.
- 17397. Selection from *Iron*. Grown from Agrost. No. 2635.
- 17398. *Browneye Crowder*. Grown from Agrost. No. 2641.
- 17399. *Whittle*. Grown from Agrost. No. 2644.
- 17400. Selection from second hybrid *Brown* \times *Iron*. Grown from Agrost. No. 2640.
- 17401. *Rice, Long Lady*. Grown from Agrost. No. 1954-1.
- 17402. *Michigan Favorite*. Grown from Agrost. No. 1991-1.
- 17403. *New Era*. Grown from Agrost. No. 1936-1.
- 17404. *Brown Coffee*. Grown from Agrost. No. 1985-1G.
- 17405. Pinkish tan selection from *Steckler's Improved*. Grown from Agrost. No. 1935-c.
- 17406. *Michigan Favorite*. Grown from Agrost. No. 1991.
- 17407. *Steckler's Improved*. Grown from Agrost. No. 1935-1G.
- 17408. *Whippoorwill* \times *Lady*. Grown from Agrost. No. 2027-1.
- 17409. *Whippoorwill Saddleback*. Grown from Agrost. No. 2025-1.
- 17410. *Black* \times *Blackeye*. Grown from Agrost. No. 2021-1.
- 17411. Selection from *New Era*. Grown from Agrost. No. 2020-1.
- 17412. *Speckled Java*. Grown from Agrost. No. 2009-1.
- 17413. *Calico*. Grown from Agrost. No. 2005-1.
- 17414. *Coffee*. Grown from Agrost. No. 2008-1.
- 17415. *Conch*. Grown from Agrost. No. 2013-1.
- 17416. *Red Whippoorwill*. Grown from Agrost. No. 2003-1.
- 17417. *Extra Early Blackeye* \times *Black*. Grown from Agrost. No. 2018-1.
- 17418. *Holstein*. Grown from Agrost. No. 2014-1.
- 17419. *Little Iron*. Grown from Agrost. No. 2006-1.
- 17420. *Black-Eyed Lady*. Grown from Agrost. No. 2004-1.
- 17421. Grown from Agrost. No. 2023-1 from the Arkansas Experiment Station.
- 17422. *Warren's Extra Early* \times *Sugar Crowder*. Grown from Agrost. No. 2022-1.

17327 to 17436—Continued.

- 17423.** *Iron Mountain.* Grown from Agrost. No. 2017-1.
17424. *Extra Early Blackeye* × *Black.* Grown from Agrost. No. 2019-1.
17425. *Watson's Hybrid.* Grown from Agrost. No. 2007-1.
17426. *Mount Olive.* Grown from Agrost. No. 2011-1.
17427. *Sport.* Grown from Agrost. No. 2024-1.
17428. *Red Crowder.* Grown from Agrost. No. 2012-1.
17429. Grown from Agrost. No. 2029-1 from the Arkansas Experiment Station.
17430. *Iron.* Grown from Agrost. No. 2136.
17431. *Iron.* Grown from Agrost. No. 2310.
17432. *Michigan Favorite.* Grown from Agrost. No. 2309.
17433. *Iron.* Grown from Agrost. No. 2217.
17434. *Iron.* Grown from Agrost. No. 2386.
17435. *Iron.* Grown from Agrost. No. 2260.
17436. *Iron.* Grown from Agrost. No. 2387.

17437. AGAVE RIGIDA SISALANA.**Sisal.**

From Santiago de las Vegas and Havana, Cuba. Received at the Porto Rico Agricultural Experiment Station, Mayaguez, P. R., May 8, 1906.

"Suckers and rooted bulbils collected from plants growing without cultivation in the vicinity of Havana and Santiago de las Vegas." (*Dewey.*)

17438 to 17448.

From Floral Park, Long Island, N. Y. Received through Mr. John Lewis Childs, February 2, 1906.

- | | |
|---|--------------------------|
| 17438. STREPTOSOLEN AMABILIS MAGNIFICA. | |
| 17439. RICHARDIA FRAGRANS. | Calla. |
| 17440. RICHARDIA CHILDSIANA. | Calla. |
| 17441. RICHARDIA AFRICANA NANA COMPACTA. | Little gem calla. |
| 17442. RICHARDIA PRAECOX. | Calla. |
| 17443. RICHARDIA AETHIOPICA GIGANTEA. | Calla. |
| 17444. RICHARDIA ELLIOTTIANA. | Golden calla. |
| 17445. RICHARDIA ALBO-MACULATA. | Spotted calla. |
| 17446. RICHARDIA HASTATA. | Yellow calla. |
| 17447. RICHARDIA AURATA. | Calla. |
| 17448. RICHARDIA RHEMANNI. | Rose calla. |

17449. MEDICAGO SATIVA.**Alfalfa.**

From Chicago, Ill. Received through the A. Dickinson Company, January 30, 1906.

Utah-grown alfalfa seed.

17450. AVENA SATIVA.**Oat.**

From Richmond, Va. Received through T. W. Wood & Sons, February 1, 1906.
 Fall-sown *Appler Rustproof.*

17451. AVENA SATIVA.**Oat.**

From Richmond, Va. Received through T. W. Wood & Sons, January 27, 1906.
Burt.

17452. AVENA SATIVA.**Oat.**

From Augusta, Ga. Received through the N. L. Willet Seed Company, February 1, 1906.
 Fall-sown *Appler Rustproof.*

17453 to 17461. XANTHOSOMA spp.**Yautia.**

From Ceylon. Presented by Mr. H. F. Macmillan. Received February 2, 1906.
 Roots as follows:

- | | |
|--------------------------------------|--|
| 17453. <i>Kalu Ala.</i> | 17458. <i>Malanga Amarillo.</i> |
| 17454. <i>Malanga Blanca.</i> | 17459. <i>Garcendi Kaudala.</i> |
| 17455. <i>Dehi Ala.</i> | 17460. <i>Desa Ala.</i> |
| 17456. <i>Nianie Islenio.</i> | 17461. <i>Kelu Kaudala.</i> |
| 17457. <i>Kaudala.</i> | |

17462 and 17463. XANTHOSOMA spp.**Yautia.**

From Coconut Grove, Fla. Received through Mr. O. W. Barrett, February 5, 1906.
 Honduras varieties.

17464. AVENA SATIVA.**Oat.**

From Yancey, Ga. Received through Mr. H. Yancey, jr., September 28, 1904.
 Pure *Appler Rustproof* oats to be planted for the purpose of growing pure stock seed. Hand selected from S. P. I. No. 11722, February, 1906.

17465. NICOTIANA TABACUM.**Tobacco.**

From Portici, Naples, Italy. Presented by Prof. O. Comes. Received May 16, 1906.
Latakia.

17466 to 17470.

From North China. Received through Mr. F. N. Meyer, February 6, 1906.
 Plants and cuttings, as follows:

17466. CAREX STENOPHYLLA.**Sedge.**

From Marble Pagoda grounds, Peking. "(Nos. 70b and 70c.) A most wonderful 'grass' for lawns. It will save a tremendous lot of drudgery if we can establish this in the United States, for, according to the gardener of the German legation grounds, it is the only 'grass' in dry North China that keeps green all summer notwithstanding droughts. It grows on the rockiest and poorest of soils and never needs mowing. I consider it of the utmost importance, especially for those regions of the United States where there is but a slight amount of precipitation." (*Meyer.*)

17467. VITIS sp.**Grape.**

From Tientsin. "(Nos. 59, 60, and 61.) A pale purple grape ripening in early September; produces large bunches and is a heavy bearer. Taste of the berries a trifle watery, but otherwise a good grape. Can be kept in cold storage for a whole year. The vines are buried during the winter months." (*Meyer.*)

17466 to 17470—Continued.**17468. VITIS sp.****Grape.**

From Tientsin. "(Nos. 62, 63, 64. and 65.) A dark purple grape, with somewhat smaller berries than No. 59 (S. P. I. No. 17467); otherwise the same description applies to it." (*Meyer.*)

17469. ROSA sp.**Rose.**

From Peking. "(Nos. 67 and 68.) A semidouble, yellow rose frequently met in the gardens here. Is a very thrifty grower and able to withstand long droughts. The straight young shoots grow from 5 to 8 feet in height." (*Meyer.*)

17470. AMYGDALUS PERSICA.**Peach.**

From Peking. "(No. 69.) Bud sticks from the tree in the grounds of the German legation in Peking, from which one bag of seeds was sent under No. 9a (S. P. I. No. 18262)." (*Meyer.*)

17471. TRITICUM DURUM.**Macaroni wheat.**

From Littleton, Colo. Received through Mr. James B. Mills, February 7, 1906.
Kubanka.

17472. CRATAEGUS sp.**Hawthorn.**

From Shanghai, China. Presented by Rev. J. M. W. Farnham, D. D., of the Chinese Tract Society. Received February 8, 1906.

17473. RUBUS sp.**Himalaya blackberry.**

From Albany, Oreg. Received through Mr. Albert Brownlow, February, 1906.

Himalaya (synonym, *Himalaya Giant*) blackberry. "This blackberry was grown by Mr. Luther Burbank from seeds received by him about 1889 or 1890 from a friend, who stated that they had been gathered high up on the Himalaya Mountains. It was sparingly disseminated by Mr. Burbank on the Pacific coast about 1894. It is reported to be a very vigorous, semitrailing variety, somewhat closely resembling the 'Evergreen' blackberry of Oregon, but, unlike that sort, shedding its leaves in autumn. In western Washington and Oregon it has been found entirely hardy and in most soils yields very large crops of fruit of good size and quality, ripening earlier than the 'Evergreen.' Although not strictly a trailer, its recumbent habit and very strong growth render a trellis advisable in its culture.

"It is distributed at this time with a view to determining its relative hardiness and its adaptability to culture in sections east of the Rocky Mountains." (*Taylor.*)

17474. PISTACIA VERA.**Pistache.**

From Khost, India. Presented by Mr. Philip Parker, of the Indian Irrigation Service, through J. S. Davis, esq., executive engineer, Bannu, Karum Valley Irrigation Project. Received through Mr. W. T. Swingle, May 21, 1906.

"An unusually interesting deep green variety of the wild nut." (*Swingle.*)

17475. ANDROPOGON SORGHUM.**Kafir corn.**

From Lawrence, Kans. Received through F. Barteldes & Co., April 3, 1906.

17476. MEDICAGO SATIVA.**Alfalfa.**

From Brady, Nebr.

Seed from a single plant. Selected by J. M. Westgate, of this Department, September 28, 1905, in a field belonging to H. K. Peckham, on account of size, drought resistance, hardiness, white flowers, and seedling qualities.

17477. PHYSALIS FRANCHETI.**Ground cherry.**

From Samarkand, Turkestan. Received through Mr. Frank Benton, February 9, 1906.

"(No. 25.) Similar to, if not identical with, No. 18 (S. P. I. 15931) from Caucasus. Pods same color, bright crimson, but longer and more pointed. Fruit seems better in quality and is sold in native bazaars. No. 18 is also eaten sometimes, but is more acid than No. 25." (*Benton.*)

17478. CUCUMIS MELO.**Winter muskmelon.**

From Erivan, southern Caucasus, Russia. Received through Mr. Frank Benton, January 26, 1906.

"(No. 20.) Locally known as *Dutma*. Medium-sized yellow melon with light green flesh. Good quality. Keeps into the winter if hung up in a cool room. A gardener in Erivan states that it is their practice to cover the fruits, when partly grown, with earth, which is left until autumn." (*Benton.*)

17479. ELAEAGNUS sp.**Oleaster.**

From Wagarschapat, southern Caucasus, Russia. Received through Mr. Frank Benton, January 26, 1906.

"(No. 21.) Seeds of an edible fruit known in Armenian as '*Pschad*,' which grows on a good-sized tree. The flesh of the fruit is dry and mealy, tastes something like that of a banana, but is more acid. Much sought after by children. Probably an *Elaeagnus*. Collected in October, 1905." (*Benton.*)

17480. CUCUMIS MELO.**Winter muskmelon.**

From Old Samarkand, Turkestan. Received through Mr. Frank Benton, January 22, 1906.

"(No. 22.) Seed of a winter muskmelon purchased in Sart Bazaar at Old Samarkand, Turkestan, in December, 1905. Rather small, oval, yellow melon with dark bronze shading. Flesh light green or yellowish-green. Quality medium. Keeps until midwinter if hung up in a cool room. Ripens when brought into a warm room." (*Benton.*)

17481. CUCUMIS MELO.**Winter muskmelon.**

From Samarkand, Turkestan. Received through Mr. Frank Benton, January 26, 1906.

"(No. 23.) Seed of a winter muskmelon purchased in Samarkand in December, 1905. Large, oblong, yellow melon, with thick, light green flesh, fair quality; weight about 10 pounds. Keeps until midwinter if hung in a cool room. Some bronze shading on outside; may be only a large specimen of No. 22 (S. P. I. No. 17480)." (*Benton.*)

17482. CUCUMIS MELO.**Winter muskmelon.**

From Samarkand, Turkestan. Received through Mr. Frank Benton, January 26, 1906.

"(No. 24.) Rather large, slightly oval in form, yellow outside with heavy bronze shading; flesh light green, good quality. May be only a better specimen of Nos. 22 and 23 (S. P. I. Nos. 17480 and 17481)." (*Benton.*)

17483 to 17487.

From Hamilton, Canada. Received through John A. Bruce & Co., February 12, 1906.

17483. PISUM ARVENSE.**Field pea.***Golden Vine.***17484. LATHYRUS SATIVUS.****Bitter vetch.***Crass Pea.*

17483 to 17487—Continued.

- 17485.** PISUM ARVENSE. **Field pea.**
White Marrowfat.
- 17486.** PISUM ARVENSE. **Field pea.**
Blackeye Marrowfat.
- 17487.** PISUM ARVENSE. **Field pea.**
Blue Prussian.

17488. PHALARIS CANARIENSIS. Canary grass.

From San Jose, Cal. Received through Braslan Seed Growers' Company, February 10, 1906.

17489. AGROPYRON TENERUM. Slender wheat-grass.

From Brandon, Manitoba. Received through A. E. McKenzie & Co., February 10, 1906.

17490. ANDROPOGON SORGHUM. Sorghum.

From Tyro, Kans. Received through Mr. G. R. Wheeler, February 12, 1906.
Simmon's Cane.

17491. MELILOTUS ALBA. Sweet clover.

From Beloit, Wis. Received through Mr. I. M. Buell, February 12, 1906.

17492 and 17493. VIGNA UNGUICULATA. Cowpea.

From Arlington Farm, Virginia. Crop of 1905.

17492. Grown from Abyssinian seed, S. P. I. No. 11074.

17493. Grown from Abyssinian seed, S. P. I. No. 11091.

17494 and 17495.

From Auckland, New Zealand. Received through the Auckland Department of Agriculture, February 12, 1906.

17494. DANTHONIA SEMIANNULARIS. **Wallaby grass.**

17495. MICROLAENA STIPOIDES. **New Zealand meadow rice-grass.**

17496 and 17497.

From Lausanne, Switzerland. Presented by Prof. G. Martinet, director, Établissement Fédéral d'Essais et de Contrôle de Semences à Lausanne, February 12, 1906.

17496. VICIA GLABRESCENS. **Vetch.**

17497. LATHYRUS HETEROPHYLLUS.

17498. KICKXIA ELASTICA.

From Victoria, Kamerun, German West Africa. Received through the Victoria Agricultural Experiment Station, January 26, 1906.

17499 to 17504. NICOTIANA spp. Tobacco.

From Portici, Italy. Presented by Prof. O. Comes. Received February 9, 1906.

"A collection of varieties of tobacco forming part of the extensive collection made by Professor Comes, author of various works on tobacco, and especially the work enti-

17499 to 17504—Continued.

tled 'The Races of Tobacco.' Imported for breeding experiments in connection with a search for a disease-resistant strain in North Carolina." (*Fairchild.*)

17499. NICOTIANA TABACUM FRUTICOSA.

Karchiaku.

17500. NICOTIANA TABACUM FRUTICOSA.

Doniaku.

17501. NICOTIANA ALATA PERSICA.

Schiraz.

17502. NICOTIANA RUSTICA TEXANA.

Calcutta.

17503. NICOTIANA RUSTICA BRASILIA.

Dzjouchin Rhau.

17504. NICOTIANA RUSTICA BRASILIA.

Veilchen.

17505 and 17506. CITRUS AURANTIUM.**Orange.**

From Shanghai, China. Presented by Rev. J. M. W. Farnham, D. D. Received February 8, 1906.

Orange seeds, as follows:

17505. From Swatow, China. "A very fine loose-skinned variety; lobes separate easily." (*Farnham.*)

17506. From Canton, China. "A better variety of orange than I have ever eaten in the United States or Europe. Close skin, and lobes not separable." (*Farnham.*)

17507. CITRUS AURANTIUM.**Orange.**

From Algiers, Algeria. Presented by Dr. L. Trabut, government botanist. Received February 8, 1906.

"Seeds of the famous orange *Blida*, which, according to Doctor Trabut's label, is an early variety, having large, sweet fruits and reproducing by seeds. The *Blida* orange is one of the best grown in northern Algeria and, as I understand, these seeds are from selected fruits of this variety." (*Swingle.*)

17508. TRIFOLIUM PRATENSE.**Red clover.**

From Lausanne, Switzerland. Presented by Prof. G. Martinet, director, Etablissement Federal D'Essais et de Controle de Semences a Lausanne. Received February 12, 1906.

Selection with yellow grains.

17509. BETA VULGARIS.**Sugar beet.**

From Fairfield, Wash. Received through Mr. E. H. Morrison. Crop of 1905. *Kleinwanzleben.*

17510. QUERCUS CUSPIDATA.

From Yokohama, Japan. Received through Mr. F. N. Meyer from the Yokohama Nursery Company, February 15, 1906.

This is an evergreen oak much used in Japan for hedges, for which it seems admirably suited. Its acorns, although of small size, are of very sweet taste when baked like chestnuts, and when boiled or roasted are regularly sold in Japan for food; not hardy in the northern States.

17511. SECHIAM EDULE.**Chayote.**

From Biloxi, Miss. Presented by Mr. Aristide Hopkins. Received February 15, 1906.

Fruits of a green variety.

17512. PHASEOLUS RADIATUS.**Mung bean.**

From De Quincy, La. Received through Dr. S. A. Knapp, February 16, 1906.
Grown from S. P. I. No. 10527.

17513. ANDROPOGON SORGHUM.**Milo.**

From Memphis, Tenn. Received through Mr. J. E. Bradley, February 16, 1906.
Dwarf.

17514 and 17515.

From Buitenzorg, Java. Presented by Dr. M. Treub, director of the Botanical Gardens. Received February 16, 1906.

Seeds, as follows:

17514. GARCINIA MANGOSTANA.**Mangosteen.****17515. NEPHELIUM LAPPACEUM.****Rambutan.**

Native of south India and Malay islands and furnishes a fruit similar to the Litchi, namely, the *Rambutan* or *Ramboostan* fruit. All species of *Nephelium* seem to require rather a moist, mild, forest clime than great atmospheric heat.

The fruit is of a bright red color, about 2 inches long, of an oval form, and slightly flattened, and covered with long, soft, fleshy spines or thick hair. Like the other *Nepheliums* it contains a pleasant acidulous pulp, very grateful in tropical countries.

17516. ZEA MAYS.**Corn.**

From St. Anthony Park, St. Paul, Minn. Received through the Minnesota Agricultural Experiment Station, February, 1906.

Crosby. Grown in 1905 from S. P. I. No. 13570; selected to ears of plump form with 14 rows and over.

17517. ZEA MAYS.**Corn.**

From Simsbury, Conn. Received through Mr. A. R. Dayton, February, 1906.

Crosby. Grown in 1905 from S. P. I. No. 13570; selected from two-eared stalks.

17518. ZEA MAYS.**Corn.**

From Simsbury, Conn. Received through Mr. A. R. Dayton, February, 1906.

Crosby. Grown in 1905 from S. P. I. No. 13570; selected from compact plants with ears low on stalk.

17519. VIGNA UNGUICULATA.**Cowpea.**

From Richmond, Va. Received through T. W. Wood & Sons, February 16, 1906.

Red Carolina. "One of the surest cropping of cowpeas, yielding well in both wet and dry seasons. The vines are not as long as *Black* and *Red Ripper*, but are thicker and bunchier, completely covering the ground, and can be more easily cut and cured. Does well on nearly all classes of soils, and better than any other sort on stiff clay soils. The long pods contain 18 to 20 peas, and are easier and less expensive to pick than the short-podded sorts. We recommend it strongly, believing that our growers will find in it distinct advantages over other kinds." (*Wood & Sons.*)

17520. GLYCINE HISPIDA.**Soy bean.**

From Richmond, Va. Received through T. W. Wood & Sons, February 16, 1906.

Hollybrook Early. "A particularly valuable strain of soy beans, which matures its crop three weeks earlier than the *Mammoth Yellow* soy, and is consequently better adapted for planting in sections north of Virginia, or for planting late in order to make a crop of shelled beans. The yield from the *Hollybrook Early* soy is very nearly equal to that of the *Mammoth Yellow*, and they are sure to make a crop of beans. The *Mammoth Yellow* soy requires the full growing season to mature its crop, and frequently an early frost will cut short the yield of the crop of beans. There is no such danger with *Hollybrook Early* soys, and they will prove to be a distinct and valuable acquisition." (*Wood & Sons.*)

17521. PASSIFLORA QUADRANGULARIS.**Granadilla.**

From Juarez, Chihuahua, Mexico. Presented by Mr. Elmer Stearns. Received February 15, 1906.

17522. CUCUMIS MELO.**Winter muskmelon.**

From Ispahan, Persia. Received through Mr. Frank Benton, February 14, 1906.

"Bears transportation long distances over bad roads; good quality, very juicy, fairly sweet. Long, oval, light yellow or straw colored outside with rather fine brown netting. Rind thin; flesh light straw colored, with a watery or semitransparent appearance. Ispahan is on a great plateau, 5,400 feet above sea level." (*Benton.*)

17523 and 17524.

From Bagdad, Turkey. Presented by Hon. Rudolph Hurner, United States vice-consul. Received February 8, 1906.

17523. ZEA MAYS.**Corn.**

"*Edreh Scham*" (*Damascus Edreh*). Small, yellow flint corn.

17524. ANDROPOGON SORGHUM.**Sorghum.**

"*Edreh Trak*" (or *Irak*).

17525 to 17527.

From Geneva, Idaho. Received through Mr. F. W. Boehme, February, 1906.

17525. HORDEUM VULGARE.**Barley.**

Beardless.

17526. AVENA SATIVA.**Oat.**

Swedish Select.

17527. AVENA SATIVA.**Oat.**

Sixty-Day.

17528 and 17529.

From Niu-chwang, China. Received from the Chinese magistrate of the Hai-cheng district, through Mr. Thomas Sammons, United States consul-general at Niu-chwang, February 12, 1906.

17528. CANNABIS SATIVA.**Hemp.**

"Manchurian fine thread hemp seed." (*Sammons.*)

17529. ABUTILON AVICENNAE.**China jute.**

"Manchurian coarse rope hemp seed." (*Sammons.*)

17530 to 17533. ARACHIS HYPOGAEA.**Peanut.**

From Mikindani, German East Africa. Presented by Prof. Dr. A. Zimmermann, Biologisch Landwirtschaftliches Institut, Amani, German East Africa. Received February 16, 1906.

No varietal names received.

17534. DOLICHOS ATROPURPUREUS.

From Waterloo, Kans. Received through Mr. J. W. Riggs, February 10, 1906.

17535 to 17537. ANDROPOGON SORGHUM.**Sorghum.**

From Lyallpur, India. Received through Mr. Theodore C. Maller, of Amritsar, India, February 16, 1906.

Sorghum seed, as follows:

17535. *White Juar of Lyallpur.*

17537. *Red Juar of Lyallpur.*

17536. *Sweet Juar of Lyallpur.*

17538 to 17687. ANDROPOGON SORGHUM.**Sorghum.**

From Chillicothe, Tex.

A collection of sorghums grown in 1905 on the Department's experimental farm at Chillicothe, as follows:

17538. *Planter's Friend.* Grown from Agrost. No. 1697, from New South Wales, Australia.

17539. *Planter's Friend.* Grown from Agrost. No. 2119, from Queensland, Australia.

17540. "*S. saccharatum.*" Grown from Agrost. No. 1605, from Sydney, Australia.

17541. *Black-Seeded.* Grown from Agrost. No. 1656, from New South Wales, Australia.

17542. *Black-Seeded.* Grown from Agrost. No. 1694, from New South Wales, Australia.

17543. *Amber.* Grown from Agrost. No. 1695, from New South Wales, Australia.

17544. *Dwarf Amber.* Grown from Agrost. No. 2118, from Queensland, Australia.

17545. *Undendibule.* Grown from Agrost. No. 1752, from Victoria, Australia; first selection.

17546. *Undendibule.* Grown from Agrost. No. 1752, from Victoria, Australia; second selection.

17547. *Orange.* Grown from Agrost. No. 1661, from New South Wales, Australia.

17548. *Orange.* Grown from Agrost. No. 1696, from New South Wales, Australia.

17549. *Orange.* Grown from Agrost. No. 2095, from Congressional seed distribution; first selection.

17550. *Orange.* Grown from Agrost. No. 2095; second selection.

17551. *Orange.* Grown from Agrost. No. 2125, from Queensland, Australia; first selection.

17552. *Orange.* Grown from Agrost. No. 2125; second selection.

17553. *Texas Gooseneck (Texas Seeded "Ribbon Cane").* Grown from Agrost. No. 1812, from the Texas Seed and Floral Company, Dallas, Tex.

17538 to 17687—Continued.

- 17554.** *Samac.* Grown from Agrost. No. 1946, from the Tennessee Experiment Station.
- 17555.** *Folger's Early.* Grown from Agrost. No. 2120, from Queensland, Australia.
- 17556.** *Colman.* Grown from Agrost. No. 2121, from Queensland, Australia.
- 17557.** *Collier.* Grown from Agrost. No. 2124, from Queensland, Australia; first selection.
- 17558.** *Collier.* Grown from Agrost. No. 2124; second selection.
- 17559.** *Russian Sugar.* Grown from Agrost. No. 1581, from Russia.
- 17560.** *Austrian Sugar.* Grown from Agrost. No. 1607, from Vienna.
- 17561.** *Black Sorghum.* Grown from Agrost. No. 1811, from Barbados, West Indies.
- 17562.** *Yellow Milo.* Grown from Agrost. No. 1753, from Victoria, Australia.
- 17563.** *Yellow Milo.* Selected pendent heads grown from Agrost. No. 2522, from Thorburn & Co., New York, N. Y.
- 17564.** *Yellow Milo.* Selected erect heads grown from Agrost. No. 2522.
- 17565.** *Yellow Milo.* Grown from Agrost. No. 2090, from Chillicothe, Tex.
- 17566.** *Red Kafir.* Grown from Agrost. No. 1751, from Victoria, Australia.
- 17567.** *Red Kafir.* Grown from Agrost. No. 2116, from Queensland, Australia.
- 17568.** *Black-Hulled White Kafir.* Grown from Agrost. No. 1749, from Victoria, Australia.
- 17569.** *Black-Hulled White Kafir.* Grown from Agrost. No. 1993, from the Iowa Seed Company, Des Moines, Iowa.
- 17570.** *White Milo.* Grown from Agrost. No. 2115, from Queensland, Australia.
- 17571.** *White-Hulled White Kafir.* Grown from Agrost. No. 2122, from Queensland, Australia.
- 17572.** *Black-Hulled White Kafir.* Grown from Agrost. No. 1754, from Victoria, Australia.
- 17573.** *Dhavla (A).* Grown from S. P. I. No. 14500.
- 17574.** *Kalbondi.* Grown from S. P. I. No. 14508.
- 17575.** *Gare Nasik.* Grown from S. P. I. No. 14516.
- 17576.** *Bile Jura.* Grown from S. P. I. No. 14524.
- 17577.** *Meldani.* Grown from S. P. I. No. 14535.
- 17578.** *Kondi.* Grown from S. P. I. No. 14544.
- 17579.** *Nadyal.* Grown from S. P. I. No. 14583.
- 17580.** *Juari.* Grown from S. P. I. No. 14584.
- 17581.** *White Dumraon.* Grown from S. P. I. No. 14585.
- 17582.** *Gumeri.* Grown from S. P. I. No. 14586; first selection.
- 17583.** *Gumeri.* Grown from S. P. I. No. 14586; second selection.
- 17584.** *Dukri.* Grown from S. P. I. No. 14587.
- 17585.** *Durga.* Grown from S. P. I. No. 14588.

17538 to 17687—Continued.

- 17586. *Bana of Jalaon.* Grown from S. P. I. No. 14589.
- 17587. *Bhanna of Jhansi.* Grown from S. P. I. No. 14590.
- 17588. *Lal.* Grown from S. P. I. No. 14591.
- 17589. *Doliya.* Grown from S. P. I. No. 14593; first selection.
- 17590. *Doliya.* Grown from S. P. I. No. 14593; second selection.
- 17591. *Bania.* Grown from S. P. I. No. 14594.
- 17592. *Laliya.* Grown from S. P. I. No. 14595.
- 17593. *Kombrai.* Grown from S. P. I. No. 14597.
- 17594. *Pyaria Iksari Banda.* Grown from S. P. I. No. 14598.
- 17595. *Iksari Banda.* Grown from S. P. I. No. 14599.
- 17596. *Pyaria.* Grown from S. P. I. No. 14600.
- 17597. *Alapuri.* Grown from S. P. I. No. 14602.
- 17598. *Dulari.* Grown from S. P. I. No. 14603.
- 17599. *Dugadia Zard.* Grown from S. P. I. No. 14604.
- 17600. *Ikdani.* Grown from S. P. I. No. 14605.
- 17601. *Purbi Magha.* Grown from S. P. I. No. 14606.
- 17602. *Country White.* Grown from S. P. I. No. 14607.
- 17603. *Dugadia Safed.* Grown from S. P. I. No. 14608; first selection.
- 17604. *Dugadia Safed.* Grown from S. P. I. No. 14608; second selection.
- 17605. *Jogia.* Grown from S. P. I. No. 14609.
- 17606. *Domni.* Grown from S. P. I. No. 14610.
- 17607. *Chatka.* Grown from S. P. I. No. 14611.
- 17608. *Bangra.* Grown from S. P. I. No. 14612.
- 17609. *Lallu.* Grown from S. P. I. No. 14613; first selection.
- 17610. *Lallu.* Grown from S. P. I. No. 14613; second selection.
- 17611. *Purbi Murabad.* Grown from S. P. I. No. 14617.
- 17612. *Deshi.* Grown from S. P. I. No. 14618.
- 17613. *Ganga Jamni.* Grown from S. P. I. No. 14619.
- 17614. *Bannia Dadri.* Grown from S. P. I. No. 14622.
- 17615. *Red of Ajangarh.* Grown from S. P. I. No. 14626; first selection.
- 17616. *Red of Ajangarh.* Grown from S. P. I. No. 14626; second selection.
- 17617. *Bannia.* Grown from S. P. I. No. 14627.
- 17618. *Jhangaria.* Grown from S. P. I. No. 14631.
- 17619. *Palarhia.* Grown from S. P. I. No. 14634.
- 17620. *Ganga Jali.* Grown from S. P. I. No. 14641.
- 17621. *Lohor.* Grown from S. P. I. No. 14647.
- 17622. *Shalu.* Grown from S. P. I. No. 14666; first selection.
- 17623. *Shalu.* Grown from S. P. I. No. 14666; second selection.
- 17624. *Makchandri.* Grown from S. P. I. No. 14667.
- 17625. *Holgi.* Grown from S. P. I. No. 14668.
- 17626. *Hundi.* Grown from S. P. I. No. 14669.
- 17627. *Kagi Moti.* Grown from S. P. I. No. 14671.

17538 to 17687—Continued.

17628. *Kalboudi*. Grown from S. P. I. No. 14673.
 17629. *Duhar Maski*. Grown from S. P. I. No. 14674.
 17630. *Bendri*. Grown from S. P. I. No. 14675; first selection.
 17631. *Bendri*. Grown from S. P. I. No. 14675; second selection.
 17632. *Guldhavi*. Grown from S. P. I. No. 14676.
 17633. *Lakdi*. Grown from S. P. I. No. 14677.
 17634. *Shalu*. Grown from S. P. I. No. 14678.
 17635. *Gola*. Grown from S. P. I. No. 14680.
 17636. *Khondi Chandor*. Grown from S. P. I. No. 14684; first selection.
 17637. *Khondi Chandor*. Grown from S. P. I. No. 14684; second selection.
 17638. *Khondi Chandor*. Grown from S. P. I. No. 14684; third selection.
 17639. *Dadar*. Grown from S. P. I. No. 14687.
 17640. *Khonde Malegaon*. Grown from S. P. I. No. 14688.
 17641. *Shalu*. Grown from S. P. I. No. 14689.
 17642. *Dagdi*. Grown from S. P. I. No. 14691.
 17643. *Shalu*. Grown from S. P. I. No. 14694.
 17644. *Hundi*. Grown from S. P. I. No. 14697.
 17645. *Waradi Juar*. Grown from S. P. I. No. 14699.
 17646. *Hundi*. Grown from S. P. I. No. 14700.
 17647. *Jondhala*. Grown from S. P. I. No. 14701; first selection.
 17648. *Jondhala*. Grown from S. P. I. No. 14701; second selection.
 17649. *Maldani*. Grown from S. P. I. No. 14702.
 17650. *Tambdi*. Grown from S. P. I. No. 14703.
 17651. *Gudadi*. Grown from S. P. I. No. 14704.
 17652. *Jagadi*. Grown from S. P. I. No. 14705.
 17653. *Dadia*. Grown from S. P. I. No. 14706.
 17654. *Pafaria*. Grown from S. P. I. No. 14707.
 17655. *Deshi Perio*. Grown from S. P. I. No. 14708.
 17656. *Sholapuri*. Grown from S. P. I. No. 14709.
 17657. *Ratadia*. Grown from S. P. I. No. 14713; first selection.
 17658. *Ratadia*. Grown from S. P. I. No. 14713; second selection.
 17659. *Malvan*. Grown from S. P. I. No. 14718.
 17660. *Utarli*. Grown from S. P. I. No. 14719.
 17661. *Sakar Makar*. Grown from S. P. I. No. 14720.
 17662. *Sundhia* (B). Grown from S. P. I. No. 14721.
 17663. *Collier*. Grown from S. P. I. No. 14723.
 17664. *Raj Hansa*. Grown from S. P. I. No. 14724.
 17665. *Imphee*. Grown from S. P. I. No. 14725.
 17666. *Motichur*. Grown from S. P. I. No. 14728.
 17667. *Rati* (A). Grown from S. P. I. No. 14733.
 17668. *Jogadi*. Grown from S. P. I. No. 14734.
 17669. *Kempu Poona*. Grown from S. P. I. No. 14742.
 17670. *Kempu* (A). Grown from S. P. I. No. 14744.

17538 to 17687—Continued.

- 17671.** *Holgi Gola.* Grown from S. P. I. No. 14749.
17672. *Dudhia Mogra.* Grown from S. P. I. No. 14750.
17673. *Tambdi Sholapuri.* Grown from S. P. I. No. 14751.
17674. *Dukri (B).* Grown from S. P. I. No. 14753.
17675. *Holgi Jola.* Grown from S. P. I. No. 14761.
17676. *Chikna.* Grown from S. P. I. No. 14762.
17677. *Maldandi (A) Poona.* Grown from S. P. I. No. 14763.
17678. *Kagi.* Grown from S. P. I. No. 14766.
17679. *Darker.* Grown from S. P. I. No. 14767; first selection.
17680. *Darker.* Grown from S. P. I. No. 14767; second selection.
17681. *Darker (A).* Grown from S. P. I. No. 14768.
17682. *Sundhia Juwar (Poona Farm).* Grown from S. P. I. No. 14769.
17683. *Ulavli.* Grown from S. P. I. No. 14771.
17684. *Kavli.* Grown from S. P. I. No. 14772.
17685. *Charodi (Surat Farm).* Grown from S. P. I. No. 14773.
17686. *Ameria Sundhia (Nadiad Farm).* Grown from S. P. I. No. 14774.
17687. *Farfaria (Nadiad Farm).* Grown from S. P. I. No. 14775.

17688. ANDROPOGON SORGHUM.**Sorghum.**

From Chillicothe, Tex. Received through Mr. E. J. Randel. Crop of 1905.
Sapling.

17689. ANDROPOGON SORGHUM.**Sorghum.**

From Mecca, Cal. Received through Brauchman Brothers. Crop of 1905.
Durra.

17690. ANDROPOGON SORGHUM.**Sorghum.**

From Mountain View, Okla. Received through Mr. James Cummins. Crop of 1905.
Shallu.

17691. ANDROPOGON SORGHUM.**Giant milo (?).**

From Chillicothe, Tex. Received through Mr. A. B. Conner. Crop of 1905.
 Seed of the Giant milo, or possibly a hybrid, collected from plants found growing in several fields.

17692. ZEA MAYS.**Corn.**

From Dallas, Tex. Received through the Texas Seed and Floral Company, February 20, 1906.
Texas Giant Gourd.

17693. VIGNA UNGUICULATA.**Cowpea.**

From Dallas, Tex. Received through the Texas Seed and Floral Company, February 20, 1906.
Cream.

- 17694. AVENA SATIVA. Oat.**
 From Manhattan, Kans. Received through the Agricultural Experiment Station, February 20, 1906.
Sixty-Day.
- 17695. ANDROPOGON SORGHUM. Sorghum.**
 From Waterville, Minn. Received through Mr. Seth H. Kenney, February 20, 1906.
Minnesota Early Amber Cane.
- 17696. PHASEOLUS RADIATUS. Mung bean.**
 From San Jose, Cal. Received through the Braslan Seed Growers Company, February 23, 1906.
- 17697. VIGNA UNGUICULATA. Cowpea.**
 From Richmond, Va. Received through T. W. Wood & Sons, February 23, 1906.
Iron.
- 17698. MEDICAGO SATIVA. Alfalfa.**
 From Chinook, Mont. Received through Mr. Thomas O'Hanlon, February 21, 1906.
- 17699. AGROPYRON OCCIDENTALE. Western wheat-grass.**
 From Harlem, Mont. Received through Mr. Thomas M. Everett, February 21, 1906.
- 17700 and 17701. AVENA SATIVA. Oat.**
 From Richmond, Va. Received through T. W. Wood & Sons, February 23, 1906.
17700. *Appler Rustproof.* **17701.** *Burt.*
- 17702. ANDROPOGON SORGHUM. Sorghum.**
 From Richmond, Va. Received through T. W. Wood & Sons, February 23, 1906.
Early Amber Cane.
- 17703. XANTHOSOMA SAGITTIFOLIUM. Yautia.**
 From Port au Paix, Haiti. Received through Mr. George W. Guldin, February 23, 1906.
- 17704 to 17707. DIOSPYROS KAKI. Japanese persimmon.**
 From Taiku, Korea. Received through Prof. J. G. Jack, of the Arnold Arboretum, Jamaica Plains, Mass., February 26, 1906.
 Cuttings of four varieties of seedless Japanese persimmons.
- 17708. MUSSAENDA FRONDOSA.**
 From Manila, P. I. Received through Mr. W. S. Lyon, of the Bureau of Agriculture, February 26, 1906.
 "A yellow-flowered, ornamental shrub; flowers subtended by single, large, milk-white calycine leaf; very showy." (*Lyon.*)

17709. ORNITHOPUS SATIVUS.**Serradella.**

From Paris, France. Received through Vilmorin-Andrieux & Co., February 26, 1906.

17710 to 17712. ARACHIS HYPOGAEA.**Peanut.**

From Yokohama, Japan. Received through the Yokohama Nursery Company, February 26, 1906.

Seed of three varieties of peanuts grown in Shimosa Province, as follows:

17710. Small variety.

17711. *Hirata*; the best in Japan; large variety.

17712. *Bachigai* (outsider); large variety.

17713 and 17714. COFFEA ARABICA.**Coffee.**

From Harrar, Abyssinia. Received through the Office of Bionomic Investigations, February 26, 1906.

17713. CULTIVATED COFFEE.

17714. WILD COFFEE.

17715 and 17716. AGAVE spp.**Century plant.**

From Washington, D. C. Received through Mr. L. H. Dewey, February, 1906.

Plants, as follows:

17715. AGAVE LECHEGUILLA.

From Mexico.

17716. AGAVE RIGIDA SISALANA.

Sisal.

From the Bahama Islands.

17717. PSOPHOCARPUS TETRAGONOLOBUS.**Seguidillas.**

From Manila, P. I. Presented by Mr. W. S. Lyon, of the Bureau of Agriculture. Received February 26 and April 3, 1906.

"The pods if boiled when exceedingly young and tender taste not unlike asparagus. Vigorous climber, fruiting in three months from the seed and annually from a perennial rootstock in warm climates." (*Lyon.*)

17718 and 17719. VITIS VINIFERA.**Grape.**

From Salonica, Turkey. Received through Rev. J. Henry House, February 15, 1906.

Cuttings, as follows:

17718. *White Kapadjulari.*

17719. *Black Kapadjulari.*

17720. AVENA SATIVA.**Oat.**

From Aberdeen, S. Dak. Received through Mr. Isaac Lincoln, February 28, 1906. *Sixty-Day.*

17721. PAPPOPHORUM NIGRICANS.

From Victoria, Australia. Presented by Prof. Hugh Pye, of the Dookie Agricultural College. Received February 21, 1906.

17722. PHASEOLUS RADIATUS.**Mung bean.**

From Terrell, Tex. Received through W. C. Porter & Co., February 28, 1906. Probably grown from No. 10527.

17723 to 17743.

From China. Received through Mr. F. N. Meyer, March 1, 1906.

A collection of bud sticks, as follows:

17723. PYRUS SINENSIS.**Pear.**

From Matou. "(No. 75.) A fine variety of a melting pear called *Pai li*. This form looks to be different from those sent under Nos. 109 and 120 (S. P. I. No. 16911)." (*Meyer.*)

17724. PYRUS SINENSIS.**Pear.**

From Matou. "(No. 73.) A large variety of the best pear of North China, the so-called Peking pear; in Chinese, *Ya kwam le*. Looks and smells like a quince, but is juicy, melting, and aromatic. May prove to be exceedingly valuable for breeding purposes. The trees grow far more spread out than pears generally do, so they must not be planted too close." (*Meyer.*)

17725. PYRUS SINENSIS.**Pear.**

From Matou. "(No. 74.) A small variety of the best pear of North China. The same description as for No. 73 serves this one, only it is a far smaller variety and, as such, does not appear on the tables of the best hotels in China." (*Meyer.*)

17726. PYRUS SINENSIS.**Pear.**

From Matou. "(No. 76.) A large variety of a juicy pear with nonmelting flesh. A very good keeper of fine appearance; somewhat like our *Kieffer* pear. May be most excellent for canning purposes." (*Meyer.*)

17727. PYRUS sp.**Pear.**

From Tsing-ho-pu. "(No. 125.) A wild pear bearing fruits not larger than a hollyberry. Makes an extraordinarily dense head of branches and may be of use in small parks where small shade trees are wanted." (*Meyer.*)

17728. AMYGDALUS PERSICA.**Peach.**

From Matou. "(No. 82.) A peach described to me by the natives as very large, red meatd, and juicy. The trees are thrifty growers." (*Meyer.*)

17729. AMYGDALUS DAVIDIANA.

From the mountains near Tang-shan, near Peking. "(No. 126.) A variety of thrifty growth, with medium-sized buds. Fruits absolutely inedible, but may prove to be very valuable as a spring flowering shrub. The Chinese cultivate many different varieties as dwarfed specimens and for winter forcing." (*Meyer.*)

17730. AMYGDALUS DAVIDIANA.

From the mountains near Tang-shan, near Peking. "(No. 127.) A variety of rather stunted growth, with large-sized buds. May prove to be a valuable addition to our spring flowering shrubs." (*Meyer.*)

17731. AMYGDALUS DAVIDIANA.

From the mountains near Tang-shan, near Peking. "(No. 129.) A very diminutive form of wild peach. Grows in very rocky places and has small, silvery-white twigs. May be of use as a shrub for rockeries." (*Meyer.*)

17732. PRUNUS sp.**Cherry.**

From Pee-san. "(No. 79.) A bush cherry bearing small, red fruits which ripen here in early June. Is grafted upon wild peach stock low down in the ground." (*Meyer.*)

17733. PRUNUS sp.**Cherry.**

From Pee-san. "(No. 80.) A larger variety than No. 79; otherwise the same description applies to it." (*Meyer.*)

17723 to 17743—Continued.**17734. PISTACIA CHINENSIS.****Pistache.**

From Wei-tsan Mountains. "(Nos. 71 and 90.) The staminate form of the Chinese pistache. A very ornamental tree with graceful, pinnate foliage; grows to very large dimensions." (*Meyer.*)

17735. PISTACIA CHINENSIS.**Pistache.**

From Wei-tsan Mountains. "(Nos. 72 and 89.) The carpellate form of the Chinese pistache. A rather ornamental, small tree; bears heavy bunches of small, scarlet, and purplish colored berries." (*Meyer.*)

17736. AESCULUS CHINENSIS.**Chinese horse-chestnut.**

From Wei-tsan Mountains. "(No. 81.) An ornamental shade tree with somewhat smaller leaves than the ordinary horse-chestnut; when old gets to be very spreading. A very rare tree in north China and entirely new to America." (*Meyer.*)

17737. SALIX sp.**Willow.**

From Scha-ho-schonn. "(Nos. 121 and 122.) A remarkable willow which forms naturally a dense, flat-globular head." (*Meyer.*)

17738. SALIX sp.**Willow.**

From the mountains near Tang-shan, near Peking. "(No. 133.) A willow with bright yellow bark, found in a ravine." (*Meyer.*)

17739. CRATAEGUS PINNATIFIDA.**Hawthorn.**

From Matou. "(No. 131.) A variety differing in growth from those sent under No. 9 (S. P. I. No. 17171.) According to the natives, the fruits are of large size. Grown as an ornamental as well as a fruit tree." (*Meyer.*)

17740. CATALPA BUNGEI.**Catalpa.**

From Fung-tai. "(No. 138.) Probably a different form of this beautiful tree from those sent under No. 13 (S. P. I. No. 16914)." (*Meyer.*)

17741. MALUS sp.**Crab apple.**

From Fung-tai. "(No. 139.) An ornamental, red-flowered shrub, common in Chinese gardens. Probably adapted to dry places." (*Meyer.*)

17742. POPULUS sp.**Poplar.**

From Matou. "(No. 77.) A poplar with small leaves and black-colored bark; grown as a wind-break on very sandy soils." (*Meyer.*)

17743. POPULUS sp.**Poplar.**

From Matou. "(No. 132.) A silvery-barked poplar; grown as a wind-break on very sandy soils." (*Meyer.*)

17744 to 17755.

From Chi-li Province, China. Received at the Plant Introduction Garden, Chico, Cal., through Mr. F. N. Meyer, January 23, 1906.

A miscellaneous collection of roots and bud sticks, as follows:

17744. RUBUS sp.

From Shan-hai-kwan. "(No. 6.) A Rubus found in a semishady, dry situation. At the time of collection no fruits were present." (*Meyer.*)

17745. JUGLANS REGIA.**Persian walnut.**

From Chang-li. "(No. 8.) Scions from a soft-shell walnut tree, which produces, according to the owner, on some branches also paper-shell nuts. Nuts sent to Washington, D. C., under 51a (S. P. I. No. 17945)." (*Meyer.*)

17744 to 17755—Continued.**17746. JUGLANS REGIA.****Persian walnut.**

From Chang-li. "(No. 45.) A paper-shell walnut, of which nuts were sent to Washington, D. C., under No. 36a (S. P. I. No. 17946)." (*Meyer.*)

17747. JUGLANS REGIA.**Persian walnut.**

From Chang-li. "(No. 48.) A large nut with medium soft shell." (*Meyer.*)

17748. FRAXINUS LONGICUSPIS (?)**Ash.**

From Shan-hai-kwan. "(Nos. 11 and 19.) An ash which assumed fine, reddish brown tints at the time of collecting. The leaves are not as large or as pinnate as those of *Fraxinus excelsior*. The tree is decidedly ornamental." (*Meyer.*)

17749. (Undetermined.)

From Shan-hai-kwan. "(No. 41.) A shrubby *Lespedeza*, growing between rocks." (*Meyer.*)

17750. (Undetermined.)

From Shan-hai-kwan. "(No. 43.) A perennial leguminous plant with trifoliate leaves and climbing, semiwoody stems, which are extremely tenacious and are used by the Chinese in tying grapes to trellises and in upholding heavily loaded branches of fruit trees. Is the same as No. 110 (S. P. I. No. 17162)." (*Meyer.*)

17751. CRATAEGUS sp.**Hawthorn.**

From Chang-li. "(No. 42.) The same as No. 10 (S. P. I. No. 17170); used as stock for *Crataegus pinnatifida*." (*Meyer.*)

17752. ZIZYPHUS SATIVA.**Jujube.**

From Chang-li. "(No. 44.) A large variety of the Chinese 'date'; is grown in large orchards by the Chinese and is used either fresh or dried. The trees are planted from 5 to 10 feet apart, and the bark is ringed to make them bear more heavily." (*Meyer.*)

17753. PINUS sp.**Pine.**

From Chang-li. "(No. 57.) Found growing wild in the mountains; is rather stunted when older, but looks extremely characteristic. Used by the natives to plant in graveyards." (*Meyer.*)

17754. DAUCUS CAROTA.**Carrot.**

From Chang-li. "(No. 58.) A blood red carrot; a very sweet variety used cooked and pickled." (*Meyer.*)

17755. VITIS sp.**Grape.**

From Tientsin. "(No. 66.) A light purple grape with rather small berries; otherwise the same description applies to it as to those sent under Nos. 59 and 65 (S. P. I. Nos. 17467 and 17468)." (*Meyer.*)

17756 and 17757. ANDROPOGON SORGHUM.**Sorghum.**

From Lawrence, Kans. Received through F. Barteldes & Co., March 2, 1906.

17756. Colman Orange Cane.**17757. African.**

17758 to 17832.

From Glasnevin, Dublin, Ireland. Received from the Royal Botanic Gardens, March 2, 1906.

A collection, mostly of grass and leguminous forage plants seeds, as follows:

- | | |
|--|---|
| 17758. <i>ERODIUM ABSINTHOIDES</i> . | 17796. <i>AEGILOPS SQUARROSA</i> . |
| 17759. <i>ERODIUM CHEILANTHIFOLIUM</i> . | 17797. <i>AEGILOPS TRIARISTATA</i> . |
| 17760. <i>ERODIUM CHELIDONIFOLIUM</i> . | 17798. <i>AEGILOPS TRIUNCIALIS</i> . |
| 17760a. <i>ERODIUM GRUINUM</i> . | 17799. <i>AGROPYRON ACUTUM</i> . |
| 17761. <i>ERODIUM HYMENODES</i> . | 17800. <i>AGROPYRON MURICATUM</i> . |
| 17762. <i>ERODIUM MANESCAVI</i> . | 17801. <i>ARRHENATHERUM AVENA-CEUM</i> . |
| 17763. <i>ERODIUM PELARGONIFLORUM</i> . | 17802. <i>ARRHENATHERUM AVENA-CEUM BULBOSUM</i> . |
| 17764. <i>ERODIUM SEMENOVII</i> . | 17803. <i>AVENA ARGENTEA</i> . |
| 17765. <i>ERODIUM TRICHOMANIFOLIUM</i> . | 17804. <i>AVENA ATROPURPUREA</i> . |
| 17766. <i>ERODIUM VERBENAEFOLIUM</i> . | 17805. <i>AVENA ORIENTALIS</i> . |
| 17767. <i>GALEGA BILOBA</i> . | 17806. <i>DACTYLIS ALTAICA</i> . |
| 17768. <i>GALEGA PERSICA</i> . | 17807. <i>DACTYLIS GLAUDESCENS</i> . |
| 17769. <i>LATHYRUS ARMITAGEANUS</i> . | 17808. <i>DACTYLIS HISPANICA</i> . |
| 17770. <i>LATHYRUS CRUKSHANKII</i> . | 17809. <i>HIEROCHLOE BOREALIS</i> . |
| 17771. <i>LATHYRUS GORGONI</i> . | 17810. <i>HOLCUS ARGENTEUS</i> . |
| 17772. <i>LATHYRUS LATIFOLIUS</i> . | 17811. <i>PENNISETUM CAUDATUM</i> . |
| 17773. <i>LATHYRUS NISSOLIA</i> . | 17812. <i>PENNISETUM LATIFOLIUM</i> . |
| 17774. <i>LATHYRUS ODORATUS</i> . | 17813. <i>PHALARIS COERULESCENS</i> . |
| 17775. <i>LATHYRUS PYRENAICUS</i> . | 17814. <i>PHALARIS TRIGYNA</i> . |
| 17776. <i>LATHYRUS ROTUNDIFOLIUS</i> . | 17815. <i>PHLEUM ARENARIUM</i> . |
| 17777. <i>LATHYRUS SUBTHORPIL</i> . | 17816. <i>PHLEUM ASPERUM</i> . |
| 17778. <i>MEDICAGO DECANDOLII</i> . | 17817. <i>PHLEUM BOEHRERI</i> . |
| 17779. <i>MEDICAGO ELEGANS</i> . | 17818. <i>PHLEUM INTERMEDIUM</i> . |
| 17780. <i>MEDICAGO INTERTEXTA</i> . | 17819. <i>PHLEUM MICHELII</i> . |
| 17781. <i>MEDICAGO ORBICULARIS</i> . | 17820. <i>PHLEUM PARNASSICUM</i> . |
| 17782. <i>MEDICAGO SCUTELLATA</i> . | 17821. <i>PHLEUM PRATENSE</i> . |
| 17783. <i>MEDICAGO TUBERCULATA</i> . | 17822. <i>PHLEUM TENUE</i> . |
| 17784. <i>MELILOTUS LEUCANTHA</i> . | 17823. <i>BRACHYPODIUM PINNATUM</i> . |
| 17785. <i>ONOBRYCHIS CAPUT-GALLI</i> . | 17824. <i>AGROPYRON REPENS</i> . |
| 17786. <i>ONOBRYCHIS CRISTA-GALLI</i> . | 17825. <i>TRITICUM VULGARE (?)</i> . |
| 17787. <i>SCORPIURUS MURICATUS</i> . | 17826. <i>AGROPYRON CRISTATUM</i> . |
| 17788. <i>SCORPIURUS SUBVILLOSUS</i> . | 17827. <i>AGROPYRON ELYMOIDES</i> . |
| 17789. <i>SCORPIURUS VERMICULATA</i> . | 17828. <i>TRITICUM FIRNUM</i> . |
| 17790. <i>VICIA GRANDIFLORA</i> . | 17829. <i>AGROPYRON REPENS</i> . |
| 17791. <i>VICIA OROBUS</i> . | 17830. <i>TRITICUM TURGIDUM</i> . |
| 17792. <i>VICIA SYLVATICA</i> . | 17831. <i>AGROPYRON REPENS</i> . |
| 17793. <i>AEGILOPS MACROCHAETA</i> . | 17832. <i>DIANTHUS SQUARROSUS</i> . |
| 17794. <i>AEGILOPS MACRURA</i> . | |
| 17795. <i>AEGILOPS OVATA</i> . | |

17833 and 17834. ANDROPOGON SORGHUM.**Sorghum.**

From Des Moines, Iowa. Received through the Iowa Seed Company, March 3, 1906.

Amber Cane.

17835 and 17836. IPOMOEA spp.

From Miami, Fla. Received through the Subtropical Laboratory and Garden (Nos. 185 and 186), March 5, 1906.

17835. Seed of a yellow-flowered variety of *Ipomoea*; origin, Cuba. (No. 186.)

17836. Seed of a purple-flowered variety of *Ipomoea*; origin, Jamaica, British West Indies. (No. 185.)

17837 to 17841.

From New York, N. Y. Received through Henry Nungesser & Co., March 5, 1906.

Grass and forage crop seeds, as follows:

17837. *AGROSTIS ALBA.*

Redtop.

17838. *FESTUCA ELATIOR.*

Tall fescue.

17839. *ORNITHOPUS SATIVUS.*

Serradella.

17840. *TRIFOLIUM PRATENSE.*

Red clover.

17841. *TRIFOLIUM INCARNATUM.*

Crimson clover.

The ordinary or early crimson clover.

17842 to 17954.

From Peking, China. Received through Mr. F. N. Meyer, February 23, 1906.

A collection of seeds, as follows:

17842. *QUERCUS DENTATA.*

Oak.

From Ming Tombs. "(No. 25a.) Seed obtained from the same tree as that sent under No. 12a (S. P. I. No. 18265); secured later in the season, the green leaves having changed to a gorgeous red. Probably the same as No. 24a (S. P. I. No. 17879)." (*Meyer.*) (For description see No. 18265.)

17843. (Undetermined.)

From Peking. "(No. 122a.) Seed of a plant bearing bright scarlet-colored nonedible fruits about the size of an egg." (*Meyer.*)

17844. *PRUNUS ARMENIACA.*

Apricot.

From Peking. "(No. 15a.) Seed of a sweet variety of apricot sold in Peking under the name of 'almonds'; are eaten as dessert and also used in confectionery." (*Meyer.*)

17845. *PRUNUS ARMENIACA.*

Apricot.

From Peking. "(No. 16a.) Seed of a bitter variety of apricot sold in Peking under the name of 'almonds'; used only in confectionery." (*Meyer.*)

17846. *ARISTOLOCHIA* sp.

From Shan-hai-kwan. (No. 134a.)

17847. *PHASEOLUS ANGULARIS.*

Adzuki bean.

From Chang-li. "(No. 37a.) Considered to be the best table bean in Chang-li." (*Meyer.*)

17842 to 17954—Continued.**17848. PHASEOLUS RADIATUS.****Mung bean.**

From Chang-li. "(No. 43a.) A small, edible bean; is grown between rows of sweet potatoes and also cotton; ripens before either of these crops are ready to be harvested." (*Meyer.*)

17849. VIGNA UNGUICULATA.**Cowpea.**

From Tientsin. "(No. 144a.) Used for food; also roasted for confectionery." (*Meyer.*)

17850. PHASEOLUS CALCARATUS.**Bean.**

From Shan-hai-kwan. "(No. 46a.) A small, long bean differing in shape from all other beans; used for food, especially in soups." (*Meyer.*)

17851. PHASEOLUS ANGULARIS.**Adzuki bean.**

From Tientsin. "(No. 143a.) A variety of bean used for food; also for confectionery. The beans are boiled, made in a pulp, sweetened with sugar, and baked in small cakes." (*Meyer.*)

17852. GLYCINE HISPIDA.**Soy bean.**

From Peking. "(No. 17a.) These beans are roasted and sold in Peking as delicatessen." (*Meyer.*)

17853. VICIA FABA.**Broad bean.**

From Shan-hai-kwan. "(No. 45a.) A green variety of broad bean; apparently a different strain." (*Meyer.*)

17854. RICINUS COMMUNIS.**Castor oil plant.**

From Peking. "(No. 61a.) The ordinary castor oil bean. The oil is extracted from the seeds and used in the native lamps. After frost the stalks are uprooted and used for fuel." (*Meyer.*)

17855. VIGNA UNGUICULATA.**Cowpea.**

From Shan-hai-kwan. "(No. 44a.) A light-colored bean used as food; grown between millet and sweet potatoes." (*Meyer.*)

17856. VIGNA UNGUICULATA.**Cowpea.**

From Shan-hai-kwan. "(No. 47a.) A light brown-colored bean used for food in the green and dried state; grown between rows of small millet and sweet potatoes." (*Meyer.*)

17857. GLYCINE HISPIDA.**Soy bean.**

From Shan-hai-kwan. "(No. 42a.) Used for food in Shan-hai-kwan." (*Meyer.*)

17858. PHASEOLUS VULGARIS.**Bean.**

From Tientsin. "(No. 81a.) A fine variety of Red Haricot beans; eaten when green." (*Meyer.*)

17859. PHASEOLUS VULGARIS.**Bean.**

From Peking. "(No. 18a.) *White Haricot.* These are eaten boiled as dry beans, or are used as a vegetable when fresh, and as such they are very fine. Might do well as string beans in the Atlantic States." (*Meyer.*)

17860. VICIA FABA.**Horse bean.**

From Tchang-ping-tcho. "(No. 115a.) A horse bean used for food in north China." (*Meyer.*)

17861. GLYCINE HISPIDA.**Soy bean.**

From Sachon. "(No. 28a.) A small, black soy bean grown for fodder; late variety. An excellent food for stock; must be boiled before being fed." (*Meyer.*)

17842 to 17954—Continued.**17862. GLYCINE HISPIDA.****Soy bean.**

From Tientsin. "(No. 152a.) A fine variety of soy bean used to make bean cheese from." (*Meyer.*)

17863. FAGOPYRUM ESCULENTUM.**Buckwheat.**

From Shan-hai-kwan. "(No. 48a.) A variety of buckwheat sparsely grown around Shan-hai-kwan; used for making bread." (*Meyer.*)

17864. BRASSICA PE-TSAI.**Pe-tsai cabbage.**

From Shan-hai-kwan. "(No. 58a.) An excellent, white, long-headed cabbage, which can be kept in cellars all winter. The plants love a rich, well-worked soil and can not stand drought. The Chinese irrigate them carefully, for the more they are irrigated the larger they grow. Chinese name *Pai tsay*." (*Meyer.*)

17865. BRASSICA PE-TSAI.**Pe-tsai cabbage.**

From Tientsin. "(No. 83a.) A very small variety of green cabbage." (*Meyer.*) Apparently a mixture of several species.

17866. BRASSICA PE-TSAI.**Pe-tsai cabbage.**

From Tchang-ping-tcho. "(No. 80a.) A very heavy, long-headed white cabbage; late variety." (*Meyer.*)

17867. BRASSICA CHINENSIS.**Pak-choi cabbage.**

From Tientsin. "(No. 100a.) A short cabbage of which the midribs of the leaves get to be quite fleshy. Sold in Tientsin, but as yet I have not seen it anywhere else." (*Meyer.*)

17868. BRASSICA PE-TSAI.**Pe-tsai cabbage.**

From Chang-li. "(No. 1a.) A remarkably fine variety of white cabbage; the best I have ever seen. It is a long-headed variety and grows from 2½ to 3 feet high. The taste and smell are entirely different from any other cabbage. A very fine vegetable. Wants careful culture and can not stand drought. Known as *Shantung* cabbage." (*Meyer.*)

17869. BRASSICA PE-TSAI.**Pe-tsai cabbage.**

From Shan-hai-kwan. "(No. 101a.) Sold to me as a *Shantung* cabbage; a very good variety." (*Meyer.*)

17870. DAUCUS CAROTA.**Carrot.**

From Hsuen-hwa-fu. "(No. 30a.) A sweet, light yellow, nearly white carrot. Grows on alkaline soil." (*Meyer.*)

17871. DAUCUS CAROTA.**Carrot.**

From Tientsin. "(No. 82a.) An orange colored, medium short variety of the ordinary carrot; more in favor here than the beet-red variety." (*Meyer.*)

17872. DAUCUS CAROTA.**Carrot.**

From Tchang-ping-tcho. "(No. 66a.) A very sweet, beet-red carrot. Is used boiled as well as pickled. Loves a well-drained soil and does not want to suffer from drought." (*Meyer.*)

17873. CELASTRUS PANICULATUS (?).

From Shan-hai-kwan. "(No. 123a.) A very large variety found growing in the mountains near Shan-hai-kwan." (*Meyer.*)

17874. CELASTRUS PANICULATUS (?).

From Shan-hai-kwan. "(No. 124a.) A very small variety found growing in the mountains near Shan-hai-kwan." (*Meyer.*)

17875. CELTIS sp.

From Tang-san. "(No. 92a.) A rather large-leaved *Celtis*; useful as a small shade tree." (*Meyer.*)

17842 to 17954—Continued.**17876. CASTANEA SATIVA.****Chestnut.**

From Peking. "(No. 33a.) The largest variety to be found on the markets in Peking; said to have come from Chee-san, near Chang-li. The nuts are roasted with sand and an oily substance which bleaches them, and are remarkably sweet. The trees on which they grow are seedlings." (Meyer.)

17877. CASTANEA SATIVA.**Chestnut.**

From Peking. "(No. 34a.) The ordinary Chinese chestnut, sold everywhere in northern China. They are very small, but make up in sweetness what they lack in size. Are roasted the same as No. 33a (S. P. I. No. 17876), and are said to have come from Chee-san, near Chang-li. The trees I saw there grow in sheltered spots and seem to love a rocky soil." (Meyer.)

17878. QUERCUS sp.**Oak.**

From western hills near Peking. "(No. 26a.) A fine oak, resembling a chestnut. The acorns are eagerly collected and used for tanning purposes. Probably not very hardy, as it grows in quite sheltered valleys." (Meyer.)

17879. QUERCUS DENTATA.**Oak.**

From Tang-san. "(No. 24a.) A beautiful, large-leaved oak. The leaves assume gorgeous colors in autumn; a very desirable tree. Grows to medium dimensions." (Meyer.)

17880. ZEA MAYS.**Corn.**

From Pee-san. "(No. 19a.) A very fine strain of corn growing in a rather dry part of the country. This is one of the best varieties I have seen in northern China. The plants grow about six feet high and have uniformly two ears to each stalk." (Meyer.)

17881. ZEA MAYS.**Corn.**

From Shan-hai-kwan. "(No. 20a.) A white-seeded corn growing on stony soil around Shan-hai-kwan, where it gets quite cold." (Meyer.)

17882. CRATAEGUS PINNATIFIDA.**Hawthorn.**

From Chang-li. "(No. 52a.) The largest variety of *Crataegus pinnatifida*. A fine fruit for preserves, and a very ornamental tree; is simply loaded in the fall with red berries and keeps its large, glossy, green leaves till late in autumn." (Meyer.)

17883. CRATAEGUS PINNATIFIDA.**Hawthorn.**

From Chang-li. "(No. 104a.) Fruits of different sizes to show variation." (Meyer.)

17884. DOLICHOS LABLAB.**Hyacinth bean.**

From western hills near Peking. "(No. 96a.) The same as No. 95a (S. P. I. No. 17885), but from a different locality." (Meyer.)

17885. DOLICHOS LABLAB.**Hyacinth bean.**

From Hawai-jou. "(No. 95a.) A bean which is grown around gardens as a windbreak, and at the same time the green beans are used as a vegetable; they are somewhat coarse but do not taste at all bad. The plant is a climber and as such needs supports." (Meyer.)

17886. ELAEAGNUS sp.

From Chang-li. "(No. 120a.) A silvery-leaved *Elaeagnus* which ripens small, red berries in October. Grows from 5 to 6 feet high. Under cultivation it might become denser headed and be an ornamental shrub." (Meyer.)

17887. MALUS sp.**Crab apple.**

From Peking. (Not numbered by Meyer.) "A crab apple sold on the streets in Peking." (Meyer.)

17842 to 17954—Continued.**17888. GLEDITSIA sp.**

From Hwai-lai. "(No. 109a.) A small tree; may be fit for a shade tree. Can apparently stand lots of cold and drought, as I found them growing on the edges of a ravine on the road to Mongolia." (*Meyer.*)

17889. GLEDITSIA sp.

From Wei-tsan Mountains near Peking. "(No. 106a.) An ornamental shade tree, bearing dark-brown pods. Apparently a slow grower." (*Meyer.*)

17890. CORYLUS sp.**Hazelnut.**

From Peking. "(No. 32a.) A small hazelnut said to have come from very far north; bought in Peking." (*Meyer.*)

17891. HUMULUS sp.**Hop.**

From Tientsin. "(No. 136a.) A wild hop found growing around here along banks and in thickets." (*Meyer.*)

17892. ZIZYPHUS SATIVA.**Jujube.**

From Peking. "(No. 14a.) The Chinese collect the fruit and make a paste from it by boiling the fruit and straining the liquid. It is a bad weed that easily overruns dry plains. It grows over the whole Peking city wall and its spines easily break off in one's flesh. To be used for breeding purposes." (*Meyer.*)

17893. JUNIPERUS CHINENSIS.**Chinese juniper.**

From Tang-san. "(No. 71a.) Seeds from a very pyramidal form of the juniper. These are universally used in northern China to plant around graves, and also as windbreaks. They seem to be able to withstand much drought." (*Meyer.*)

17894. KOELREUTERIA PANICULATA.**Varnish tree.**

From Ming Tombs. "(No. 85a.) Seed from the bladderpod tree, varying in looks from the usual type." (*Meyer.*)

17895. BRASSICA OLERACEA.**Kohlrabi.**

From Hsuen-hwa-fu. "(No. 73a.) A very large variety of kohlrabi grown where the soil is strongly alkaline." (*Meyer.*)

17896. CASTANEA SATIVA.**Chestnut.**

From Tientsin. "(No. 146a.) A large variety of chestnut sold on Tientsin market; very sweet when boiled or roasted." (*Meyer.*)

17897. ACER sp.**Maple.**

From Tang-san. "(No. 27a.) A very beautiful maple which grows to be a medium-sized tree, of very characteristic form. The leaves assume gorgeous colors in the fall." (*Meyer.*)

17898. ACER sp.**Maple.**

From Wei-tsan Mountains near Peking. "(No. 67a.) An ornamental, small-leaved maple, growing wild in the mountains." (*Meyer.*)

17899. CHAETOCHELOA ITALICA.**Millet.**

From Chang-li. "(No. 53a.) A small variety of millet sold in Chang-li, where it is ground up and used for food." (*Meyer.*)

17900. CHAETOCHELOA ITALICA.**Millet.**

From Chang-li. (No. 105a.)

17901. CHAETOCHELOA ITALICA.**Millet.**

From Chang-li. "(No. 50a.) A variety of medium-sized millet, growing about 5 feet high; stools out very much and is, consequently, a great straw producer. The seeds are used as food, but are not valued as highly as other millets on account of the difficulty of hulling them." (*Meyer.*)

17842 to 17954—Continued.**17902. AMYGDALUS PERSICA.****Peach.**

From Peking. "(No. 88a.) Seed from fruits, among which were some strange types, eaten in different places in north China." (*Meyer.*)

17903. AMYGDALUS PERSICA.**Peach.**

From Shan-hai-kwan. "(No. 89a.) A hardy variety which can probably be grown very far north." (*Meyer.*)

17904. PERILLA OCYMOIDES.**Perilla.**

From Peking. "(No. 79a.) A plant grown in some localities for the production of oil, which is obtained from the seed." (*Meyer.*)

17905. DIOSPYROS LOTUS.**Persimmon.**

From Chang-li. "(No. 69a.) A long-fruited, wild persimmon. The fruits are small and not borne in such great quantities as No. 57a (S. P. I. No. 17906); otherwise the same description applies to it." (*Meyer.*)

17906. DIOSPYROS LOTUS.**Persimmon.**

From Chang-li. "(No. 57a.) A round-fruited, wild persimmon. The fruits are not larger than a cherry, but are very sweet tasting and the trees are heavily loaded. A valuable acquisition as a fruit and ornamental tree, also as a stock plant for the large, seedless persimmon." (*Meyer.*)

17907. DIOSPYROS LOTUS.**Persimmon.**

From Nankon Pass. "(No. 31a.) Seed of the wild persimmon collected from old trees growing at elevated points and apparently at the northern limit of their kind. To be used as stock for the large, seedless persimmon, and also for its fruit and as an ornamental." (*Meyer.*)

17908. RHAMNUS sp.

From Shan-hai-kwan. "(No. 132a.) A very small, shrubby Rhamnus growing wild in the mountains. Well fit for rockeries and as a very small hedge plant." (*Meyer.*)

17909. RHAMNUS sp.

From Tang-san. "(No. 126a.) A large-leaved, bushy Rhamnus from 3 to 6 feet in height; loaded at time of collection with black berries. Might do well as a hedge plant, as it has long spines and is very dense." (*Meyer.*)

17910. PINUS sp.**Pine.**

From Chang-li. "(No. 129a.) The common pine found growing in Chinese cemeteries." (*Meyer.*)

17911. PINUS BUNGEANA.**Pine.**

From Ming Tombs. (No. 108a.) The same as S. P. I. No. 17912.

17912. PINUS BUNGEANA.**Pine.**

From Wei-tsan Mountains. "(No. 137a.) A very beautiful pine with silvery white bark; a slow grower, but extremely striking when old. The bark peels off in flakes, like the sycamore, but the foliage is not as dense as in most other pines." (*Meyer.*)

17913. PRUNUS sp.**Plum.**

From Peking. "(No. 90a.) Apparently a very late plum; freestone; fruits not very large, yellowish green with a purplish bloom; rather sweet in taste." (*Meyer.*)

17914. ORYZA SATIVA.**Rice.**

From Shan-hai-kwan. "(No. 49a.) A variety of upland rice said to be a softer quality than the one sent under No. 40a (S. P. I. No. 17915)." (*Meyer.*)

17915. ORYZA SATIVA.**Rice.**

From Shan-hai-kwan. "(No. 40a.) An upland rice grown sparingly around here. Should be hardy very far north." (*Meyer.*)

17842 to 17954—Continued.**17916. ORYZA SATIVA.****Rice.**

From Sachon. "(No. 29a.) Bought as an upland rice, but apparently is a lowland variety. Should do well quite far north, as the place where it was raised is about 50 miles north of Peking." (*Meyer.*)

17917. ORYZA SATIVA.**Rice.**

From Chang-li. "(No. 39a.) An upland rice cultivated around Chang-li. Should be hardy pretty far north." (*Meyer.*)

17918. CELASTRUS FLAGELLARIS.

From Wei-tsan Mountains, near Peking. "(No. 68a.) A small, creeping shrub, bearing red, edible berries." (*Meyer.*)

17919. SESAMUM INDICUM.**Sesame.**

From Tientsin. "(No. 149a.) These seeds are universally used throughout China in confectionery and baked on the surface of round cakes, and as such they taste pretty good. The plants seem to like a rather rich soil, and produce many seed pods on one stalk. The Chinese also make an oil out of the seed, in which they fry nearly everything." (*Meyer.*)

17920. ANDROPOGON SORGHUM.**Sorghum.**

From Pee-san. "(No. 21a.) This variety has white seeds and is used for making bread; as such it is more highly esteemed than the brown-colored varieties, which are generally only used as fodder for the domestic animals." (*Meyer.*)

17921. ANDROPOGON SORGHUM.**Sorghum.**

From Pee-san. "(No. 22a.) A variety with dark brown seeds, universally used throughout north China as fodder for domestic animals. The stems of sorghum are used in building houses, the stalks being embedded in the mud walls; also for making fences, baskets, mats, tying and roofing material, and for fuel." (*Meyer.*)

17922. ANDROPOGON SORGHUM.**Sorghum.**

From Pee-san. "(No. 23a.) A variety with light brown seeds, not very much grown. It is used where found as a fodder plant and also for making a brown-colored kind of bread." (*Meyer.*)

17923. ANDROPOGON SORGHUM.**Sorghum.**

From Tientsin. "(No. 151a.) A superior variety of sorghum which grows from 15 to 20 feet in height. The grain is ground, and from the flour a good kind of bread is made; is used also for the same purpose as the one described under No. 22a (S. P. I. No. 17921). In addition to this the leaves are pulled off before they have turned brown, when they make an excellent cattle food, either fresh or dry. The roots are also dug and used as fuel." (*Meyer.*)

17924. SPINACIA OLERACEA.**Spinach.**

From Tchang-ping-tcho. "(No. 55a.) An exceptionally good winter spinach, which, with a little protection from cold, produces greens the greater part of the winter. The seeds should be sown very thinly, as the plants grow rather large." (*Meyer.*)

17925. HELIANTHUS ANNUUS.**Sunflower.**

From western hills, near Peking. "(No. 59a.) The ordinary, single-headed sunflower, used in China in many ways. The leaves are pulled off and fed to domestic animals; the seeds are eaten as delicatessen, and the stalks are used for fuel." (*Meyer.*)

17926. THUYA ORIENTALIS.**Arborvitae.**

From Peking. "(No. 84a.) Seeds collected from old, weather-beaten trees on the grounds of the Temple of Heaven in Peking. Can stand lots of cold and drought." (*Meyer.*)

17842 to 17954—Continued.**17927. NICOTIANA sp.****Tobacco.**

From western hills near Peking. "(No. 62a.) An inferior tobacco much used by the lower classes." (*Meyer.*)

17928. NICOTIANA TABACUM.**Tobacco.**

From Chang-li. "(No. 86a.) A medium quality of tobacco grown around Chang-li." (*Meyer.*)

17929. JUGLANS hyb. (?)**Walnut.**

From Nankon Pass. "(No. 87a.) A very strange walnut. Those with highly undulated surfaces are used as a remedy for stiff fingers, and the smooth ones are eaten. A hard-shelled variety. Probably a hybridization has taken place between *J. mandshurica* and *J. regia sinensis*." (*Meyer.*)

17930. RAPHANUS SATIVUS.**Radish.**

From Chang-li. "(No. 2a.) A giant red radish; flavor not strong. Seems to like a well-drained, sandy soil. Attains a size of from 3 to 7 inches in diameter." (*Meyer.*)

17931. RAPHANUS SATIVUS.**Radish.**

From San-kai-tien. "(No. 76a.) A red radish of elongated form. Looks very nice when exposed for sale." (*Meyer.*)

17932. RAPHANUS SATIVUS.**Radish.**

From Shan-hai-kwan. "(No. 56a.) A radish with a sweet, fresh taste; is very appetizing if cut lengthwise and eaten raw either before or with meals. These seeds have both the green and red varieties among them." (*Meyer.*)

17933. RAPHANUS SATIVUS.**Radish.**

From Shan-hai-kwan. "(No. 60a.) A late variety of a long, white radish; quite sweet and not at all strong when boiled." (*Meyer.*)

17934. RAPHANUS SATIVUS.**Radish.**

From Shan-hai-kwan. "(No. 74a.) A smaller variety than No. 2 (S. P. I. No. 17930); otherwise the same description applies to it." (*Meyer.*)

17935. RAPHANUS SATIVUS.**Radish.**

From San-kai-tien. "(No. 75a.) A very strange variety, the outside looking like a long, green turnip; wine red colored flesh. Is sliced and eaten raw as a relish." (*Meyer.*)

17936. RAPHANUS SATIVUS.**Radish.**

From Shan-hai-kwan. "(No. 77a.) A green variety; very appetizing if sliced and eaten raw." (*Meyer.*)

17937. RAPHANUS SATIVUS.**Radish.**

From Tientsin. "(No. 78a.) The same as No. 77a (S. P. I. No. 17936), but obtained in a different locality." (*Meyer.*)

17938. AMPELOPSIS sp.

From Tientsin. "(No. 70a.) An ornamental vine well fit to cover trellises or verandas; has deeply lacinate, palmate leaves, and bears yellow berries in the fall. Seems to be very hardy and able to withstand droughts." (*Meyer.*)

17939. AMPELOPSIS sp.

From Tientsin. "(No. 93a.) A vine bearing red berries, similar to No. 70a (S. P. I. No. 17938) but more ornamental." (*Meyer.*)

17940. AMPELOPSIS sp.

From Wei-tsan Mountains near Peking. "(No. 113a.) A vine bearing small, white berries; may be fit for covering fences and rough places." (*Meyer.*)

17842 to 17954--Continued.**17941. VITEX sp.**

From Wei-tsan Mountains near Peking. "(No. 116a.) An aromatic plant, the peeled twigs of which are used to make fine baskets, and the flowering tops are dried and used as insect powder." (*Meyer.*)

17942. AMPELOPSIS sp.

From Shan-hai-kwan. "(No. 133a.) A vine with deeply lobed leaves and white berries; may be fit to cover rock fences or waste places." (*Meyer.*)

17943. JUGLANS REGIA.**Persian walnut.**

From Gopo, near Chang-li. "(No. 41a.) A large variety of soft-shelled walnut." (*Meyer.*)

17944. JUGLANS REGIA.**Persian walnut.**

From Peking. "(No. 35a.) A very large walnut bought in Peking." (*Meyer.*)

17945. JUGLANS REGIA.**Persian walnut.**

From Gopo, near Chang-li. "(No. 51a.) A very soft-shelled walnut; can be cracked with the hand. Not a perfect nut, though. These nuts are from one tree, which, according to the owner, produces perfectly shelled nuts on some branches and imperfectly formed ones on other branches." (*Meyer.*)

17946. JUGLANS REGIA.**Persian walnut.**

From Chang-li. "(No. 36a.) This is the genuine paper-shell walnut and as such sells for three times as much money as the hard-shelled varieties. The nuts can be peeled like peanuts. The trees are seedlings and are scattered through the groves." (*Meyer.*)

17947. TRITICUM VULGARE.**Wheat.**

From Chang-li. "(No. 38a.) A sample of the best wheat sold in Chang-li." (*Meyer.*)

17948. ROSA sp.**Rose.**

From Chang-li. "(No. 130a.) A wild rose found growing along earth banks." (*Meyer.*)

17949. WISTARIA CHINENSIS.**Chinese wistaria.**

From Tang-sai. (No. 107a.)

17950. ARTEMISIA ANNUA.**Wormwood.**

From Peking. "(No. 111a.) This is the plant on which the people around here graft their chrysanthemums and on which they do well. The Chinese claim the chrysanthemum does better when grafted than when left on its own roots; they also say the grafted plants bear transplanting and lack of water much the best." (*Meyer.*)

17951. XANTHOXYLUM sp.

From Shan-hai-kwan. "(No. 125a.) A fine-leaved Xanthoxylum growing wild in the mountains near Shan-hai-kwan. Attains a height of from 4 to 5 feet, is rather ornamental, and has a very agreeable odor." (*Meyer.*)

17952. XANTHOXYLUM BUNGEI (?).

From Pee-san. "(No. 128a.) Used as a hedge plant. The seeds and fruit capsules furnish the Chinese with pepper; the fruit is pretty pungent." (*Meyer.*)

17953. BRASSICA PE-TSAI.**Pe-tsai cabbage.**

From Shan-hai-kwan. "(No. 72a.) A long-headed cabbage, late variety. Can be kept all winter in a frost-proof cellar." (*Meyer.*)

17954. CYDONIA JAPONICA.**Japanese quince.**

From Peking. "(No. 145a.) A very fragrant quince used in China to perfume a room. Grows in south China." (*Meyer.*)

17955 to 17958.

From Santiago de las Vegas, Cuba. Received through Prof. C. F. Baker, March 6, 1906.

Seeds, as follows:

17955. *BAUHINIA KRUGII.*

"The finest Bauhinia of the West Indies." (*Baker.*)

17956. *EUGENIA PUNICIFOLIA.*

"An erect, ornamental shrub with fine flowers and fruit." (*Baker.*)

17957. *CANAVALIA* sp.

Knife bean.

"A nonedible, brown variety producing a great vine." (*Baker.*)

17958. *PACHYRRHIZUS ANGULATUS.*

Yam bean.

17959. CLEMATIS sp.

From Hwai-lai, Chi-li Province, China. Received through Mr. F. N. Meyer, February 23, 1906.

"(No. 135a.) A small clematis covering banks along ditches. Its white seed-down makes it appear like snow in the distance; not ornamental." (*Meyer.*)

17960. ARACHIS HYPOGAEA.

Peanut.

From Amani, German East Africa. Received through Dr. A. Zimmermann, February 23, 1906.

Peanuts from Mikindani.

17961. CANNA FLACCIDA.

Canna.

From Oneco, Fla. Received through Reasoner Bros., March 9, 1906.

17962. MISCANTHUS CONDENSATUS.

From Yokohama, Japan. Received through Suzuki & Iida, of New York City, March 6, 1906.

17963. AGROSTIS STOLONIFERA.

Creeping bent-grass.

From New York, N. Y. Received through Henry Nungesser & Co., March 6, 1906.

17964. VITIS MUNSONIANA.

Mustang grape.

From Elliotts Key, Fla. Received through Dr. John Gifford, March 7, 1906.

17965 and 17966.

From Brighton Beach, Wash. Received through Mr. A. B. Leckenby, March 9, 1906.

Plants, as follows:

17965. *FATSIA HORRIDA.*

Devil's-club.

An araliaceous, densely prickly shrub with palmately lobed leaves and racemed or paniced umbels of small, greenish-white flowers.

17966. *LYSICHTUM CAMTSCHATCENSE.*

Skunk cabbage.

A nearly stemless swamp aroid, with large leaves from a thick, horizontal root stock.

17967. BENINCASA CERIFERA.**Wax-gourd.**

From Manila, P. I. Received through Mr. W. S. Lyon, of the Bureau of Agriculture, March 5, 1906.

"Native name *Condol*. Matures fruit in four months from seed. Grown in Philippine Islands only upon trellises. When sliced and steeped over night in lime water and then boiled in a sugar sirup until it candies, it makes a most delicious glacé fruit." (*Lyon*.) (See No. 2936, Inventory No. 7, for description of this plant.)

17968 to 17972. BETA VULGARIS.**Sugar beet.**

From Lyons, N. Y. Received through the Lyons Beet Sugar Company, March 1906.

Sugar-beet seed, as follows:

17968. *Original Kleinwanzleben.*

Grown by Kleinwanzleben Sugar Company, Kleinwanzleben, Germany.

17969. *Schreiber's Specialitaet.*

Grown by G. Schreiber & Sons, Nordhausen, Germany.

17970. *Elite Kleinwanzleben.*

Grown by Dippe Bros., Quedlinberg, Germany.

17971. *Kleinwanzleben.*

Grown by F. Heine & Co., Hadmersleben, Germany.

17972. *Kleinwanzleben.*

Grown by C. Braune & Co., Bundorf, Germany.

17973 and 17974. BETA VULGARIS.**Sugar beet.**

From Lehi, Utah. Received through the Utah Sugar Company, March, 1906.

17973. *Kleinwanzleben.*

Grown by the Utah Sugar Company, Lehi, Utah.

17974. *Kleinwanzleben.*

Grown by the Fremont County Sugar Company, Sugar City, Idaho.

17975. BETA VULGARIS.**Sugar beet.**

From Caro, Mich. Received through the Peninsula Sugar Refining Company, March 10, 1906.

Kleinwanzleben. Grown by Otto Hoerning & Co., Eisleben, Germany.

17976 to 17980. BETA VULGARIS.**Sugar beet.**

From Owosso, Mich. Received through the Owosso Sugar Company, March 12, 1906.

Sugar beet seed, as follows:

17976. *Kleinwanzleben.*

Grown by Henry Mette & Co., Quedlinberg, Germany.

17977. *Kleinwanzleben.*

Grown by Rabbothge & Giesecke, Kleinwanzleben, Germany.

17978. *Kleinwanzleben.*

Grown by Wohanka & Co., Prague, Bohemia.

17979. *Kleinwanzleben.*

Grown by K. W. Kuhn & Co., Maarden, Holland.

17980. *Elite Kleinwanzleben.*

Grown by Otto Bruenstedt, Schladen-im-Harz, Germany.

17981. ASPARAGUS ACUTIFOLIUS.

From Nice, France. Presented by Dr. A. Robertson-Proschowsky. Received March 12, 1906.

"This is an evergreen plant which is found growing wild here, but never in abundance. It grows both in the woods and on sunny slopes; in some places where it is very dry, receiving no rainfall for two or three years. In such places the stems are short and quite leafy, and it is here only that they sometimes, but rarely, produce seeds. In the shade the plants produce stems several meters in length, climbing either shrubs or trees and hanging down the slopes, where they have a very graceful appearance. Young plants are readily transplanted when the roots are still fibrous, but when they become older and the roots are thick and fleshy it is impossible to transplant them. This asparagus in the wild state is quite a delicacy, and although scarce and sparingly found, the young shoots are eagerly sought for." (*Proschowsky.*)

17982 and 17983. NICOTIANA spp.

From Philadelphia, Pa. Received through Henry A. Dreer, Inc., March 5, 1906.

17982. NICOTIANA SANDERAE.

(See S. P. I. No. 17246.)

17983. NICOTIANA SANDERAE *hyb.*

(See S. P. I. No. 17247.)

17984. ANDROPOGON SORGHUM.**Sorghum.**

From Canadian, Tex. Received through Mr. Thomas F. Moody, March 10, 1906.
Sourless.

17985. COLOCASIA sp.**Dasheen.**

From Aguas Buenas, P. R. Received through Mr. A. W. Bowser, March 12, 1906.
Identical with S. P. I. No. 15395.

17986. COLOCASIA sp.**Taro.**

From Georgetown, S. C. Received through Mr. John Tull, March 12, 1906.

"Roots of the so-called *Yellow Tanager* of South Carolina. These roots were grown by me last year on Cat Island from roots given to me by Mr. Alex. Lucas, of Santee, S. C." (*Tull.*)

17987. COLOCASIA sp.**Taro.**

From Georgetown, S. C. Received through Mr. John Tull, March 12, 1906.

"Roots of the so-called *White Tanager* of South Carolina. These were grown by me on Cat Island last year from roots given to me by an old negro (John Huggins) who lives near here. He grows a few every year just for his own use, and has grown them from time immemorial." (*Tull.*)

17988. ARACHIS HYPOGAEA.**Peanut.**

From Yungas Valley, Bolivia. Received through Mr. Arthur L. Jackson, of La Paz, Bolivia, March 12, 1906.

17989. NICOTIANA TOMENTOSA

From Hamburg, Germany. Received through Mr. Albert Schenkel, March, 1906.

17990. CHAMAECYPARIS LAWSONIANA.

From Sacramento, Cal. Presented by Mr. H. A. Alspach. Received March 1, 1906.

This is a native of California and Oregon, where it grows to a height of 200 feet. It is one of the most beautiful conifers, of which about 60 garden forms exist in European nurseries and collections. (For foreign exchange.)

17991. SACCHARUM CILIARE.

From St. Kitts, British West Indies. Presented by Mr. F. R. Shepherd, curator, Botanic Gardens, at the request of Sir Daniel Morris, Commissioner of Agriculture for the West Indies. Received October 27, 1905.

Concerning this plant the following brief notice appeared in the Agricultural News, the fortnightly review of the Imperial Department of Agriculture for the West Indies (Vol. IV, p. 87):

"A number of plants of *Saccharum ciliare* raised from seed received through the Imperial Department of Agriculture from India in May last are growing at the Botanic Station, St. Kitts. These plants, which are now arrowing, appear to withstand drought well, and trials are being made to test their usefulness for fodder purposes. This species may also be suitable for forming ornamental clumps on lawns, similar to pampas grass."

17992. MEDICAGO SATIVA.**Alfalfa.**

From Province of Valencia, Spain. Received through Hon. R. L. Sprague, United States consul, Gibraltar, Spain, March 2, 1906.

"The most vigorous and best quality of alfalfa grown in the Province of Valencia, producing continuous crops the whole year." (*Sprague.*)

17993. PHOENIX DACTYLIFERA.**Date.**

From Nefta, Tunis. Presented by Mr. Louis Grech, through Mr. T. H. Kearney. Received November 1, 1905.

Menakher.

17994. TRITICUM VULGARE.**Wheat.**

From Rieti, Italy. Received through Unione Produttori Grano da Seme, March 14, 1906.

Rieti.

17995. GARCINIA MORELLA.**Gamboge.**

From Kingston, Jamaica, British West Indies. Received through Dr. W. Fawcett, director of Public Gardens, March 15, 1906.

Introduced for the purpose of growing stocks upon which to graft the mangosteen.

17996 to 17998. SECHIU EDULE.**Chayote.**

From Mayaguez, Porto Rico. Received through the Porto Rico Agricultural Experiment Station, February 5 and April 26, 1906.

Fruit of apparently three varieties, as follows:

17996. White.

17998. Large, green.

17997. Small, green.

17999. TRIFOLIUM INCARNATUM.**Crimson clover.**

From Richmond, Va. Received through T. W. Wood & Sons, March 17, 1906.

Late White.

18000. LOLIUM ITALICUM.**Italian rye-grass.**

From New York City, N. Y. Received through Henry Nungesser & Co., March 17, 1906.

18001 to 18118. TRIFOLIUM PRATENSE.**Red clover.**

Received through Mr. Charles J. Brand of this Department and distributed by him in connection with his work on life history, seed production, and change of seed. A series of red clovers of different regional origin, being the first generation from seed of the crop of 1903 which was sown in 1904 and harvested in 1905.

18001 to 18021.

From Shirley, Ill. Received through Mr. Eugene D. Funk, March, 1906.

18022 to 18037.

From Rushville, Ind. Received through Mr. Theodore H. Reed, March, 1906.

18038 to 18054.

From Fayetteville, N. Y. Received through Mr. A. T. Armstrong, March, 1906.

18055 to 18068.

From Mauston, Wis. Received through Mr. J. B. McNown, March, 1906.

18069 to 18082.

From Wapakoneta, Ohio. Received through Mr. John A. Ritchie, March, 1906.

18083 to 18100.

From Fargo, N. Dak. Received through Prof. J. H. Shepperd, March, 1906.

18101 to 18118.

From Carlton, Oreg. Received through Mr. F. J. Canfield, April 21, 1906.

18119. BETA VULGARIS.**Sugar beet.**

From Aschersleben, Germany. Received through the Owosso Sugar Company, Owosso, Mich., March 17, 1906.

Jaensch Vetrica. Grown by Mr. Gustav Jaensch.

18120. PERSEA GRATISSIMA.**Avocado.**

From Bayamon, P. R. Presented by Mr. A. B. Mitchell. Received March 19, 1906.

Mitchell. "A very superior variety. Size, large; color of flesh, dark yellow; flavor, excellent. Base, usually slender. Seed, medium to large." (*Barrett*.)

18121. CUCURBITA PEPO.**Pumpkin.**

From Australia. Presented by Mr. M. Levek, of Washington, D. C. Received March 18, 1906.

Thought by Mr. Levek to be a variety known as *Turk's Crown*.

18122. RICINUS COMMUNIS.**Castor-oil plant.**

From Santiago de las Vegas, Cuba. Received through Prof. C. F. Baker, March 19, 1906.

A large-seeded variety.

18123 to 18130.

From Bathurst, New South Wales. Presented by Prof. R. W. Peacock. Received February 13, 1906.

Samples of various native grass seeds, as follows:

- | | |
|------------------------------------|-------------------------------------|
| 18123. ERAGROSTIS PILOSA. | 18127. PANICUM FLAVIDUM. |
| 18124. ELEUSINE AEGYPTIACA. | 18128. PANICUM PROLUTUM. |
| 18125. DIPLACHNE FUSCA. | 18129. PANICUM DECOMPOSITUM. |
| 18126. DIPLACHNE PEACOCKII. | 18130. ANDROPOGON SERICEUS. |

18131 to 18151.

From Berkeley, Cal. Received through Prof. A. V. Stubenrauch, of the Agricultural Experiment Station, March 6, 1906.

- | | |
|-------------------------------------|--------------------|
| 18131. VICIA NISSOLIANA. | |
| 18132. VICIA ATROPURPUREA. | |
| 18133. VICIA VARIA. | |
| 18134. VICIA SATIVA OBOVATA. | |
| 18135. VICIA PANNONICA. | |
| 18136. VICIA LUTEA. | |
| 18137. VICIA FABA. | Horse bean. |

Black Spanish.

- | | |
|--|--------------------|
| 18138. VICIA SATIVA MACROCARPA. | |
| 18139. VICIA MONANTHOS. | |
| 18140. VICIA MONANTHOS. | |
| 18141. VICIA CALCARATA. | |
| 18142. VICIA FABA. | Horse bean. |
| 18143. VICIA FABA. | Horse bean. |

Winter.

- | |
|--|
| 18144. LATHYRUS TINGITANUS UNIFLORUS. |
| 18145. LATHYRUS TINGITANUS. |
| 18146. LATHYRUS CLYMENUM. |
| 18147. LATHYRUS ANNUUS. |
| 18148. LATHYRUS OCHRUS. |
| 18149. LATHYRUS ARTICULATUS. |
| 18150. LENS NIGRICANS. |
| 18151. TRIGONELLA CORNICULATA. |

18152 to 18155. CHLETOCHLOA ITALICA.

Millet.

From Lawrence, Kans. Received through F. Barteldes & Co., March 20, 1906.

- | |
|------------------------------------|
| 18152. <i>New Siberian.</i> |
| 18153. <i>Hungarian.</i> |
| 18154. <i>German.</i> |
| 18155. Common. |

18156. RICINUS COMMUNIS.

Castor-oil plant.

From Santiago de las Vegas, Cuba. Received through Prof. C. F. Baker, March 20, 1906.

A small-seeded variety.

18157. PISUM SATIVUM.**Pea.**

From Paris, France. Received through Vilmorin-Andrieux & Co., March 20, 1906.

Wax-pod.

18158 and 18159.

From Lausanne, Switzerland. Received through Prof. G. Martinet, March 21, 1906.

18158. LATHYRUS HETEROPHYLLUS.

18159. VICIA VILLOSA GLABRESCENS.

18160 to 18198. ANDROPOGON SORGHUM.**Sorghum.**

From Berlin, Germany. Presented by the Berlin Botanical Museum. Received February 14, 1906.

A collection of African sorghum seed, as follows:

18160. <i>Amphibolus.</i>	18180. <i>Orulifer.</i>
18161. <i>Calcareus.</i>	18181. <i>Orulifer.</i>
18162. <i>Charisianus.</i>	18182. <i>Orulifer.</i>
18163. <i>Charisianus glabrescens.</i>	18183. <i>Orulifer.</i>
18164. <i>Charisianus holstii.</i>	18184. <i>Orulifer.</i>
18165. <i>Colorans.</i>	18185. <i>Orulifer.</i>
18166. <i>Colorans.</i>	18186. <i>Orulifer.</i>
18167. <i>Colorans.</i>	18187. <i>Orulifer.</i>
18168. <i>Elegans.</i>	18188. <i>Orulifer.</i>
18169. <i>Elegans.</i>	18189. <i>Orulifer.</i>
18170. <i>Elegans.</i>	18190. <i>Orulifer.</i>
18171. <i>Inhonestus.</i>	18191. <i>Pendulus.</i>
18172. <i>Kerstingianus typicus.</i>	18192. <i>Rochburghii.</i>
18173. <i>Kerstingianus typicus.</i>	18193. <i>Schumannii.</i>
18174. <i>Kerstingianus sulfureus.</i>	18194. <i>Usaramensis.</i>
18175. <i>Kerstingianus sulfureus.</i>	18195. <i>Ziegleri.</i>
18176. <i>Kerstingianus sulfureus.</i>	18196. <i>Elegans.</i>
18177. <i>Kerstingianus sulfureus.</i>	18197. <i>Orulifer.</i>
18178. <i>Nitens.</i>	18198. <i>Orulifer.</i>
18179. <i>Ondongue.</i>	

18199. ELAEAGNUS hyb.

From Gotha, Fla. Received through Mr. Henry Nehrling, March 22, 1906.

18200 and 18201. ZEA MAYS.**Sweet corn.**

From North Pomfret, Vt. Received through Mr. Stephen Hewitt, March 23, 1906.

Golden Malakhor. Grown from S. P. I. No. 13256.

18200.

Amber-colored ears showing a distinct red striping; originally grown from one ear which was dark colored and very sweet.

18201.

Light amber-colored ears; sweet.

18202. VICIA FULGENS.**Scarlet vetch.**

From Paris, France. Received through Vilmorin-Andrieux & Co., March 23, 1906.

18203. ANDROPOGON SORGHUM.**Sorghum.**

From Dallas, Tex. Received through the Texas Seed and Floral Company, March 23, 1906.

Sumac Cane.

18204 to 18224. XANTHOSOMA spp.**Yautia.**

From Mayaguez, P. R. Received through the Porto Rico Agricultural Experiment Station, March 24, 1906.

A collection of yautia roots, as follows:

18204. *Rollisa.*

18215. *Alocasia Marchallu.*

18205. *Punzera.*

18216. *Jamaica No. 2.*

18206. *Gris Amarilla.*

18217. *Jamaica No. 4.*

18207. *Jamaica No. 1.*

18218. *Jamaica No. 6.*

18208. *Jamaica No. 3.*

18219. *Islena (Ponce).*

18209. *Jamaica No. 5.*

18220. *Gengibrilla.*

18210. *Dominica.*

18221. *Islena (Aponte).*

18211. *Blanca.*

18222. *Orqueta.*

18212. *Prieta.*

18223. *Rollisa Ancha.*

18213. *Amarilla.*

18224. *Jamaica (Trinidad).*

18214. *Guayamera.*

18225. ASPARAGUS ACUTIFOLIUS.

From San Giovanni a Teduccio, Italy. Received through Dammann & Co., March 26, 1906.

Roots imported for use in experiments to create a new hybrid asparagus which will resist the asparagus rust.

18226. HOSACKIA PURSHIANA.**Dakota vetch.**

From Dickinson, Dak. Received through the Dickinson Subexperiment Station, March 26, 1906.

18227. GLYCINE HISPIDA.**Soy bean.**

From Khabarovsk, East Siberia. Received through Director Gagin of the Khabarovsk Experiment Field, March 26, 1906.

Tchernie bobi. "A black variety of *Soja hispida*, which is cultivated in several places in Manchuria and Amur land." (Gagin.)

18228. PUERARIA THUNBERGIANA.**Kudzu.**

From Philadelphia, Pa. Received through H. A. Dreer (Incorporated), March 27, 1906.

(See Nos. 9227 and 9228, Inventory No. 9.)

18229. AVENA SATIVA.**Oat.**

From Augusta, Ga. Received through the N. L. Willet Drug Company, February 1, 1906.

Appler Rustproof. Special selection of seed from No. 17452.

18230. AVENA SATIVA.**Oat.**

From Richmond, Va. Received through T. W. Wood & Sons, January 27, 1906.
Burt. Special selection of seed from No. 17451.

18231. SECHUM EDULE.**Chayote.**

From New Orleans, La. Received through the J. Steckler Seed Company, March, 1906.

18232. CUCUMIS MELO.**Winter muskmelon.**

From Ispahan, Persia. Received through Mr. Frank Benton (No. 33), March 27, 1906.

"Seed of a winter muskmelon grown extensively about Ispahan, Persia. It keeps, if put in a cool, airy place, all winter, and may be used at any time. Bears transportation well; many are taken over rough roads on pack animals two to three hundred miles. Oblong, light yellow, netted finely; flesh light yellow, semitransparent or watery; quite juicy; fair quality. Said to succeed best on slightly alkaline soil." (*Benton.*)

18233. BETA VULGARIS.**Sugar beet.**

From Wellsboro, Ind. Received through the West Michigan Sugar Company, March 27, 1906.

Knauer's Mangold.

18234 and 18235. AMYGDALUS spp.

From Quetta, British India. Presented by Lieut. W. L. Maxwell, One Hundred and Twenty-Seventh Baluchistan Light Infantry. Received March 24, 1906.

18234. AMYGDALUS PERSICA.**Peach.**

Quetta.

18235. AMYGDALUS PERSICA LAEVIS.**Nectarine.**

Quetta.

"These seeds were taken from the best trees in Quetta. Quetta is nearly 6,000 feet high; summer temperature, 100° F. in the shade at times; winter temperature known to drop below zero, and severe frost is known to continue for weeks at a time." (*Maxwell.*)

18236 and 18237. CHENOPODIUM QUINOA.**Quinoa.**

From La Paz, Bolivia. Received through Señor M. V. Ballovia, Ministerio de Colonias y Agricultura, March 24, 1906.

18236. CHENOPODIUM QUINOA.**Quinoa.**

Quinoa amarga or *Common.*

18237. CHENOPODIUM QUINOA.**Quinoa.**

Arrocillo or *Royal.*

(See Nos. 2931, 3073, and 3074, Inventory No. 7.)

18238 to 18240.

From Chaman, Baluchistan. Presented by Lieut. W. L. Maxwell, One Hundred and Twenty-Seventh Baluchistan Light Infantry. Received March 29, 1906.

Plants and cuttings, as follows:

18238. AMYGDALUS COMMUNIS.**Almond.****18239. AMYGDALUS PERSICA.****Peach.****18240. PUNICA GRANATUM.****Pomegranate.**

18241. VICIA FABA.**Broad bean.**

From Buenos Ayres, Argentina. Presented by Mr. H. B. Vannote, 11 and 13 Vandewater street, New York, N. Y. Received March 26, 1906.

18242 and 18243. PRUNUS spp.**Cherry.**

From Dreshertown, Pa. Received through Thomas Meehan & Sons, March 31, 1906.

Trees to be used as stocks upon which to bud Japanese flowering cherries, as follows:

18242. PRUNUS AVIUM.**Mazzard cherry.****18243. PRUNUS MAHALEB.****Mahaleb cherry.****18244. AGAVE RIGIDA SISALANA.****Sisal.**

From Miami, Fla. Collected by Mr. L. H. Dewey, March 8 and 14, 1906. Received March 31, 1906.

Bulbils secured for introduction into Porto Rico.

18245 and 18246. AVENA SATIVA.**Oat.**

From Örebro, Sweden. Received through C. A. Hagendahl's Son, March 28, 1906.

18245. White.**18246. Black.****18247. MEDICAGO SATIVA.****Alfalfa.**

From Milwaukee, Wis. Received through the Wernich Seed Company, March 29, 1906.

Turkestan.

18248 to 18255. SOLANUM TUBEROSUM.**Potato.**

From La Paz, Bolivia. Received through Señor M. V. Ballovia, Ministerio de Colonias y Agricultura, March 24, 1906.

18248. Ymille. Raised in La Paz.**18249. Sicha.** Raised at the foot of the Sub-Andine chains.**18250. Phureja.** Raised on the table-lands.**18251. Luqui.** Raised on the table-lands.**18252. Queni.** Raised in La Paz.**18253. Apharu.** Raised on the table-land of Bolivia.**18254. Mondo.** Raised on the table-lands.**18255. Khati.** Raised in La Paz.**18256 to 18277.**

From Peking, China. Received at the Plant Introduction Gardens, Chico, Cal., through Mr. F. N. Meyer, February 26 and 27, 1906.

Seeds and cuttings of Chinese plants, the seeds indicated by the letter "a" following the number, as follows:

18256. JUGLANS REGIA.**Persian walnut.**

From Peking. "(No. 3a.) A very large, hard-shelled variety said to have come from the western mountains, where it gets quite cold." (*Meyer.*)

18257. JUGLANS REGIA.**Persian walnut.**

From Peking. "(No. 4a.) A hard-shelled, sweet variety said to have come from the mountains 40 miles north of Peking; will probably prove hardy quite far north." (*Meyer.*)

18256 to 18277—Continued.**18258. GLYCINE HISPIDA.****Soy bean.**

From Pee-san. "(No. 5a.) This soy bean is extensively cultivated in the mountains north of Peking and is highly esteemed for human food; requires but little irrigation, and is well worth trying in the arid West." (*Meyer.*)

18259. GLYCINE HISPIDA.**Soy bean.**

From Tschang-ping-tsu. "(No. 6a.) This bean is grown in the northern country as a nitrogen-supplying crop with sorghum, corn, or millet; does not scatter much when ripe, but seems to be late in ripening." (*Meyer.*)

18260. PRUNUS ARMENIACA.**Apricot.**

From Peking. "(No. 7a.) The so-called Chinese almond, but it is really a sweet-kerneled apricot. It is considered a fine little nut by the Chinese, who eat them salted after having them soaked in water to get rid of the skin." (*Meyer.*)

18261. PRUNUS ARMENIACA.**Apricot.**

From Peking. "(No. 8a.) The same as No. 7a (S. P. I. No. 18260), but inferior in quality; both are probably the same plant. They are said to be a special strain of apricots, being grown only for their seeds." (*Meyer.*)

18262. AMYGDALUS PERSICA.**Peach.**

From Peking. "(No. 9a.) Seeds collected from a tree growing in the German Legation grounds at Peking. This tree, which is about 40 feet high, is a most heavy bearer and looks like a remarkably thrifty peach tree. Its leaves are much darker green than those of the cultivated ones. I was told that it is a fine ornamental tree in the spring, being one sheet of rose-colored blossoms." (*Meyer.*)

18263. JUGLANS REGIA.**Persian walnut.**

From Tientsin. "(No. 10a.) A small variety bought in Tientsin. May prove to be very hardy, as the nuts are small and hard." (*Meyer.*)

18264. XANTHOCERAS SORBIFOLIA.

From Wei-tsan Mountains. "(No. 11a.) A small ornamental tree belonging to the horse-chestnut family. Is very well fit for a solitary lawn tree in a small garden, as it grows only to a small size and makes a dense head of foliage." (*Meyer.*)

18265. QUERCUS DENTATA.**Oak.**

From Ming Tombs, north of Peking. "(No. 12a.) This oak attains a medium size, has very large, dark green leaves, and is well worth growing; looks quite different from other oaks. Collected on the grounds of the Ming Tombs, 30 miles north of Peking, where it gets extremely cold. The trees will probably prove hardy quite far north." (*Meyer.*)

18266. DIOSPYROS LOTUS.**Persimmon.**

From Pee-san. "(No. 13a.) A small persimmon used as stock for the seedless one." (*Meyer.*)

18267. CATALPA BUNGEI.**Catalpa.**

From Wei-tsan Mountains. "(No. 78.) Young trees of which the parents have grown to a very large size in an old temple garden. This tree is one of the finest flowering trees in the world." (*Meyer.*)

18268. TAMARIX sp.

From Wei-tsan Mountains. "(No. 83.) A very graceful bush, suitable for planting along the water's edge." (*Meyer.*)

18269. POPULUS sp.**Poplar.**

From Wei-tsan Mountains. "(No. 84.) This poplar is often found growing in old temple gardens; it has whitish bark and attains a very large size. Probably the same as No. 15 (S. P. I. No. 16915)." (*Meyer.*)

18256 to 18277—Continued.**18270. JASMINUM NUDIFLORUM.****Jasmine.**

From Wei-tsan Mountains. "(No. 85.) A jasmine with green stems and yellow flowers, adapted for terraces and walls." (*Meyer.*)

18271. LYCIUM sp.**Matrimony vine.**

From Palitswang. "(No. 86.) A matrimony vine which is trained on one stem with all the small branches drooping down like a weeping tree; is loaded in the fall with red berries." (*Meyer.*)

18272. PISTACIA CHINENSIS.**Pistache.**

From Wei-tsan Mountains. "(No. 89.) The carpellate form of the Chinese pistache. A rather ornamental, small tree; bears heavy bunches of small, scarlet-purplish-colored berries." (*Meyer.*)

18273. PISTACIA CHINENSIS.**Pistache.**

From Wei-tsan Mountains. "(No. 90.) The staminate form of the Chinese pistache. A very ornamental tree with graceful, pinnate foliage; grows to very large dimensions." (*Meyer.*)

18274. POPULUS sp.**Poplar.**

From the mountains near Fangshan. "(No. 134.) A poplar found growing in a ravine; probably a tall-growing variety." (*Meyer.*)

18275. MORUS ALBA.**Mulberry.**

From the mountains near Fangshan. "(No. 135.) Tall sprouts found growing by the roadside; may be a new kind." (*Meyer.*)

18276. (Undetermined.)

From the mountains near Fangshan. "(No. 136.) Cuttings of a semi-climbing, low shrub." (*Meyer.*)

18277. KOELREUTERIA PANICULATA.**Varnish tree.**

From Wei-tsan Mountains. (No. 137.)

18278 to 18293.

From Peking, China. Collected by Mr. F. N. Meyer and sent direct to the Arnold Arboretum, Jamaica Plains, Mass. Received during the winter of 1905-6.

Cuttings of Chinese plants, as follows:

18278. EUONYMUS sp.

From Shan-hai-kwan. "(No. 4.) A low-growing shrub with corky wings on its branches; found in semishady situations." (*Meyer.*)

18279. (Undetermined.)

From Shan-hai-kwan. "(No. 16.) A low, spreading bush with edible red berries; grows between rocks and in sunny as well as shady situations." (*Meyer.*)

18280. AMPELOPSIS sp.

From Shan-hai-kwan. (No. 17.)

18281. AMPELOPSIS sp.

From Chang-li. (No. 18.)

18282. PRUNUS sp.

From Shan-hai-kwan. (No. 51.)

18283. SPIRAEA sp.

From Shan-hai-kwan. "(No. 20.) A small, shrubby *Spiraea* resembling *S. thunbergii*; found growing between rocks and exposed places." (*Meyer.*)

18284. AMPELOPSIS sp.

From Chang-li. (No. 21.)

18278 to 18293—Continued.

18285. ACTINIDIA sp. (?)

From Hwai-jou. (No. 22.)

18286. EUONYMUS sp.

From Hwai-jou. "(No. 24.) A very striking *Euonymus* with red leaf tops, resembling *E. bungeanus* but bearing a much larger quantity of fruit." (*Meyer.*)

18287 to 18289. (Undetermined.)

From Shan-hai-kwan. (Nos. 52 to 54.). Cuttings of unidentified shrubs.

18290. PRUNUS ARMENIACA.

Apricot.

From Shan-hai-kwan. "(No. 55.) A wild apricot growing in a ravine near an old temple." (*Meyer.*)

18291. SPIRAEA sp. (?)

From Shan-hai-kwan. "(No. 56.) Found growing between the rocks in the mountains near Shan-hai-kwan." (*Meyer.*)

18292. AMPELOPSIS sp.

From Chang-li. "(No. 99.) A vine growing on rocky places in the mountains; has deeply lobed leaves and white berries." (*Meyer.*)

18293. AMPELOPSIS sp.

From Chang-li. "(No. 100.) A vine resembling *A. vetchii*, but with both entire and three-lobed leaves; assumes beautiful fall colors and though small and apparently tender is well worth trying." (*Meyer.*)

18294 to 18296.

From Peradeniya, Ceylon. Received through J. C. Willis, director of Royal Botanic Gardens, February 26, 1906.

18294. CROTALARIA sp.

Imported for experimental purposes in connection with cover crops for tea and coffee plantations.

18295 and 18296. ARACHIS HYPOGAEA.

Peanut.

18295. *Mauritius.*

18296. (Unnamed.)

18297 and 18298. IPOMOEA BATATAS.

Sweet potato.

From Kingston, Jamaica, British West Indies. Presented by Dr. William Fawcett, director of Hope Gardens. Received March 29, 1906.

"Tubers of the two varieties of white-skinned potato which thrive best here." (*Fawcett.*)

18297. *John Barnett.*

18298. *Law.*

18299. HUMULUS LUPULUS.

Hop.

From North Yakima, Wash. Presented by Mr. H. B. Scudder. Received February, 1906.

Semsch. Seeds produced on vine of S. P. I. No. 5787, in 1905. "Probably these seeds were results of pollination with pollen from the male plants of the common Yakima hop. They should be planted for selection of the best seedlings." (*Fairchild.*)

18300 and 18301. CANNA spp.

Canna.

From Palermo, Sicily. Presented by Prof. Dr. A. Borzi, director of the Botanic Gardens. Received March 30, 1906.

18300. CANNA INDICA.

18301. CANNA IRIDIFLORA.

18302. ZEA MAYS.**Corn.**

From Callao, Peru. Presented by Mr. C. B. Cisneros. Received March 12, 1906.

18303 to 18309.

From Teheran, Persia. Presented by Mr. John Tyler, United States vice-consul-general. Received March 23, 1906.

Seeds, as follows:

18303. CUCUMIS MELO.**Muskmelon.**

A white-skinned variety.

18304. CUCUMIS MELO.**Muskmelon.**

Kharbuzzah. "This is thought to be a corruption of *khar poozah*, *khar* meaning ass and *poozah* snout or nose, possibly on account of its oblong shape. The highest quality of this kind is produced at a village 16 miles north of Ispahan, called Gurg Ab (Wolf Water), being irrigated with water impregnated with alkaline element-. The flavor is agreeably sweet and pleasant, and approved by almost every individual taste. When ripe, however, on account of the delicacy of the texture of the skin and the crispness of the inner substance it can not be transported without damage from the place where it is grown. It is said that the vibration caused to the ground by a horse cantering within a few yards will split it up, and that to pierce it with a pin is sufficient to make a circle of cracks. Such as are brought to Teheran, and those taken to towns nearer the area of growth, are cut before they are ripe and consequently lose much of their delicacy of flavor. The principal supply for the Teheran market is produced from 12 to 30 miles away, and the fruits are of various qualities, according to the soil and water supply. None are grown in the immediate vicinity of the city. The color of the *Kharbuzzah* in the best qualities is a pale yellow, but there are some nearly white or of a cream color." (Tyler.)

18305. CUCUMIS MELO.**Muskmelon.**

Tilabee (Desired). "In shape a spheroid, of a greenish tinge both inside and out, although some are inclined to yellow. When good, their flavor is pleasant and rather sweet. If, however, they are deficient in sweetness, sugar may be added with advantage. In this they differ from the *Kharbuzzah*, which is not improved by sugar; in fact, many people eat it with pepper and salt. Their average weight is from 4 to 5 pounds, and I do not think that I have ever seen one that exceeded a batman (6½ pounds)." (Tyler.)

18306. CUCUMIS MELO.**Muskmelon.**

Garmack (Little heat). "This variety resembles in shape, size, and flavor, though not so sweet, the *Tilabee*. It is less delicate in texture, and if of a poor quality is not much better than a Swede turnip; but as it is the first to come to market it finds considerable favor. If, however, it lacks sweetness its flavor coalesces very well with pounded sugar." (Tyler.)

18307. CUCUMIS SATIVUS.**Cucumber.**

Persian Khear. "A smooth-skinned variety about 5 or 6 inches in length, and the larger 6 or 7 inches in circumference. They are crisp in texture and pleasant to the taste. I think they are a little sweeter than ours, and consequently preferred by the natives. These plants, both melons and cucumbers, are planted on the margin of a trench with a bank about 4 feet wide when quite dry for the plant to lie upon, for if the fruit comes in touch with the irrigation water it brings on the rot." (Tyler.)

18308. CITRULLUS VULGARIS.**Watermelon.**

Andwānah. "Probably a corruption of *Hind-danch*, meaning Indian grain or seed, partially confirming the common belief that it was originally brought from India, although it has been extensively cultivated in Persia for centuries. In some districts of eastern Persia it attains an immense size, weighing upward of 100 pounds, but in Teheran it rarely exceeds a third of that weight. Being very cheap in price, it is looked upon as a generous addition to the diet of the poor." (Tyler.)

18303 to 18309—Continued.**18309.** ANDROPOGON SORGHUM.**Sorghum.**

(No data.)

18310. PHASEOLUS MAX.**Mung bean.**

From Barbados, British West Indies. Presented by Hon. D. Morris, Commissioner of Agriculture for the West Indies. Received April 6, 1906.

*Woolly Pyrol.***18311 to 18315. ARACHIS HYPOGAEA.****Peanut.**

From Peradeniya, Ceylon. Presented by Mr. J. C. Willis, director of Royal Botanic Gardens. Received April 6, 1906.

18311. *Tanjore.***18314.** *Barbados.***18312.** *Mauritius.***18315.** *Brazil.***18313.** *Pondicherry.***18316 to 18318. DIOSCOREA spp.****Yam.**

From Mayaguez, P. R. Presented by the Agricultural Experiment Station. Received April 4, 1906.

18316. DIOSCOREA ACULEATA GUINEA. **18318.** DIOSCOREA TRIFIDA.**18317.** DIOSCOREA TRIFIDA.

A purple variety.

A white variety.

18319 and 18320.

From Manila, P. I. Presented by Mr. William S. Lyon, horticulturist, Bureau of Agriculture. Received April 3, 1906.

18319. XANTHOSOMA sp.**Yautia.**

"Locally known as *Gabe de China*. Chief distinction seems to be in the size of the main rootstock, which grows very large. Grown alongside of introduced *Xanthosoma*, it made in eight months a main rootstock as large and half again, weighing, when green, nearly 2 pounds." (*Lyon.*)

18320. COLOCASIA sp.Most common *Gabe* of the Philippine Islands.**18321. CANAVALIA ENSIFORMIS.****Sword bean.**

From Mayaguez, P. R. Presented by the Agricultural Experiment Station. Received March 27, 1906.

18322 and 18323. SACCHARUM OFFICINARUM.**Sugar cane.**

From Cienfuegos, Cuba. Presented by Dr. Robert M. Grey, Harvard Botanical Station, Central Soledad. Received March 27, 1906.

Samples of each of the following hand-fertilized sugar cane seed:

18322. *Crystallina* × *Crystallina*.**18323.** *Crystallina* (female) × *Java seedling No. 51* (male).**18324. LILIUM PHILIPPINENSE.****Lily.**

From Thetford, Vt. Received through Mr. George S. Worcester, April 10, 1906.

18325. PELTANDRA SAGITTAEFOLIA.**Wampee.**

From Cat Island, South Carolina. Received through Mr. John Tull, April 9, 1906.

"The roots are extensively eaten by the colored natives." (*Tull.*)

18326. ANDROPOGON SORGHUM.**Sorghum.**

From Bombay Presidency, India. Presented by Prof. G. A. Gamnie, economic botanist, Ganeshkhind Botanical Gardens, Kirkee, Poona, India. Received April 9, 1906.

"Seed of a dwarf variety of sorghum cultivated in the Punch Mahals District of the Bombay Presidency. It is locally known by the name of *Rátádía* and grows to the height of $2\frac{1}{2}$ to $3\frac{1}{2}$ feet." (*Gamnie.*)

18327. POA TRIVIALIS.**Rough-stalked meadow grass.**

From Paris, France. Received through Vilmorin-Andrieux & Co., April 7, 1906.

18328. CUCURBITA MELANOSPERMA.**Ecuador melon.**

From Quito, Ecuador. Presented by Mr. S. Ordonez M. Received April 9, 1906.

"This plant is native to this country, where it is cultivated quite extensively and used for food for man as well as for stock. Although a perennial, it is more commonly treated as an annual and planted with corn. It is also planted along walls and at the foot of trees, upon which it will climb and produce melons continuously. The plant will not endure severe frost, and grows where the temperature ranges from 14° to 25° C.

"When used as human food the melon, as long as it is so soft that a finger nail can be driven into the shell, is simply cooked and made into different dishes with butter and salt; when ripe it is eaten cooked, with milk added at the table. For stock it is used ripe and simply cut to pieces; when cooked, however, it is far better, especially for stock and milch cows.

"The melons average 20 to 30 pounds each. The pulp is white and contains sugar and some starch. When completely ripe the shell is very hard and the seeds black, giving the melons much the appearance of a watermelon. The ripe melons can easily be kept a year in a dry and ventilated place, this condition making them valuable for winter feed. There are two varieties—the white-shelled and the green and white striped. These seeds are of the latter variety." (*S. Ordonez M.*)

18329 to 18331.

From Manila, P. I. Presented by Mr. William S. Lyon, horticulturist, Bureau of Agriculture. Received April 3, 1906.

18329. CANAVALLIA ENSIFORMIS.**Knife bean.**

"*'Marautong'* of the Pampangans. The young and tender pods make an excellent snap bean, and the green as well as the fully ripe seeds are a good substitute for Lima or Haricot beans. This variety, while prostrate and rambling, is distinctively nontwining. It makes pods in two months and matures seeds in four months from planting." (*Lyon.*)

18330. CROTALARIA JUNCSEA.**Sunn hemp.**

"This requires rich soil, abundant moisture, and close planting to produce long fiber. If planted wide and kept pinched it becomes very floriferous and an ornamental acquisition to the garden." (*Lyon.*)

18331. PACHYRHIZUS ANGULATUS.**Yam bean.****18332. BETA VULGARIS.****Sugar beet.**

From Raunitz, near Wettin, Germany. Received from Mr. G. Wesche, through Mr. E. Nettwall, of Prague, Bohemia, April 11, 1906.

Wesche's Ertragreichste, or Richest in Yield.

18333. EUTREMA WASABI.**Japanese horse-radish.**

From Yokohama, Japan. Received through the Yokohama Nursery Company, April 11, 1906.

(For description see No. 9891, Inventory No. 10.)

18334 to 18337. ARACHIS HYPOGAEA.**Peanut.**

From Suffolk, Va. Received through the Suffolk Peanut Company, April 13, 1906.

A collection of peanuts obtained for foreign exchange, as follows:

18334. *Virginia.*

18336. *Carolina.*

18335. *Bunch.*

18337. *Spanish.*

18338. VICIA SATIVA.**Common vetch.**

From Svalöf, Sweden. Received through Allmänna Svenska Utsädesaktiebolaget, April 13, 1906.

18339. HEDYSARUM SIBIRICUM.

From Groningen, Holland. Presented by the Jardin Botanique de Groningen. Received April 12, 1906.

18340. VICIA FABA.**Broad bean.**

From London, England. Presented by Mr. S. E. Wynne. Received April 14, 1906.

Harlington White Windsor. "To grow: Plant in good, strong, rich soil in January or February for main crop, and from February to May for successive crops. Plant in rows 2 feet to 30 inches apart; when the plants are about 30 inches high cut off the tops; they need no staking. Gather the pods when young, when the seeds are not over three-fourths inch in length.

"To cook: Use plenty of water, adding a heaped tablespoonful of salt to each half gallon. Shell the beans, put them into boiling water, and boil rapidly until tender—about fifteen minutes for very young beans. Drain them thoroughly, and serve quite separately, but with a sauceboat of parsley sauce as an accompaniment. The beans are excellent with boiled bacon, but they must be cooked alone, never with the meat. If very young they should be cooked fifteen minutes; if older, twenty to twenty-five minutes, but do not overcook them. Half a peck of the pods should yield a good dish. In England they are in season in July and August.

"Average cost, 6s. per peck." (*Wynne.*)

18341. CASTANEA SATIVA.**Chestnut.**

From Yokohama, Japan. Received through the Yokohama Nursery Company, April 14, 1906.

18342. SOLANUM JAMESII.

From Grand Island, Nebr. Presented by Mr. E. Corbin. Received April 17, 1906.

(See No. 10473, Inventory No. 11.)

18343 to 18345. ANDROPOGON SORGHUM.

From Lawrence, Kans. Received through F. Barteldes & Co., April 17, 1906.

18343. *Jerusalem corn sorghum.*

18345. *Yellow milo.*

18344. *Red kafir corn.*

18346 to 18357.

From Gatton, Queensland, Australia. Presented by Prof. John Mahon, principal of the Queensland Agricultural College. Received April 18, 1906.

- | | |
|---------------------------------------|---|
| 18346. ANDROPOGON SERICEUS. | 18352. ERAGROSTIS BROWNEI. |
| 18347. ANDROPOGON INTERMEDIUS. | 18353. ERIOCHLOA PUNCTATA. |
| 18348. ANTHISTIRIA CILIATA. | 18354. ISCHAEMUM PECTINATUM. |
| 18349. CHLORIS DIVARICATA. | 18355. PANICUM DECOMPOSITUM. |
| 18350. CHLORIS TRUNCATA. | 18356. PANICUM DIVARICATISSIMUM. |
| 18351. CHRYSOPOGON PARVIFLORA. | 18357. ANDROPOGON AUSTRALIS. |

18358 to 18381.

From Hanatote, Ugo, Japan. Presented by Mr. S. Nakagawa, Riku-u Agricultural Experiment Station. Received April 12, 1906.

Seeds, as follows:

- | | |
|---------------------------------------|--|
| 18358. BRACHYPODIUM JAPONICUM. | 18371. LOTUS CORNICULATUS JAPONICUS. |
| 18359. BRACHYPODIUM JAPONICUM. | |
| 18360. BROMUS UNIOLOIDES. | 18372. MISCANTHUS SINENSIS. |
| 18361. CASSIA MIMOSOIDES. | 18373. PASPALUM THUNBERGII. |
| 18362. COIX LACRYMA-JOBI. | 18374. PENNISETUM JAPONICUM. |
| 18363. DESMODIUM GARDNERI. | 18375. CHAETOCCHLOA GLAUCA. |
| 18364. ELEUSINE CORACANA. | 18376. CHAETOCCHLOA PACHYSTACHYA. |
| 18365. ERAGROSTIS FERRUGINEA. | 18377. CHAETOCCHLOA VIRIDIS. |
| 18366. ERIOCHLOA VILLOSA. | 18378. CHAETOCCHLOA VIRIDIS GIGANTEA. |
| 18367. HOLCUS LANATUS. | |
| 18368. INDIGOFERA TINCTORIA. | 18379. SPODIOPOGON COTULIFER. |
| 18369. LESPEDEZA BUERGERI. | 18380. VICIA AMOENA LANATA. |
| 18370. LESPEDEZA STRIATA. | 18381. VICIA UNIJUGA. |

18382. MACADAMIA TERNIFOLIA.**Queensland nut.**

From Brisbane, Queensland, Australia. Presented by Prof. F. Manson Bailey. Received April 18, 1906.

"The Queensland nut is well worthy of cultivation in Ceylon, not only as an ornamental or windbelt tree, but also for its dainty product. That it is suited to our climate may be judged from the growth of the tree at Peradeniya, where, having been introduced in 1868, it is now 40 to 50 feet high, with a spreading habit. It is indigenous to the northeastern parts of Australia, and is commonly known there as the 'Queensland nut.' It has also been referred to as the 'Australian hazelnut,' while the late Baron von Mueller described it as 'the nut tree of subtropical eastern Australia.' The tree is at first of a rather slow-growing habit, but begins to bear fruit when 6 or 7 years old, increasing in fertility until it reaches the age of 15 years.

"A writer in the Sydney Mail some time ago stated that the tree fruited freely from the time it was 8 years old, bearing at the age of 13 1,200 nuts, with which every branch was laden. Mr. W. J. Allen, in the Agricultural Gazette of New South Wales for October of last year, draws attention to the importance of growing the Queensland nut for the market. 'One farmer,' he states, 'has over an acre of these nuts, which are doing well with him and which prove themselves very profitable, finding ready sale for them at from 6d. to 7d. per pound. The nuts are retailed in the Sydney fruit shops at 1s. per pound, and are very well liked when they become known. At present the supply in our own state can not be anything like equal to the demand, and it seems to me that if these nuts were produced in quantities we should be able to find a ready sale for large supplies in Great Britain and America.' Mr. Allen describes the nut as 'one of the best-flavored on the market,' and he would recommend all those who have not tasted them to buy a few and try them.

18382—Continued.

"The nuts are borne on spikes 4 to 7 inches long, each being of the size and shape of large marbles, about three-fourths of an inch in diameter. These have an agreeable flavor, which according to some tastes is richer than that of the hazelnut. Their chief objection is, perhaps, their very hard shell, which requires extra strong nutcrackers to break.

"The tree belongs to the order Proteaceae, to which belongs also the well-known Grevillea or 'Silky Oak.' It is evergreen, with a low, branching habit; thrives best in good damp soil, and is propagated by seed. The leaves are in whorls of 3 (ternate) or 4, as the name indicates, and the flowers are creamy white, in racemes 4 to 6 inches in length, and sweet-scented." (*H. F. Macmillan, in Tropical Agriculturist, Feb., 1906.*)

18383 to 18387.

From Singapore, Straits Settlements. Presented by Prof. Henry N. Ridley, director, Botanical Gardens. Received April 17, 1906.

A collection of aroids, as follows:

18383. ALOCASIA INDICA.

18386. AMORPHOPHALLUS SATIVUS.

18384. ALOCASIA INDICA.

18387. AMORPHOPHALLUS CAMPANULATUS.

18385. XANTHOSOMA VIOLACEUM.

18388 and 18389. ANDROPOGON SORGHUM.

Sorghum.

From Bassorah, Persian Gulf. Received through Mr. Herbert W. Poulter, April 16, 1906.

18388.

Tappo Dari. "The best quality obtainable; is planted around Bagdad and Amara. The word *Tappo*, specifying a better quality, is Turkish and represents the name of the branch of the court which looks after the collecting of the taxes on the ground. It appears that the *Dari* coming from lands held by the court was better looked after, and so a better quality obtained; hence the name *Tappo*." (*Poulter.*)

18389.

Common Dari. Planted along the Euphrates River.

18390. CYPERUS ESCULENTUS.

Chufa.

From Valencia, Spain. Received through Hon. Henry A. Johnson, United States consul, April 19, 1906.

18391. MEDICAGO SATIVA.

Alfalfa.

From Logan, Mont. Received through Mr. Martin Jacoby, April 18, 1906.

Turkestan alfalfa grown in 1905 from No. 9455.

18392. VITIS VINIFERA.

Grape.

From Salonica, Turkey. Presented by Mr. J. Henry House. Received April 2, 1906.

Cuttings of the long finger grape *Valandora*; much prized for shipping to northern countries from Salonica.

18393. ANTIDESMA BUNIUS.

From Manila, P. I. Presented by Mr. W. S. Lyon, horticulturist of the Manila Bureau of Agriculture. Received April 18, 1906.

"*Bighay* of the Malays. A medium-sized, evergreen tree; highly ornamental in or out of fruit. Fruit (edible) in racemes about the size and color of the large, red *Versailles* currant." (*Lyon.*)

18394. TRIFOLIUM PRATENSE.**Red clover.**

From Riga, Russia. Received through Mr. F. Lassman, April 20, 1906.

18395. CUCURBITA MELANOSPERMA.**Ecuador melon.**

From Quito, Ecuador. Presented by Mr. S. Ordóñez M. Received April 21, 1906.
White-shelled variety. (For description see No. 18328.)

18396. PISUM ARVENSE.**Field pea.**

From Ispahan, Persia. Received through Mr. Frank Benton, April 2, 1906.

"No. 34. A clover-like plant grown as a forage crop about Ispahan and known as *Guergueruh*. It is said to be an annual and seems to be used as a winter cover for land, the same as crimson clover in the United States. The plants are quite green in January after numerous frosts." (*Benton.*)

18397. CUCURBITA PEPO.**Pumpkin.**

From Shiraz, Persia. Received through Mr. Frank Benton, April 2, 1906.

"No. 35. A small, long, salmon-colored squash; enlarged at blossom end. The natives praise the quality, but as prepared for me it was watery and of poor flavor." (*Benton.*)

18398. CUCURBITA MAXIMA.**Squash.**

From Shiraz, Persia. Received through Mr. Frank Benton, April 2, 1906.

"No. 36. A medium-sized, oval, slate-colored, hard-skinned squash of indifferent quality on sale in the markets of Shiraz, in February, where seed was taken from a freshly cut specimen. Might be useful for stock. The region about Shiraz is dry and depends upon irrigation; elevation about 5,000 feet." (*Benton.*)

18399. FRAXINUS ORNUS.**Ash.**

From Nizamiabad, central Persia. Received through Mr. Frank Benton, April 2, 1906.

"No. 37. Seeds taken from a cultivated ornamental tree growing near a pool of water at Nizamiabad." (*Benton.*)

18400. CARICA PAPAYA.**Papaw.**

From Karachi, province of Sind, India. Received through Mr. Frank Benton, April 16, 1906.

"No. 39. Seed of a tree 20 to 30 feet tall, with large leaves, bearing fruits the size of a small muskmelon, greenish yellow outside when ripe; orange-yellow within. Grows commonly in the warmer parts of India." (*Benton.*)

18401. BRASSICA RAPA.**Turnip.**

From Quetta, Baluchistan. Received through Mr. Frank Benton, April 16, 1906.

"(No. 45.) The roots, which grow to considerable size, are flat in form and are bright crimson outside. The flesh is white, firm, and of a good quality." (*Benton.*)

18402. IPOMOEA BATATAS.**Sweet potato.**

From Quetta, Baluchistan. Received through Mr. Frank Benton, April 16, 1906.

"(No. 46.) Large sweet potatoes; red outside and quite sweet. Purchased in the market at Quetta and probably grown in the lowlands of the Indus." (*Benton.*)

18403 to 18407.

From Quetta, Baluchistan. Received through Mr. Frank Benton, April 16, 1906.

Seeds, as follows:

18403. DAUCUS CAROTA.	Carrot.
(No. 47.)	
18404. PINUS GERARDIANA.	Pine.
(No. 48.)	
18405. CUCURBITA MAXIMA.	Squash.
(No. 49.)	
18406. CUCURBITA MAXIMA.	Squash.
(No. 50.)	
18407. VITIS VINIFERA.	Grape.
(No. 51.)	

18408. SECHIU M EDULE. Chayote.

From Mayaguez, P. R. Received through the Agricultural Experiment Station, April 26, 1906.

Fruits of a variety of chayote which is covered with spines.

18409 and 18410. SACCHARUM OFFICINARUM. Sugar cane.

From Bridgetown, Barbados. Presented by Hon. Sir Daniel Morris, K. C. M. G., Commissioner of Agriculture for the British West Indies. Received April 23, 1906.

18409. <i>Collynn's seedling.</i>	18410. <i>Sealy seedling.</i>
--	--------------------------------------

18411. ANDROPOGON SORGHUM. Sorghum.

From Roswell, N. Mex. Received through Mr. G. S. Nutter, April 19, 1906.

African sumac cane.

18412. TRIFOLIUM PRATENSE. Red clover.

From Baltimore, Md. Received through W. G. Scarlett & Co., April 23, 1906.

Austrian.

18413 to 18421.

From New York, N. Y. Received through Henry Nungesser & Co., April 23, 1906.

A collection of seeds, as follows:

18413. AGROSTIS CANNA.	Rhode Island bent-grass.
18414. ALOPECURUS PRATENSIS.	Meadow foxtail.
18415. ARRHENATHERUM ELATIUS.	Tall meadow oat-grass.
18416. BROMUS ERECTUS.	
18417. FESTUCA ELATIOR.	Tall fescue.
18418. MEDICAGO SATIVA.	Alfalfa.
<i>Provence.</i>	
18419. POA COMPRESSA.	Canada bluegrass.
18420. TRIFOLIUM INCARNATUM.	Crimson clover.
18421. TRIFOLIUM MEDIUM.	Mammoth clover.

18422. VICIA VILLOSA.**Hairy vetch.**

From New York, N. Y. Received through Henry Nungesser & Co., April 23, 1906.

18423. ECHINACEA HELIANTHI.

From Riverton, N. J. Received through Henry A. Dreer (Incorporated), Philadelphia, Pa., April 23, 1906.

Plants obtained for hybridizing experiments.

18424. CANNA sp.**Canna.**

From Guam. Presented by Mr. H. L. W. Costenoble, superintendent of the Guam Agricultural Experiment Station. Received April 23, 1906.

"Seed of the native Guam canna, which grows to a height of 8 feet and produces blossoms uninterruptedly." (*Costenoble.*)

18425. MEDICAGO SATIVA.**Alfalfa.**

From Marblehead, Mass. Received through J. J. H. Gregory & Son, April 23, 1906.

Turkestan.

18426 and 18427.

From Juarez, Chihuahua, Mexico. Presented by Mr. Elmer Stearns, of the Agricultural College and Station. Received April 25, 1906.

18426. ZEA MAYS.**Corn.**

Flint corn from Budapest.

18427. (Undetermined.)**"Tree pea."****18428. PASSIFLORA sp.**

From Tecalitlan, Jalisco, Mexico. Presented by Mr. C. V. Mead. Received April 20, 1906.

18429 to 18458.

From Shanghai, China. Received through Mr. F. N. Meyer, April 28, 1906.

A miscellaneous collection of plants and seeds, the seeds being indicated by the letter "a" following the numbers, as follows:

18429. JUNCUS sp.**Rush.**

From Soochow. "(No. 521.) A variety of matting rush collected near Soochow. They must be grown in muddy soil with 2 to 3 inches of standing water." (*Meyer.*)

18430. JUNCUS sp.**Rush.**

From Soochow. "(No. 523.) The rush from which pith wicks for the Chinese oil lamps are made." (*Meyer.*)

18431. (Undetermined.)**"Kaba."**

From Soochow. "(No. 525.) A new vegetable, said to be very delicious; must be grown in muddy soil with 3 to 4 inches of water." (*Meyer.*)

18432. GYMNOCLADUS CHINENSIS.

From Hanchau. "(No. 202a.) A tall-growing tree with naked branches, bearing heavy pods, which are used by the Chinese as a substitute for soap. Chinese name *Soa Ache*. The tree may be of use as an ornamental tree in the Southern States." (*Meyer.*)

18433. GYMNOCLADUS CHINENSIS.

From Hanchau. "(No. 203a.) A small-podded soap tree; otherwise the same description applies to it as to No. 18432." (*Meyer.*)

18429 to 18458—Continued.**18434.** VICIA FABA.**Broad bean.**

From Shanghai. "(No. 204a.) A variety of broad bean grown as a winter crop on rice fields." (*Meyer.*)

18435. CORCHORUS CAPSULARIS.**Jute.**

From Shanghai. "(No. 210a.) Seeds of the so-called *Mo-hi* fiber." (*Meyer.*)

18436. SAPINDUS UTILIS.**Soapberry.**

From near Hanchau. (No. 211a.)

18437. RAPHANUS SATIVUS.**Radish.**

From Hanchau. "(No. 212a.) A small variety of red radish with round, elongated form. Seeds were obtained through Mr. F. D. Cloud, acting consul at Hanchau." (*Meyer.*)

18438. ASTRAGALUS sp.

From Shanghai. (No. 213a.)

18439. CITRUS MEDICA.**Lemon.**

From Hanchau. "(No. 214a.) A large Chinese lemon, or possibly wild pomelo. A citrus fruit which serves the purpose here of our lemon. The fruit is very large, 4 inches long by $2\frac{1}{2}$ to 3 inches wide; has loose skin which is full of a particularly pungent oil. The trees come true to seed and grow tall; branches are rather bare and full of large spines; can stand severe frosts and heavy snowfalls and may be of use as a stock plant for the northern limit of our citrus belt." (*Meyer.*)

18440. CITRUS DECUMANA.**Pomelo.**

From Shanghai. "(No. 215a.) Seeds of a large, loose-skinned, loosely segmented pomelo, which is eaten here like the orange and is not bitter at all. A fruit well worth introducing." (*Meyer.*)

18441. BRASSICA sp.

From Tang-hse near Hanchau, Che-kiang Province. "(No. 216a.) The plant producing these seeds, out of which a good edible oil is made, is only grown as a winter crop on rice fields, and the crop is ripe before the rice needs the space. The young tops of the plant are eaten boiled as a vegetable." (*Meyer.*)

18442. BRASSICA spp.

From Shanghai. (No. 217a.) Apparently a mixture of at least two varieties of Brassica.

18443. PANICUM MILIACEUM.**Broom-corn millet.**

From Shanghai. (No. 218a.)

18444. PHASEOLUS CALCARATUS.**Bean.**

From Shanghai. "(No. 236a.) A small, reddish bean used as food. Chinese name *Mu tsu*." (*Meyer.*)

18445. PERILLA OCYMOIDES.**Perilla.**

From Shanghai. (No. 237a.)

18446. NELUMBO NUCIFERA ALBA.**White lotus.**

From Shanghai. "(No. 238a.) The seeds are highly esteemed by the Chinese as delicatessen. They boil them and roll them in powdered sugar, and they taste fine. Our confectioners might try to make the public acquainted with them." (*Meyer.*)

18447. NELUMBO NUCIFERA ROSEA.**Red lotus.**

From Shanghai. "(No. 239a.) Much cheaper than the white variety; otherwise the same description applies to it." (*Meyer.*)

18448. DOLICHOS LABLAB.**Hyacinth bean.**

From Shanghai. (No. 244a.)

18429 to 18458—Continued.**18449. RAPHANUS SATIVUS.****Radish.**From Shanghai. "(No. 245a.) Seed of a white variety." (*Meyer.*)**18450. ABUTILON AVICENNAE.****China jute.**From Shanghai. "(No. 246a.) Seed of a fiber-producing plant called *pa-mu.*" (*Meyer.*)**18451. CANNABIS SATIVA.****Hemp.**

From Shanghai. (No. 247a.)

18452. BRASSICA sp.

From Shanghai. (No. 248a.)

18453. CORCHORUS sp.From Shanghai. "(No. 249a.) Seed of a fiber-producing plant called '*Ching-mu-tse.*' The fiber is used in weaving rush mats." (*Meyer.*)**18454. HORDEUM VULGARE.****Barley.**

From Shanghai. (No. 250a.)

18455. PISUM SATIVUM.**Pea.**

From Shanghai. (No. 251a.)

18456. (Undetermined.)

From Shanghai. (No. 252a.) A mixture of vetches and peas.

18457. TRITICUM VULGARE.**Wheat.**

From Tan-yang. (No. 253a.)

18458. HORDEUM VULGARE NUDUM.**Barley.**From Tan-yang. "(No. 254a.) Seed of a hull-less barley obtained at Tan-yang near Chinkiang, south of the Yangtze River." (*Meyer.*)**18459 and 18460. GLYCINE HISPIDA.****Soy bean.**

From West Branch, Mich. Received through Mr. Edward E. Evans, May 2, 1906.

18459. Green.**18460. Early black.****18461. TRIFOLIUM sp.****Clover.**

From Pretoria, Transvaal. Presented by Prof. J. Burtt Davy, agrostologist and botanist of the Transvaal Department of Agriculture. Received April 30, 1906.

"*Limoru* clover seed from British East Africa, where it grows at an altitude of about 6,000 to 7,000 feet; it also appears to grow well when planted in a dry country." (*Davy.*)**18462. CUCUMIS MELO.****Muskmelon.**

From Cartagena, Colombia. Presented by Mr. Wm. R. Maxon, of San Jose, Costa Rica. Received April 28, 1906.

Seed of the native Cartagena muskmelon.

18463. ANDROPOGON CYMBARIUS.

From Central Madagascar. Presented by M. Derlandlee, of the Madagascar Department of Agriculture, Tananarivo. Received April 27, 1906.

"A good forage plant when young, and the best known of the central Madagascar species. Known by the natives as *Verotsanjy.*" (*Derlandlee.*)

18464 to 18467. ASPARAGUS spp.**Asparagus.**

From Palermo, Sicily. Presented by Prof. Dr. A. Borzi, of the Royal Botanical Gardens. Received May 2, 1906.

Asparagus roots and seeds, as follows:

18464. ASPARAGUS ACUTIFOLIUS.

(Roots.)

18466. ASPARAGUS MEDEOLOIDES.

(Seeds.)

18465. ASPARAGUS ACUTIFOLIUS.

(Seeds.)

18467. ASPARAGUS MEDEOLOIDES.

(Roots.)

18468. CITRUS TOROSA.

From Manila, P. I. Presented by Mr. William S. Lyon, horticulturist, Bureau of Agriculture. Received May 2, 1906.

18469. LEVISTICUM OFFICINALE.**Lovage.**

From Holland, Mich. Received through Mr. William Kremers, May 3, 1906.

Plants advertised by the Greening Nursery Company, of Monroe, Mich., as the "Silver King Hardy Celery." Obtained for determination.

18470. MEDICAGO MEDIA.**Sand lucern.**

From Milwaukee, Wis. Received through the Wernich Seed Company, May 3, 1906.

18471. HUMULUS LUPULUS.**Hop.**

From Stevens Point, Wis. Received through Mr. A. N. Mueller, April 28, 1906.

Bohemian.

18472 and 18473. VIGNA UNGUICULATA.**Cowpea.**

From Augusta, Ga. Received through the N. L. Willet Seed Company, May 4, 1906.

18472. *Black-eye.*

18473. *Unknown.*

18474. HARPEPHYLLUM CAFFRUM.**Kafir plum.**

From Cape Town, South Africa. Presented by Mr. C. P. Lounsbury, of the Department of Agriculture. Received May 10, 1906.

Seed collected in the Eastern Province of Cape Colony. (For description see No. 9616.)

18475. ABROMA AUGUSTA.**Anabó.**

From Manila, P. I. Presented by Mr. W. S. Lyon, horticulturist, Bureau of Agriculture. Received May 11, 1906.

"A perennial shrub producing the Anabó bast fiber." (*Lyon.*)

18476. SAPINDUS UTILIS.**Soapberry.**

From Algiers, Algeria. Received through Mr. James Johnston, United States consul, April 30, 1906.

"A native of South China, cultivated in Algeria, where it comes into bearing in eight or ten years. The tree prefers dry, rocky soil, and has been known to yield \$10 to \$20 worth of berries every year. These contain 38 per cent saponin, an alkaline principle which makes them useful for cleaning purposes. In eastern countries the fruit was much used before the introduction of soap and is still preferred for washing the hair and cleansing delicate fabrics like silk." (*Barclay.*)

18477. PANICUM MILIACEUM.**Broom-corn millet.**

From New York, N. Y. Received through J. M. Thorburn & Co., May 2, 1906.
White French.

18478. ASPARAGUS SCABER.

From Frescati, near Stockholm, Sweden. Presented by Prof. Veit Wittrock.
 Received May 1, 1906.

Seeds obtained for hybridizing work conducted by Mr. G. W. Oliver, of this Department.

18479. GARCINIA MANGOSTANA.**Mangosteen.**

From Buitenzorg, Java. Presented by Doctor Treub, director of the Botanical Gardens. Received May 5, 1906.

18480 to 18498.

From Fürstenalps, near Khur, Switzerland. Presented by Dr. F. G. Stebler, director of the Seed Control Station, Zurich. Received May 4, 1906.

A collection of hardy grass and forage plant seeds raised in Doctor Stebler's alpine garden in the Fürstenalps, near Khur, at an altitude of 5,700 feet. "These are all hardy strains which have been raised for some years in this garden and thoroughly acclimated to a short, cold growing season. That these forms are extremely hardy has been frequently proved by planting commercial seed of the same kind in these gardens, where it is invariably killed out for the most part during the first season." (Stebler.)

18480. POTERIUM DODECANDRUM.	18490. FESTUCA PUMILA.
18481. FESTUCA VIOLACEA.	18491. BROMUS INERMIS.
18482. POA ALPINA.	18492. DACTYLIS GLOMERATA.
18483. FESTUCA HALLERI.	18493. OXYTROPIS CAMPESTRIS.
18484. ALOPECURUS PRATENSIS.	18494. PHACA FRIGIDA.
18485. ARRHENATHERUM ELATIUS.	18495. OXYTROPIS CAMPESTRIS.
18486. PILEUM MICHELII.	18496. HEDYSARUM OBSCURUM.
18487. FESTUCA PRATENSIS.	18497. TRIFOLIUM CAESPITOSUM.
18488. POTERIUM OFFICINALE.	18498. TRIFOLIUM ALPINUM.
18489. LIGUSTICUM MUTELLINA.	

18499. PINUS EDULIS.**Nut pine.**

From New Mexico. Received through Mr. H. B. Beck, Austin, Tex., May 1, 1906.

For exchange.

18500. CEREUS sp.

From Brownsville, Tex. Received through Mr. O. W. Barrett, May 4, 1906.

18501 to 18504. ANDROPOGON SORGHUM.**Sorghum.**

From Curaçao, Dutch West Indies. Presented by Mr. I. Wesley, Superintendent of Agriculture. Received May 8, 1906.

18501. <i>Doerah.</i>	18503. <i>Santa Martha.</i>
18502. <i>Kabees largoe.</i>	18504. Common type.

18505. CHAETOCLOA ITALICA.**Korean millet.**

From Yokohama, Japan. Received through the Yokohama Nursery Company, May 7, 1906.

Paytupsal.

18506. TRIGONELLA FOENUM-GRÆCUM.**Fenugreek.**

From Kohat, Northwest Frontier Province, India. Received through Mr. Frank Benton (No. 70), April 30, 1906.

18507. CUCUMIS MELO.**Muskmelon.**

From Lahore, India. Received through Mr. Frank Benton, April 30, 1906.

“(No. 76.) Seed from a freshly cut melon purchased in the market at Lahore, India, in March, 1906. Melon small, round; yellow, with green marking; netted. Had a strong but rather fragrant odor, which is difficult to indicate, but reminded one of musk.” (*Benton.*)

18508. ACACIA FARNESIANA.**Popinac.**

From Kohat, Northwest Province, India. Received through Mr. Frank Benton (No. 73), April 30, 1906.

(See No. 3349, Inventory No. 7, and No. 3528, Inventory No. 8.)

18509. ALBIZZIA LEBBEK.**Siris tree.**

From Dera Ismail, Northwest Province, India. Received through Mr. Frank Benton (No. 74), April 30, 1906.

18510 and 18511. TRIFOLIUM PRATENSE.**Red clover.**

From Riga, Russia. Received through Mr. Heinrich Goegginger, May 9, 1906.

18510. *Ufa.*

18511. *Jeletz.*

18512 to 18517. ELEUSINE CORACANA.**Ragi.**

From Bangalore, South India. Presented by F. Fletcher, esq., Deputy Director of Agriculture, Bombay Presidency. Received April 27, 1906.

A collection of ragi:

18512. *Konanakombina.*

18515. *Gidda.*

18513. *Jamumuddina.*

18516. *Sunnakari.*

18514. *Balepatte.*

18517. *Gundutanekari.*

18518. ANDROPOGON SORGHUM.**Sorghum.**

From Manchuria. Received through the Yokohama Nursery Company, May 9, 1906.

“*Kaulien* sorghum of Manchuria, which forms the staple produce of that country and which has been made famous in the last year. It grows 8 to 10 feet high; the stalks and grain were indispensable for all concerned.” (*Yokohama Nursery Company.*)

18519 to 18522. VIGNA UNGUICULATA.**Cowpea.**

From Richmond, Va. Received through T. W. Wood & Sons, May 9, 1906.

18519. *Clay.*

18521. *Whippoorwill.*

18520. *Red Ripper.*

18522. *New Era.*

18523 and 18524. ARACHIS HYPOGAEA.**Peanut.**

From Chepauk, Madras Presidency, South India. Presented by Mr. C. A. Barber, government botanist. Received May 9, 1906.

18523. *Country* groundnut. (C. A. B. No. 3153.)

18524. *Local Mauritius* groundnut. (C. A. B. No. 3154.)

18525 to 18529. MUSA SAPIENTUM.**Banana.**

From Manila, P. I. Presented by Mr. W. S. Lyon, horticulturist, Bureau of Agriculture. Received May 11, 1906.

18525. *Saba.*

18528. *Matabia.*

18526. *Butuhan.*

18529. *Latundan.*

18527. *Lacatan.*

18530. RAPHIDOPHORA MERRILLII.

From Manila, P. I. Presented by Mr. W. S. Lyon, horticulturist, Bureau of Agriculture. Received May 11, 1906.

18531 to 18534. ZEA MAYS.**Corn.**

From Juarez, Chihuahua, Mexico. Presented by Mr. Elmer Stearns. Received May 10, 1906.

Four varieties of dent corn.

18531. *Maiz blanco* (white corn). **18533.** *Temporal.*

18532. *Jaraleno.*

18534. *El Coahuileno.*

18535. ACTINIDIA CHINENSIS.**Yang tau.**

From Kuling, Kiukiang, Kiang-si, China. Presented by Rev. Hugh W. White. Received May 15, 1905. (See S. P. I. No. 11629, Inventory No. 11.)

"The plant grows wild here, and is not known in the United States; indeed, I have seen it nowhere else in China. We find it a delicious fruit with excellent medicinal effect on the digestion. The place is about the latitude of Galveston, but it is on a mountain 3,500 feet high and has a climate not unlike Virginia or North Carolina. In winter there is an abundance of snow and ice. The subsoil is a poor, stony, red soil, but is covered with a few inches of black wood earth. There is much rainfall. The plant grows like a grape, and the fruit is single, between the size of a hickory nut and a walnut, with a russet-looking green skin and a consistency much like the green fig. If it can be cultivated it will make a valuable fruit." (*White.*)

18536 and 18537. CHENOPODIUM QUINOA.**Quinoa.**

From La Paz, Bolivia. Presented by Mr. Arthur L. Jackson, of the Andes Trading Company. Received May 19, 1906.

18536.

Canana. A dark-seeded variety of poor quality.

18537.

Common. A white-seeded variety most commonly grown.

"I find that there are three kinds of quinoa commonly grown here, though one is rather rare and hard to get. I am sending you samples of two varieties in this mail. The third variety is the *Quinoa Real* (or *Royal Quinoa*), which is a much taller plant. Quinoa here is principally used by the Indians. They make various kinds of foods and a drink out of it. The latter is called *Chicha* and when fermented is quite intoxicating. *Chicha* is also made out of other ingredients, such as peanuts. Quinoa is also much used as rice is used in soups, and the Indians make a dish out of it which looks like a sort of watery mush or hominy, which is not bad to eat. They also grind it up on a stone and make a kind of Indian bread, like coarse Gra-

18536 and 18537—Continued.

ham bread, which is good and much more nutritious, or so they claim, than corn or meal bread. I have been told that quinoa does not grow well at a less altitude than about 8,000 feet." (*Jackson.*)

18538. LILIUM LONGIFLORUM EXIMIUM.**Easter lily.**

From Washington, D. C. Numbered May 23, 1906.

Plants grown from seed propagated in the Department greenhouse.

18539. CARISSA ARDUINA.**Amatungulu.**

From Cape Town, South Africa. Presented by the Corporation of the City of Cape Town Public Gardens. Received May 21, 1906.

(See No. 9612, Inventory No. 10; and Nos. 13239 and 13967, Inventory No. 11.)

18540 to 18542. HORDEUM spp.**Barley.**

From Svalöf, Sweden. Received through Dr. N. H. Nilsson, of the Swedish Seed Breeding Institute, May 24, 1906.

Pedigreed brewing barleys produced by selection and each variety said to be 100 per cent pure seed. (See Nos. 10583, 10585, and 10586, Inventory No. 11, for description.)

18540. HORDEUM DISTICHUM NUTANS.

Hannchen.

18541. HORDEUM DISTICHUM ERECTUM.

Primus.

18542. HORDEUM DISTICHUM NUTANS.

Prinsess.

18543 to 18545. SOLANUM MELONGENA.**Eggplant.**

From Cairo, Egypt. Presented by Mr. George P. Foaden, of the Khedivial Agricultural Society. Received May 26, 1906.

18543. A BLACK-FRUITED VARIETY.**18544. A WHITE-FRUITED VARIETY.****18545. A ROUND, VIOLET-FRUITED VARIETY.****18546 to 18548.**

From Toledo, Ohio. Received through S. W. Flower & Co., May 26, 1906.

18546. TRIFOLIUM PRATENSE.**Red clover.**

Mammoth.

18547. TRIFOLIUM HYBRIDUM.**Alsike.****18548. PHELUM PRATENSE.****Timothy.****18549. ACACIA sp.****Acacia.**

From Jammu, Kashmir. Received through Mr. Frank Benton, May 29, 1906.

"An *Acacia* which grows wild on very poor, dry, and stony soil in southern Kashmir. It is used as a hedge plant. Single specimens standing alone sometimes attain a diameter of 2 feet at base of trunk and 30 to 40 feet in height. Covered in April with a profusion of ornamental white, tassel-like blossoms, which are quite freely visited by bees and yield a fine quality of honey." (*Benton.*)

18550. CITRUS AUSTRALASICA.**Finger lime.**

From Wellington Point, near Brisbane, Queensland, Australia. Presented by Mr. James Pink. Received May 29, 1906.

(See No. 14993, Inventory No. 11.)

18551 to 18556. TRIFOLIUM PRATENSE.**Red clover.**

From Oakland, Nebr. Grown on the ranch of Mr. John P. Young from seed planted in 1905 and resown at same place in the spring of 1906.

A collection of red clover seed used in the plant life history experiments being conducted by Mr. C. J. Brand, of this Department.

- 18551.** Missouri seed. (No. 6.)
- 18552.** Commercial seed. (No. 9.)
- 18553.** Nebraska seed. (No. 11.)
- 18554.** Courland (Russia) seed. (No. 18.)
- 18555.** Wisconsin seed. (No. 19.)
- 18556.** Pennsylvania seed. (No. 21.)

18557 to 18560. ELEUSINE CORACANA.**Ragi.**

From Bangalore, South India. Presented by Mr. F. Fletcher, Deputy Director of Agriculture, Bombay Presidency. Received May 31, 1906.

- 18557.** *Dodda.*
- 18559.** *Majjige.*
- 18558.** *Madayangiri.*
- 18560.** *Hasarukumbi.*

18561 to 18626.

From China. Received through Mr. F. N. Meyer, at the Plant Introduction Garden, Chico, Cal., May 18, 1906.

Seeds and cuttings of Chinese plants, the seeds being indicated by the letter "a" following the numbers, as follows:

- 18561.** MORUS ALBA. **Mulberry.**
- From Tang-hsi. (No. 140.)
- 18562.** MORUS ALBA. **Mulberry.**
- From Shanghai. (No. 514.)
- 18563.** MORUS ALBA. **Mulberry.**
- From Tang-hsi. (No. 520.)
- 18564.** PITTOSPORUM TOBIRA.
- From Shanghai. (No. 200a.)
- 18565.** ZIZYPHUS SATIVA. **Jujube.**
- From Peking. (No. 201a.)
- 18566.** EUONYMUS JAPONICUS. **18570.** SMILAX sp.
- From Hankow. (No. 141.)
- From Tang-hsi. (No. 146.)
- 18567.** EUONYMUS sp. **18571.** (Undetermined.)
- From Tang-hsi. (No. 142.)
- From Tang-hsi. (No. 147.)
- 18568.** ELAEAGNUS sp. **18572.** DAPHNE sp.
- From Hankow. (No. 143.)
- (No. 148.)
- 18569.** ALTINGIA CHINENSIS. **18573.** CHIMONANTHUS FRAGRANS.
- From Hankow. (No. 145.)
- From Hankow. (No. 503.)
- 18574.** HIBISCUS SYRIACUS. **Rose of Sharon.**
- From Hankow. (No. 505.) Cuttings.
- 18575.** HIBISCUS SYRIACUS. **Rose of Sharon.**
- From Hankow. (No. 192a.) Seeds.

18561 to 18626—Continued.

- 18576.** *ROSA RUGOSA.* **Rose.**
From Shanghai. (No. 506.)
- 18577.** *JUNIPERUS CHINENSIS.* **Chinese juniper.**
From Shan-hai-kwan. (No. 166a.)
- 18578.** *ACER MONO.* **Maple.**
From Wei-tsan Mountains, near Peking. (No. 169a.) Seeds sent under No. 67a, S. P. I. No. 17898.
- 18579.** *GLEDITSIA* sp.
From Wei-tsan Mountains, near Peking. (No. 174a.)
- 18580.** *HIBISCUS MANIHOT.*
From Peking. "(No. 180a.) A perennial *Althaea* or a *Hibiscus* with very large, bright yellow flowers. Brought from southern China to Peking by Dr. N. S. Hopkins, from whose son I obtained the seeds." (*Meyer.*)
- 18581.** *LYCIUM* sp. **Matrimony vine.**
From Palitswang. "(No. 182a.) A matrimony vine which is trained on one stem, with small branches drooping down like a weeping tree. Cuttings sent under No. 86, S. P. I. No. 18271." (*Meyer.*)
- 18582.** *RHAMNUS* sp.
From Tchang-ping-tcho. (No. 184a.)
- 18583.** *VIBURNUM ODORATISSIMUM.*
From Shanghai. (No. 191a.)
- 18584.** *ACTINIDIA CHINENSIS.* **Yangtaw.**
From Hankow. "(No. 194a.) Obtained from Mr. F. J. Brown, of Hankow, who received the seeds from Ichang. Mr. Brown says it is a vine bearing nice edible fruits, something like large gooseberries, with rough skin." (*Meyer.*)
- 18585.** *PRUNUS* sp. **Plum.**
From Tang-hsi. (No. 144.)
- 18586.** *PRUNUS* sp. **Plum.**
From Shanghai. (No. 509.)
- 18587.** *PRUNUS* sp. **Cherry.**
From Tang-hsi. (No. 519.)
- 18588.** *AMYGDALUS PERSICA.* **Peach.**
From Shanghai. (No. 501.)
- 18589.** *AMYGDALUS PERSICA.* **Peach.**
From Shanghai. (No. 502.)
- 18590.** *AMYGDALUS PERSICA.* **Peach.**
From Shanghai. (No. 508.)
- 18591.** *AMYGDALUS PERSICA.* **Peach.**
From Shanghai. (No. 510.)
- 18592.** *AMYGDALUS PERSICA.* **Peach.**
From Shanghai. (No. 511.)
- 18593.** *AMYGDALUS PERSICA.* **Peach.**
From Shanghai. (No. 512.)
- 18594.** *AMYGDALUS PERSICA.* **Peach.**
From Shanghai. (No. 513.)

18561 to 18626—Continued.**18595.** *AMYGDALUS DAVIDIANA* (?).

From Tientsin. (No. 168a.)

18596. *DIOSPYROS KAKI*.**Persimmon.**From Shanghai. "(Nos. 504 and 516.) Said to be a seedless persimmon of medium size." (*Meyer.*)**18597.** *DIOSPYROS KAKI*.**Persimmon.**From Tang-hsi. "(No. 517.) Said to be a large, seedless persimmon of very sweet taste." (*Meyer.*)**18598.** *DIOSPYROS* sp.**Persimmon.**From Tang-hsi. "(No. 518.) A persimmon growing wild in different places and used as a stock for the larger seedless ones. Is an entirely different species from the one used in northern China; has a smooth, white bark." (*Meyer.*)**18599.** *DIOSPYROS* sp.**Persimmon.**From Chang-li. "(No. 161a.) Seed of the wild persimmon used as stock for the large seedless varieties, and the fruits, too, are used in a semidried state, being a poor people's fruit." (*Meyer.*)**18600.** *MALUS MALUS*.**Apple.**

From Shanghai. (No. 507.)

18601. *CYDONIA JAPONICA*.**Japanese quince.**

From Peking. (No. 173a.)

18602. *VITIS* sp.**Grape.**From Hankow. "(No. 515.) A purple grape, bearing medium-sized bunches; said to have been introduced by the station missionaries. If so, it might be a fine grape for the South Atlantic States, as the climate in Hankow is very similar to that of the Southern States." (*Meyer.*)**18603.** *JUGLANS REGIA*.**Persian walnut.**From Chang-li. "(No. 162a.) A very large, paper-shell walnut, the largest one to be had. Owner was not willing to show the tree, so could not obtain scions." (*Meyer.*)**18604.** *JUGLANS REGIA*.**Persian walnut.**From Chang-li. "(No. 163a.) A sample of large, well-formed nuts, of which scions were sent under No. 48, S. P. I. No. 17747." (*Meyer.*)**18605.** *PISTACIA CHINENSIS*.**Pistache.**

From Wei-tsan Mountains near Peking. (No. 170a.) The same as No. 63a, S. P. I. No. 19391.

18606. *BRASSICA PE-TSAI*.**Pe-tsai cabbage.**

From Hankow. (No. 193a.)

18607. *SESAMUM INDICUM*.**Sesame.**From Shanghai. (No. 189a.) *Black.***18608.** *MEDICAGO* sp.

From Peking. (No. 183a.)

18609. (Undetermined.)

From Shan-hai-kwan. (No. 181a.)

18610. *ANDROPOGON SORGHUM*.**Sorghum.**From Shan-hai-kwan. "(No. 153a) A white-grained variety of sorghum grown on rather alkaline land." (*Meyer.*)

18561 to 18626—Continued.

- 18611. ANDROPOGON SORGHUM. Sorghum.**
From Shan-hai-kwan. "(No. 154a.) A light brown colored variety of sorghum grown on rather alkaline land." (*Meyer.*)
- 18612. ANDROPOGON SORGHUM. Sorghum.**
From Shan-hai-kwan. "(No. 155a.) A dark brown colored variety of sorghum grown on rather alkaline land." (*Meyer.*)
- 18613. ANDROPOGON SORGHUM. Sorghum.**
From Peking. "(No. 172a.) White seeded. Given to me by Mr. J. T. Headlands, of the Methodist Mission, Peking. This is the drooping variety used to make brooms from." (*Meyer.*)
- 18614. ANDROPOGON SORGHUM. Sorghum.**
From Peking. (No. 172a.) Brown seeded. (For description see No. 18613.)
- 18615. ORYZA SATIVA. Rice.**
From Shan-hai-kwan. "(No. 156a.) An upland rice grown sparsely around here; seems to succeed on rather alkaline land. Should be hardy as far as New York or in Illinois. Probably the same as No. 40a (S. P. I. No. 17915), but is from a different locality." (*Meyer.*)
- 18616. ORYZA SATIVA. Rice.**
From Chang-li. "(No. 157a.) An upland rice growing on rather moist land." (*Meyer.*)
- 18617. VIGNA UNGUICULATA. Cowpea.**
From Shan-hai-kwan. "(No. 158a.) A brown and white spotted bean." (*Meyer.*)
- 18618. PHASEOLUS ANGULARIS. Adzuki bean.**
From Shanghai. (No. 187a.)
- 18619. GLYCINE HISPIDA. Soy bean.**
From Shanghai. "(No. 188a.) A very large variety of yellow soy bean." (*Meyer.*)
- 18620. PANICUM MILIACEUM. Broom-corn millet.**
From Shan-hai-kwan. (No. 159a.)
- 18621. CHAETOCHELOA ITALICA. Millet.**
From Shan-hai-kwan. (No. 160a.)
- 18622. CHAETOCHELOA ITALICA. Millet.**
From Shan-hai-kwan. (No. 165a.)
- 18623. GOSSYPIUM sp. Cotton.**
From Chang-li. (No. 164a.)
- 18624. SAPIUM SEBIFERUM. Tallow tree.**
From Shanghai. (No. 190a.)
- 18625. ANDROPOGON SORGHUM. Sorghum.**
From Kung-ki-tschang. (No. 171a.) Red seeded.
- 18626. ANDROPOGON SORGHUM. Sorghum.**
From Kung-ki-tschang. (No. 171a.) White seeded.

18627 and 18628. MEDICAGO SATIVA.**Alfalfa.**

From Bassorah, Arabia. Received from Mr. Herbert W. Poulter, through Mr. David Fairchild, June 12, 1906.

Arabian alfalfa or Jet.

18627. Seed from irrigated plants.

18628. Seed from unirrigated plants.

18629. MEDICAGO SATIVA.**Alfalfa.**

From Buffalo, N. Y. Received through the Harvey Seed Company, June 13, 1906.

Canadian grown alfalfa.

18630. PHOENIX DACTYLIFERA.**Date.**

From Morocco. Received through McCaig, Gilchrist & Co., Glasgow, Scotland, May 28, 1906.

Tafilalt. "Groves of this date occur in the oases of the region of Tafilalt, and this is supposed to be the largest variety grown there. It is in any case that variety which is most largely exported from Morocco, especially to the English market." (*Fairchild.*)

18631. IPOMOEA BATATAS.**Sweet potato.**

From Paoli, Ind. Presented by Braxtan Brothers. Received June 1, 1906.

This variety is of a peculiar and unusual shape, resembling a muskmelon. "Raised from a sweet potato plant and bought by us in a lot of sweet potatoes last December and kept since lying around the store with no care whatever as to its preservation, while our sweet potatoes rotted right along." (*Braxtan.*)

18632. CANNABIS SATIVA.**Hemp.**

From Shinnintong District, Manchuria. Received through the Yokohama Nursery Company, Yokohama, Japan, May 29, 1906.

"Manchurian hemp seeds produced in the district of Shinnintong, some 200 miles southwest of Kirin Province." (*Yokohama Nursery Company.*)

18633. ANDROPOGON SORGHUM.**Sorghum.**

From Turks Island, West Indies. Presented by Mr. J. A. Howells, United States consul. Received June 4, 1906.

"*Guinea corn*, the principal crop on this island for grain and fodder." (*Howells.*)

18634. XANTHOSOMA sp.**Yautia.**

From Chiapas, southern Mexico. Presented by Mr. Lawrence Harmon, of Chicago, Ill. Received April 26, 1906. Additional roots were received June 14, 1906.

Roots of a semiwild yautia found growing wild in Chiapas; said to be eaten by the natives, but not cultivated by them.

"These were shipped from the city of San Juan Bautista, Tabasco, Mexico, and it is supposed that they were brought into that city by the peons, who gathered them in that immediate vicinity. It is further understood that there is no systematic attempt made to cultivate them, and that they practically grow wild under varying circumstances, which might in some measure account for variations found in them." (*Harmon.*)

18635. PISTACIA CABULICA (?)

From Chaman, British India. Presented by Lieut. W. L. Maxwell, One Hundred and Twenty-Seventh Baluchistan Light Infantry. Received June 4, 1906.

"These wild nuts are much eaten by the Pathans around here. With regard to planting them, the following information may be useful: The Pathans say that a new tree only grows where one of the hill partridges eats a nut and passes it through in its excreta on to suitable ground. I asked the forest officer in Quetta if there could be any truth in this extraordinary statement. He told me that he had several trees growing in the Quetta plantations, and that all had been grown from seed so treated. The reason presumably is that the oil, in which these nuts are very rich, must first be extracted from the seeds. I heard from a cultivator here that if the seeds were well rubbed between the hands until all the oil was extracted, satisfactory results were obtained from planting them. The seeds ripen in August." (*Maxwell.*)

18636. PISTACIA VERA.**Pistache.**

From Viernyi, Semirychensk Province, Turkestan. Presented by Mr. E. Valneff, through Mr. E. A. Bessey, of the Subtropical Laboratory, Miami, Fla. Received June 4, 1906.

"Pistache seeds from north Persia, the best that we know." (*Valneff.*)

18637. PISTACIA INTEGERRIMA.**Zebra wood.**

From Khost, India. Presented by Mr. Philip Parker, of the Indian Irrigation Service, through Mr. J. S. Davis, executive engineer, Bannu, Kuram Valley Irrigation Project. Received June 4, 1906.

"This is the famous zebra wood of Kakra, India, which grows to be a large tree 40 feet or more high, with a trunk in diameter from $2\frac{1}{2}$ to 3 feet, or even as much as $4\frac{3}{4}$ feet. It grows on the warm slopes of the Himalaya Mountains in northern India, usually at an altitude of from 1,200 to 8,000 feet. The wood is very hard and close grained, brown in color, and beautifully mottled with yellow and dark veins, whence the name 'zebra wood.'

"Stewart and Brandis, in their 'Forest Flora of Northwest and Central India,' say: 'The heartwood of mature trees is the best and most handsome wood of the northwest Himalaya for carving, furniture, and all kinds of ornamental work.'

"According to Mr. Bolton, settlement officer at Dehra Ishmail Kahn, this species is difficult to cultivate, 'as it is necessary for the seed to pass through the intestines of a bird before it can germinate.'

"Mr. Parker writes as follows: 'I gave one seed to a bird (fowl) that was to be killed the next day and told my cook to give me the seed when drawing the bird. I have just noticed that the seed, after being put in water, has begun to germinate, so evidently the Indian fowl is good enough.'

"This species is very little known, but it is of some promise as an ornamental and even perhaps as a timber tree in some parts of the southwest." (*Swingle.*)

18638. AGAVE RIGIDA SISALANA.**Sisal.**

From Paramaribo, Surinam. Presented by Dr. C. J. J. Van Hall, Director of Agriculture for the Dutch West Indies. Received at the Porto Rico Agricultural Experiment Station, Mayaguez, P. R., in May, 1906.

"Parent plants are believed to be direct descendants of plants in the Trinidad Botanical Gardens which were brought from Yucatan, Mexico." (*Barrett.*)

18639 and 18640. ONOBRYCHIS ONOBRYCHIS.**Sainfoin.**

From Paris, France. Received through Vilmorin-Andrieux & Co., June 4, 1904.

18639. Double.

18640. Common.

18641 to 18651. CYAMOPSIS TETRAGONOLOBA.**Guar.**

From Surat, India. Presented by Mr. F. Fletcher, Deputy Director of Agriculture, Bombay Presidency. Received June 4, 1906.

Nadiad varieties:

18641.

Sotia. The seed of this variety is principally used as cattle food. It is also sown in beds of ginger, turmeric, etc., to serve as shade plants to young shoots.

18642.

Wakardia. The pods of this variety are used as a green vegetable.

18643.

Telia. This is also sown for vegetable purposes, but it is considered superior to *Wakardia* on account of its being more smooth.

18644.

Pardeshi. Used as a vegetable.

Surat varieties:

18645.

Talabda. Seed used as cattle food.

18646.

Sotia. Chiefly used as a vegetable; but in the case of valuable garden crops, such as ginger, turmeric, suran, etc., it serves a double purpose, viz, as a shade plant and as green manure.

18647.

Makhania. Used only as a vegetable.

Dhulia varieties:

18648.

Botkya. A short-podded variety used as a vegetable.

18649.

Telia. A long-podded variety used as a vegetable; cooks better than the *Botkya*.

Dharwar varieties:

18650.

Turai charali. Used as a vegetable.

18651.

Chole charali. Used as a vegetable.

18652 to 18661. DIOSCOREA spp.**Yam.**

From Mayaguez, P. R. Received at the Subtropical Laboratory and Garden, Miami, Fla., in May, 1906.

A collection of yams, as follows:

18652. DIOSCOREA TRIFIDA.

Negro or *Yampee* (ex Jamaica).

18653. DIOSCOREA TRIFIDA.

Mapuey Blanco. White roots.

18654. DIOSCOREA TRIFIDA.

Mapuey Colorado. Purple roots.

18655. DIOSCOREA PENTAPHYLLA (?)

(Ex Hawaii.)

18652 to 18661—Continued.**18656.** DIOSCOREA BULBIFERA.*Gunda.* Large irregular-shaped axillary bulbils.**18657.** DIOSCOREA ALATA (?).*Barbados Table* (ex Jamaica).**18658.** DIOSCOREA ALATA (?).*White Lisbon* (ex Jamaica).**18659.** DIOSCOREA ACULEATA.*Lucia* (ex Jamaica).**18660.** DIOSCOREA ACULEATA.*Guinea.* Best yam in Porto Rico from cultural standpoint.**18661.** DIOSCOREA ACULEATA (?).*Congo.* Yellow root.**18662.** ASPARAGUS sp.

From Peking, China. Received through Mr. F. N. Meyer, June 4, 1906.

"Berry taken from a plant growing in the Temple of Heaven grounds in Peking, September 2, 1905." (*Meyer.*)**18663 and 18664.**

From Darmstadt, Germany. Received through Mr. Conrad Appel, June 4, 1906.

18663. POA TRIVIALIS.**Rough-stalked meadow grass.****18664.** MEDICAGO SATIVA.**Alfalfa.***Provence.***18665.** PINUS INSULARIS.**Benguet pine.**

From Manila, P. I. Presented by Capt. George P. Ahern, Director of Forestry.

Received June 4, 1906.

Seed obtained from Benguet Province.

18666. HORDEUM DISTICHUM NUTANS.**Barley.**

From Brünn, Austria. Presented by Prof. J. Vanha. Received in March, 1906.

*Hama.***18667 to 18673.**

From Cape Town, South Africa. Presented by the director of the Cape Town Public Gardens. Received June 2, 1906.

18667. ABERIA CAFFRA.**Kei-apple.****18668.** ASPARAGUS CRISPUS.**18669.** ASPARAGUS SARMENTOSUS.**18670.** ASPARAGUS SPRENGERI.**18671.** CARISSA ARDUINA.**Amatungulu.****18672.** DIOSMA CRENATA.**Buchu.****18673.** OPUNTIA sp.**Prickly pear.****18674.** VICIA SATIVA.**Common vetch.**

From Portland, Oreg. Received through the Portland Seed Company, June 7, 1906.

18675 and 18676. ARACHIS HYPOGAEA.**Peanut.**

From Muanza, German East Africa. Presented by Prof. Dr. A. Zimmermann, Amani. Received June 8, 1906.

18675. A variety with red skin.

18676. A variety with brown skin.

18677. MEDICAGO SATIVA.**Alfalfa.**

From Traverse City, Mich. Received through Mr. J. M. Westgate, June 11, 1906.

Seed gathered from two-year-old plant on the farm of Mr. C. R. Dockeray, Traverse City, Mich., June 1, 1905.

18678. MEDICAGO SATIVA.**Alfalfa.**

From Split Rock, N. Y. Received through Prof. A. S. Hitchcock, June 11, 1906.

Seed gathered October 6, 1904.

18679 and 18680. ZEA MAYS.**Corn.**

From Magyar Óvár, Hungary. Presented by Prof. Kern Hermann, through Mr. Edgar Brown. Received June 2, 1906.

Two varieties of flint corn, as follows:

18679. *Cinquatino.*

18680. *Schr. früher von Alcinth.*

"These two corns are varieties of the small early flint type which is now being cultivated to a considerable extent in Hungary. They are very small in size, the ears about 6 inches long, with the kernels about the size of our larger popcorns. The grains are nearly free from starch, with a rather large embryo. On account of the small size of the stalks, this corn is planted close together, the rows being about 20 inches apart and the hills from 8 to 10 inches apart in the row. The average yield is from 20 to 25 bushels per acre." (*Brown.*)

18681 to 18683.

From Teheran, Persia. Presented by Mr. John Tyler, United States vice-consul-general. Received June 1 and 11, 1906.

18681. PAPAVER SOMNIFERUM.

Opium poppy.

18682. NICOTIANA TABACUM.

Tobacco.

18683. PISTACIA VERA.

Pistache.

"Persian 'Pista' grown in the district of Damghán, about 200 miles east of Teheran. Nuts from this place have the reputation of being the best, purest, and most qualified to resist attacks of parasites." (*Tyler.*)

18684. ANDROPOGON SORGHUM.**Milo.**

From Memphis, Tex. Received through Mr. J. F. Bradley, June 13, 1906.

Extra Dwarf.

18685 to 18688.

From Honolulu, Hawaii. Presented by Hon. David Haugh, acting director of Forestry. Received June 11, 1906.

18685. BAUHINIA TOMENTOSA.

St. Thomas tree.

18686. CASUARINA GLAUCA.

Blue ironwood.

18687. CASUARINA STRICTA.

Australian ironwood.

18688. SYNCARPIA LAURIFOLIA.

Turpentine tree.

18689 to 18691. CHENOPODIUM QUINOA.**Quinoa.**

From La Paz, Bolivia. Received through Señor M. V. Ballovia, Ministerio de Colonias y Agricultura, June 14, 1906.

18689. *Common.*

18691. *Kanagua.*

18690. *Royal.*

(See Nos. 18536 and 18537.)

18692. TRIFOLIUM REPENS.**White clover.**

From Lodi, Italy. Received through Prof. Carlo Besana, June 16, 1906. Introduced by Mr. Edgar Brown, of the Bureau of Plant Industry.

Lodino.

18693 to 18698. PHOENIX DACTYLIFERA.**Date.**

From M'Zab, in the Algerian Sahara. Received through Mr. Yahia ben Kassem, June 16, 1906.

According to Mr. Yahia ben Kassem this lot includes the varieties *Tazzizaoute* and *Bent Khaba*. Upon examination of the offshoots, however, Mr. Swingle found a label, written in Arabic, upon each of the plants, which he succeeded in deciphering as *Timjoohert*, which is described in his letter as follows:

Timjoohert. A soft date from the M'Zab region of the Algerian Sahara; fruit of a rich, red-brown color when ripe, $1\frac{1}{2}$ to $1\frac{3}{4}$ inches long, three-fourths to seven-eighths inch wide; flesh without fiber, very sweet, and of exceedingly good flavor, considered by some to be superior to the *Deglet noor*. It is a sticky date and its sirupy juice exudes from the ripening fruit in such abundance as to drip from the tree. It will require a process of curing to get rid of this sirup, but this variety is of such good quality that it may, nevertheless, prove profitable in commercial culture, especially in regions where the *Deglet noor* can not mature. It may furnish a good second-class date which can be sold in competition with the selected Oriental dates which now reach our markets from Busra and Muscat.

18699 and 18700.

From Darmstadt, Germany. Received through A. Le Coq & Co., June 16, 1906.

18699. *MELILOTUS ALBA.*

Sweet clover.

Bokhara.

18700. *VICIA VILLOSA.*

Hairy vetch.

18701 to 18703.

From Reading, England. Received through Sutton & Sons, June 15, 1906.

18701. *CRAMBE MARITIMA.*

Sea kale.

18702. *CYNARA SCOLYMUS.*

Artichoke.

Purple Globe.

18703. *CYNARA SCOLYMUS.*

Artichoke.

Selected Large Green.

18704. CHRYSOPHYLLUM sp.

From Piracicaba, Brazil. Presented by Dr. J. W. Hart, director of the Agricultural College. Received June 7, 1906.

18705. PANICUM LAEVIFOLIUM.

From Pretoria, Transvaal. Presented by Prof. J. Burt Davy, of the Transvaal Department of Agriculture. Received June 18, 1906.

18706. AMYGDALUS DAVIDIANA.

From Peking, China. Received through Mr. F. N. Meyer (No. 167a), May 18, 1906.

Seeds of the wild peach, scions of which were sent under Nos. 126, 127, and 129 (S. P. I. Nos. 17729 to 17731); from the mountains near Fangshan.

18707. GLYCINE HISPIDA.**Soy bean.**

From China. Renumbered for convenience in recording distribution, June 21, 1906.

A dull reddish brown colored variety of soy beans, the actual source of which is in doubt.

18708 to 18725.

From San Jose, Costa Rica. Presented by Mr. E. C. Rost, through Mr. L. C. Corbett, horticulturist of the Bureau of Plant Industry. Received June 20, 1906.

A collection mostly of economic plants, with notes by Mr. E. C. Rost.

18708. (Undetermined.)

An evergreen vine with white, star-shaped flowers.

18709. (Undetermined.)**Palm.****18710. CARICA PAPAYA.****Papaw.****18711. IPOMOEA sp.****Morning-glory.**

Seed of a wild variety.

18712. IPOMOEA sp.**Morning-glory.**

Blue Giant.

18713. CANNA sp.**18714. (Undetermined.)****Gavilana.**

A tree with leaves like the American mountain ash; has yellow flowers somewhat resembling the locust. Should do well in the extreme south.

18715. ANONA sp.**18716. COBAEA SCANDENS.****18717. MUCUNA sp.****18718. (Undetermined.)****18719. ARGEMONE MEXICANA.****Mexican poppy.****18720. (Undetermined.)**

Seed, in a flat, round, spiny pod resembling a sea urchin. Grows on a tall tree with yellow flowers.

18721. GOSSYPIUM sp.**Cotton.**

A few seeds of everbearing, large, native tree cotton.

18722. SOLANUM TUBEROSUM.**Potato.**

Pacaya.

18723. SOLANUM TUBEROSUM.**Potato.**

A potato introduced from Peru.

18724. SOLANUM TUBEROSUM.**Potato.**

A yellow-colored potato introduced from Peru.

18725. SOLANUM TUBEROSUM.**Potato.**

A dark wine-colored potato introduced from Peru.

18726. DOLICHOS LUBIA.

From Paris, France. Received through Messrs. Vilmorin-Andrieux & Co., June 22, 1906.

18727 to 18749.

From Bahama Islands, British West Indies. Collected by Mr. P. J. Wester in April, 1906.

A collection of plants, seeds, and cuttings thought to be of value in the subtropical region of Florida, either as economics or ornamentals, the proximity to the Bahamas and nearly similar climatic conditions making it very probable that these introductions will thrive well in the vicinity of Miami, where they have been planted in the Subtropical Laboratory and Garden.

The accompanying notes are by Mr. Wester.

18727. CITRUS DECUMANA.**Pomelo.**

"Mr. Flagler is reported to have said that he ate better pomelos in the Bahamas, from seedling trees, than any that he tasted in Florida. Upon inquiry it was found that some of this fruit had been supplied by R. S. Johnstone, circuit judge, Nassau, New Providence, Bahamas, who, on solicitation, presented me with budwood from two seedling trees, the fruit of which he considered very superior. The fruit is said to be rather small, but very juicy and sweet." (Lab. No. 460.)

18728. CITRUS DECUMANA.**Pomelo.**

"Fruit said to be of superior value. Budwood presented by Judge R. S. Johnstone." (Lab. No. 461.)

18729. PERSEA GRATISSIMA.**Avocado.**

Johnstone. "Budwood secured through Judge R. S. Johnstone, who gave the following description of the fruit: 'Pear-shaped, but rather broad at basal end; skin smooth, thin; flesh yellow, almond-flavored; seed large; famous as the best avocado in the Bahamas. Ripens in August and September.'" (Lab. No. 462.)

18730. PERSEA GRATISSIMA.**Avocado.**

Largo. "Budwood presented by Mr. C. H. Matthews, from a large tree. He described the fruit as follows: 'Egg-shaped; very large, 3½ to 4 pounds in weight; skin green, very thin; flavor very good; seed small; ripens in August and September.'" (Lab. No. 464.)

18731. PERSEA GRATISSIMA.**Avocado.**

Grant. "Buds secured from a tree in Grantown, said by its colored owner to bear extra early fruit of good quality. The young fruits were well advanced in size for the season when the budwood was obtained, which seemed to substantiate the owner's assertion." (Lab. No. 465.)

18732. HIBISCUS ROSA-SINENSIS.**Chinese hibiscus.**

"Budwood secured from plants in the garden of Hotel Colonial, Nassau, New Providence. Flowers distinct from any of the forms seen in Florida; semidouble, very dark red with a purple tinge, making it a distinct acquisition." (Lab. No. 467.)

18733. VANILLA sp.

"Plants collected on Soldiers road, New Providence. This vanilla grows on land of a very rocky character with a scanty layer of soil. The vegetation does not exceed 12 feet, and the average height of a shrub is 8 feet. It was interesting to note that the foliage was very sparse, affording very little shade. The growth of the vanilla was exceedingly stocky and strong. In appearance the plant resembles the *V. eggersii* in Florida, except that the bract-like leaves of the latter are entirely absent in the Bahama species. The nodes on the latter species are also closer than those on the species from Florida." (Lab. No. 470.)

18727 to 18749—Continued.**18734. FICUS BENJAMINA.**

"Used as a shade tree on the streets of Nassau, New Providence. Unquestionably one of the most noble and majestic of shade trees, with dark evergreen foliage. Appears to stand the dust and heat of the street better than any tree I have seen. Cuttings presented by M. Clavel, head gardener, Hotel Colonial, Nassau, New Providence." (Lab. No. 473.)

18735. (Undetermined.)

"Native name 'Spanish Thyme.' A plant belonging to the family Scrophulariaceae, with fleshy, succulent leaves used in the Bahamas for flavoring soups. Cuttings secured in Grantown, New Providence." (Lab. No. 474.)

18736. ANONA RETICULATA.**Custard apple.**

"Budwood secured from a tree in Grantown, having very large fruit, 14 $\frac{1}{2}$ inches in circumference. Fruit heart-shaped, yellow, netted with crimson veins, crimson on one side, making it exceedingly handsome; tree said by owner to be very prolific. Fruit of good quality." (Lab. No. 478.)

18737. ANONA MURICATA.**Soursop.**

"Budwood secured from a prodigiously prolific tree. As fruits were not mature, there was no opportunity to judge of the quality." (Lab. No. 484.)

18738. TAMARINDUS INDICA.**Tamarind.**

"Budwood obtained from Judge R. S. Johnstone, Nassau, New Providence. Pods with the acid so reduced as to make them relished when eaten direct from the tree, which is unusual with this fruit." (Lab. No. 487.)

18739. ALTHAEA ROSEA.**Hollyhock.**

"A striking and conspicuous ornamental in Nassau, where it has become naturalized." (Lab. No. 489.)

18740. BASELLA ALBA.**Malabar nightshade.**

"Native name 'Spinach.' A plant of running and climbing habit of exceedingly vigorous growth. The leaves have a very close resemblance to spinach in form, whose tenderness and succulency they possess, and are used as spinach in the Bahamas. As the plants thrive well even during the summer months, it is thought that they will prove a valuable acquisition to the vegetable garden in south Florida during the summer months. Seed secured in Grantown, New Providence." (Lab. No. 490.)

18741. CATESBAEA SPINOSA.

"Seed obtained from M. Clavel, head gardener, Hotel Colonial. Leaves evergreen, thick and leathery; branches armed with stout spines, making it a valuable hedge plant; flowers attractive, bell shaped, cream colored." (Lab. No. 492.)

18742. ZEA MAYS.**Corn.**

"*Native yellow* corn presented by Mr. W. M. Cunningham, curator, Botanic Station, Nassau, New Providence. This is a variety of corn collected by Mr. Cunningham, together with Nos. 18743 to 18745, on the various islands where these varieties do quite well. South Florida has at present no variety suited to its conditions, and as the climate here and in the Bahamas is very similar, it is not improbable that some of these varieties may prove valuable introductions." (Lab. No. 495.)

18743. ZEA MAYS.**Corn.**

Governor. "Presented by Mr. W. M. Cunningham. Native to the Bahama Islands." (Lab. No. 496.)

18744. ZEA MAYS.**Corn.**

Native white. "Native to the Bahamas. Presented by Mr. W. M. Cunningham." (Lab. No. 497.)

18727 to 18749—Continued.**18745.** ZEA MAYS.**Corn.**

Caicos yellow. "Native to the Bahamas. Presented by Mr. W. M. Cunningham." (Lab. No. 425.)

18746. DOLICHOS LABLAB.**Hyacinth bean.**

"Native name *Bonarvis*. A very vigorous climbing and trailing plant, foliage resembling the cowpea, but far more vigorous. Stems slightly tinged with purple; seeds dark brown with velvety luster. Seed secured from plants growing in Grantown, New Providence." (Lab. No. 488.)

18747. DOLICHOS LABLAB.**Hyacinth bean.**

"Native name *Bonarvis*. A leguminous plant with habits similar to No. 18746. The purple tinge of the stem is absent; flowers are creamy white; seed white, and much relished by the natives in cooking. Seed secured from plants growing in Grantown, New Providence." (Lab. No. 499.)

18748. PHARBITIS sp.**Morning-glory.**

"Seed collected from native plants in Nassau, New Providence. Plants climbing, but seldom 4 feet in height; foliage tomentose; flowers pale blue, about 2 inches in diameter, exceedingly ornamental and strikingly different from species of *Ipomoea*."

18749. RESEDA sp.**Mignonette.**

"Seed obtained from Mr. C. H. Matthews, Nassau, New Providence. A very handsome ornamental; leaves pinnatifid, of a silvery white tinge; stems 2 feet, bare, with a long spike of white flowers. A perennial."

18750. SINAPIS ALBA.**White mustard.**

From Moscow, Russia. Received through Immer & Son, June 25, 1906.

*Sarepta.***18751.** MEDICAGO SATIVA.**Alfalfa.**

From New York, N. Y. Received through H. Nungesser & Co., June 25, 1906.

*Turkestan.***18752 to 18763.**

From Singapore, Straits Settlements. Presented by Prof. H. N. Ridley, director of the Botanic Gardens. Received June 29, 1906.

18752. AMORPHOPHALLUS PRAINII.**18758.** ALOCASIA INDICA.**18753.** AMORPHOPHALLUS REX.**18759.** ALOCASIA SINGAPORENSIS.**18754.** AMORPHOPHALLUS SATIVUS.**18760.** ALOCASIA MACRORHIZA.**18755.** ALOCASIA LOWII.**18761.** NANTHOSOMA VIOLACEUM.**18756.** ALOCASIA GRANDIS.**18762.** NANTHOSOMA ROBUSTUM.**18757.** ALOCASIA LONGILOBA.**18763.** TYPHONIUM TRIBOLATUM.**18764.** ASPARAGUS MYRIOCLADUS.

From Berea, Durban, Natal. Presented by J. Medley Wood, director of the Natal Botanic Gardens. Received June 30, 1906.

18765. GARCINIA XANTHOCHYMUS.

From Honolulu, Hawaii. Presented by Mr. E. W. Jordan, through Mr. Gerrit P. Wilder. Received July 2, 1906.

18766 to 18770.

From Piracicaba, Brazil. Presented by Dr. J. W. Hart, director of the Agricultural College. Received June 7, 1906.

18766. ANONA sp.

Ariticu or *Cubeca de negro* (negro head). "Segmented fruit, heart-shaped, about 20 centimeters in diameter, sweet, aromatic, edible. Tree 15 meters, spreading, grows on poor, sandy land on the open prairie." (*Hart.*) (No. 16.)

18767. ANONA sp.

Fruita de Conde. "Similar to preceding, but the fruit is much superior. This variety has been domesticated." (*Hart.*) (No. 17.)

18768. ARAUCARIA BRASILIANA.

(No. 22.)

18769. PSIDIUM GUAJAVA.

Guava.

Red. (No. 12.)

18770. PSIDIUM GUAJAVA.

Guava.

White. (No. 13.)

18771 and 18772.

From Salisbury, Rhodesia, South Africa. Received from Hon. E. Ross Townsend, Secretary for Agriculture, through Mr. W. A. Driver, Dinuba, Cal., June 30, 1906. (See Nos. 12810 and 12959, Inventory No. 11.)

18771. (Undetermined.)

Marula.

18772. (Undetermined.)

Matundulaku.

18773. CARICA PAPAYA.

Papaw.

From Manila, P. I. Presented by Mr. W. S. Lyon, horticulturist, Bureau of Agriculture. Received June 29, 1906.

18774 to 18785.

From Mexico. Received through Mr. G. Onderdonk, July 5, 1906.

18774 to 18782. PRUNUS ARMENIACA.

Apricot.

18774. *Onderdonk's No. 18.*

"From place of C. Ramirez, Lagos, Jalisco. Fruit yellow, light blush, sweet, freestone, circumference 4 inches."

18775. *Onderdonk's No. 19.*

"From place of Francisco Gomez Garcia, Lagos, Jalisco. Fruit white, 4½ inches in circumference."

18776. *Onderdonk's No. 20.*

"From place of Enrique Maupin, Aguascalientes. Fruit yellow, light blush, sweet, 5 inches in circumference."

18777. *Onderdonk's No. 21.*

18778. *Onderdonk's No. 22.*

18779. *Onderdonk's No. 23.*

18780. *Onderdonk's No. 24.*

"Nos. 18777 to 18780 are from Señor Maupin's orchard at Aguascalientes. They are all of the same general character, yellow with faint blush, fruit from 4 to 5 inches in circumference."

18781. *Onderdonk's No. 15.*

Nellie. (See No. 9844, Inventory No. 10.)

18782. *Onderdonk's No. 16.*

Dorah. (See No. 9845, Inventory No. 10.)

18774 to 18785—Continued.**18783.** AMYGDALUS PERSICA.**Peach.**

Procured by Mr. Oderdonk's son from El Cobre Mountain, near Guadalajara. "A very large, yellow, clingstone peach."

18784 and 18785. MALUS MALUS.**Apple.****18784.**

Peron. From place of Mr. J. R. Silliman, Saltillo. (See No. 9014, Inventory No. 10.)

18785.

Procured by Mr. Onderdonk's son from El Cobre Mountain. "Very large, rich flavor, greenish color, yellowing slightly as it ripens. No better apple in Mexico."

18786 to 18800.

From La Paz, Bolivia. Presented by Señor M. V. Ballovian, Ministerio de Colonias y Agricultura. Received July 6, 1906.

18786 to 18798. SOLANUM TUBEROSUM.**Potato.****18786.** *Phinu.***18793.** *Ajahuira.***18787.** *Lugui.***18794.** *Queni.***18788.** *Pitiquilla.***18795.** *Phureja.***18789.** *Chiarimilla.***18796.** *Koilla.***18790.** *Khati.***18797.** (Label missing.)**18791.** *Monda.***18798.** *Ajahuira.***18792.** *Socco.*

The label for No. 18798, *Ajahuira*, is the same as that for No. 18793, and it is not known to which lot it properly belongs, as the consignment was mixed in transit. The tubers are not alike.

18799 and 18800. OXALIS TUBEROSA.**Oca.****18799.** *Rosada.***18800.** *Morada.***18801. (Undetermined.)**

From Piracicaba, Brazil. Presented by Dr. J. W. Hart, director of the Agricultural College. Received July 7, 1906.

Native name *Caja manga*. (Hart's No. 35.)

18802 to 18823.

From Erfurt, Germany. Received through Messrs. Haage and Schmidt, July 9, 1906.

18802. MEDICAGO MEDIA.**Sand lucern.****18803.** VICIA CALCARATA.**18814.** VICIA MICHAUXII.**18804.** VICIA CORDATA.**18815.** VICIA NARBONENSIS.**18805.** VICIA CORNIGERA.**18816.** VICIA ONOBRYCHIOIDES.**18806.** VICIA CUSPIDATA.**18817.** VICIA PANNONICA.**18807.** VICIA DISPERMA.**18818.** VICIA PEREGRINA.**18808.** VICIA FERRUGINEA.**18819.** VICIA PICTA.**18809.** VICIA GERARDI.**18820.** VICIA PSEUDO-CRACCA.**18810.** VICIA GLOBOSA.**18821.** VICIA SPURIA.**18811.** VICIA GRANDIFLORA.**18822.** VICIA STRIATA.**18812.** VICIA HYBRIDA.**18823.** VICIA TRICOLOR.**18813.** VICIA MACROCARPA.

18824 to 18826. ORYZA SATIVA. Rice.

From Persia. Presented by Mr. John Tyler, United States vice-consul-general, Teheran, Persia. Received July 6, 1906.

Three samples of unhulled rice from the region south of the Caspian Sea. These samples of rice were given to Mr. Tyler by a friend whose official title is "The Sepahdor" (Commander), who owns large areas where rice of the best sorts are grown. The samples received are of three kinds and from three separate districts, but no labels accompanied them to indicate which was which.

18824. Long slender grain, light hull.

18825. Long slender grain, light hull.

18826. Short flat grain, darker hull.

18827. MEDICAGO SATIVA. Alfalfa.

From Chicago, Ill. Received through the A. Dickinson Company, July 9, 1906.

18828. CARICA PAPAYA. Papaw.

From Columbia, Isle of Pines, West Indies. Presented by Dr. F. K. Ramsdell. Received July 10, 1906.

18829 and 18830. ANDROPOGON SORGHUM.

From Channing, Tex. Received through Mr. J. J. Edgerton, July 13, 1906.

18829. **Kafir corn.**

Black-Hulled White.

18830. **Milo.**

Dwarf.

18831 to 18834. CYNARA SCOLYMUS. Artichoke.

From Milan, Italy. Received through Fratelli Ingegnoli, July 16, 1906.

18831. *Grosso d'Italian.* **18833.** *Sensa Spine di Venezia.*

18832. *Violetto di Provenza.* **18834.** *Palla di Roma.*

18835 to 18912. FICUS CARICA. Fig.

From Niles, Cal. Received through the California Nursery Company at the Plant Introduction Garden, Chico, Cal., in March, 1906.

Nos. 18835 to 18898, inclusive, are from the Chiswick collection. A description of these varieties will be found in Bulletin No. 9, Division of Pomology, 1901.

18835. *De l'Archipel.* **18847.** *Bourjassote Grise.*

18836. *Bontard.* **18848.** *A' Bois Jaspee.*

18837. *Grosse Marseilles.* **18849.** *Royal Vineyard.*

18838. *Peau dure.* **18850.** *De Grasse.*

18839. *Negronne.* **18851.** *Euscaire Preto.*

18840. *Bourjassote noire.* **18852.** *Trois Recoltes.*

18841. *Poulette.* **18853.** *Monaco Bianco.*

18842. *Oeil de Perdrix.* **18854.** *Bondance Precoce.*

18843. *Du Roi.* **18855.** *Trifer.*

18844. *Grosse Violette de Bordeaux.* **18856.** *Green Ischia.*

18845. *Datte.* **18857.** *Hirta du Japon.*

18846. *Monstrueuse.* **18858.** *St. Johns.*

18835 to 18912—Continued.

18859. <i>Vebra.</i>	18886. <i>White Ischia.</i>
18860. <i>Datte Quotidienne.</i>	18887. <i>Brown Turkey.</i>
18861. <i>Arbal.</i>	18888. <i>Pastiliere.</i>
18862. <i>De Jerusalem.</i>	18889. <i>Negro Largo.</i>
18863. <i>Nebian.</i>	18890. <i>De La Mudeleine.</i>
18864. <i>Vigasotte Bianco.</i>	18891. <i>Col de Signora Bianco.</i>
18865. <i>Grise Sarantine bifere.</i>	18892. <i>Dorer Nobis.</i>
18866. <i>Quarteria.</i>	18893. <i>Pingo de Mel.</i>
18867. <i>Douro Vebra.</i>	18894. <i>Black Ischia.</i>
18868. <i>Reculver.</i>	18895. <i>Toulousienne.</i>
18869. <i>Gouraud Rouge.</i>	18896. <i>Gouraud Noir.</i>
18870. <i>D'Agen.</i>	18897. <i>Dorce.</i>
18871. <i>Lampa.</i>	18898. <i>Brunswick.</i>
18872. <i>Large Black Douro.</i>	18899. <i>Gentile.</i>
18873. <i>Adam.</i>	18900. <i>White Adriatic.</i>
18874. <i>De Constantine.</i>	18901. <i>Pacific white.</i>
18875. <i>Biberao.</i>	18902. <i>Vendome.</i>
18876. <i>Grosse Verte.</i>	18903. <i>Barbillonne.</i>
18877. <i>Violette Sepor.</i>	18904. <i>Figueires Blanch.</i>
18878. <i>Dr. Hoggs Clare.</i>	18905. <i>Warren's Brown Turkey.</i>
18879. <i>Hardy Prolific.</i>	18906. <i>Capri Milco.</i>
18880. <i>Figue d'Or.</i>	18907. <i>Trojano.</i>
18881. <i>Reconusse noire.</i>	18908. <i>Capri Solus No. 1.</i>
18882. <i>Black Douro.</i>	18909. <i>Capri Solus No. 2.</i>
18883. <i>Grassale.</i>	18910. <i>Capri Solus No. 3.</i>
18884. <i>Martinique.</i>	18911. <i>Capri Solus No. 4.</i>
18885. <i>Crare.</i>	18912. <i>Dauphine.</i>

18913. TRIFOLIUM PRATENSE.**Red clover.**

From Emilia, Italy. Presented by William G. Scarlett & Co., Baltimore, Md.
Received in April, 1906.

18914. PINUS KORAIENSIS (?).**Pine.**

From Manchuria. Presented by the Yokohama Nursery Company, Yokohama,
Japan. Received July 5, 1905.

Seed of a 5-needled pine obtained at the base of Heirai Mountain, Manchuria.

18915 to 18921. ORYZA SATIVA.**Rice.**

From Cairo, Egypt. Received through Mr. George P. Foaden, secretary of the
Khedivial Agricultural Society, July 5, 1906.

18915. <i>Ein el Bent.</i>	18919. <i>Agemi.</i>
18916. <i>Sua.</i>	18920. <i>Saltani.</i>
18917. <i>Italian Rungfino.</i>	18921. <i>Japonais.</i>
18918. <i>Fino.</i>	

18922 and 18923.

From Kashgar, Eastern Turkestan. Presented by Rev. P. J. P. Hendriks.
Received July 20, 1906.

18922. *HORDEUM VULGARE.*

Barley.

"A variety which is said to require only one month without frost. Grown in the mountain regions near Kashgar, Eastern Turkestan." (*Hendriks.*)

18923. *RICINUS COMMUNIS.*

Castor-oil plant.

Seed of a medium-sized variety.

18924. MANGIFERA INDICA.

Mango.

From Miami, Fla. Received through the Subtropical Laboratory and Garden,
July 23, 1906.

Turpentine. Seed for growing stocks upon which to inarch standard varieties.

18925. ANONA CHERIMOLIA.

Cherimoyer.

From Salta Province, Argentina. Presented by Mr. Ernest Nelson, of Sharon,
Mass. Received July 13, 1906.

18926 to 18940. ANDROPOGON SORGHUM.

Sorghum.

From Chillicothe, Tex. Grown in 1905 at the Government Farm, and distributed from same place.

18926. *Djougara balki.* Grown from Agrost. No. 1579.

18927. *Planter's Friend.* Grown from Agrost. No. 1604.

18928. *Amber.* Grown from Agrost. No. 1606.

18929. *Amber.* Grown from Agrost. No. 1658.

18930. *Planter's Friend.* Grown from Agrost. No. 1659.

18931. *Amber.* Grown from Agrost. No. 1747.

18932. *Black-seeded.* Grown from Agrost. No. 2114.

18933. *Edra.* Grown from S. P. I. No. 8815.

18934. *Dshugara Balcha.* Grown from S. P. I. No. 9796.

18935. *Dagdi Jowar.* Grown from S. P. I. No. 9856.

18936. *Djugara.* Grown from S. P. I. No. 10612.

18937. *White.* Grown from S. P. I. No. 13317.

18938. *Red.* Grown from S. P. I. No. 13318.

18939. *Gare.* Grown from S. P. I. No. 14504.

18940. *White of Rey Bareilly.* Grown from S. P. I. No. 14635.

18941. LATHYRUS SATIVUS.

Bitter vetch.

From Clarinda, Iowa. Received through the A. A. Berry Seed Company, July
27, 1906.

18942 to 19057.

From Mexico and southwestern United States. Collected by Mr. David Griffiths,
of this Department, and forwarded to the Plant Introduction Garden, Chico,
Cal., during the summer of 1905.

The numbers in parentheses are those of Mr. Griffiths.

18942. *OPUNTIA* sp.

Tuna.

From El Paso, Tex. (8020.)

18942 to 19057—Continued.

- 18943.** *OPUNTIA* sp. **Tuna.**
From El Paso, Tex. (8021.)
- 18944.** *NOPALEA* sp.
From San Mateo, Mexico. (8027.)
- 18945.** *OPUNTIA* sp. **Tuna.**
Nopal cristilena. From Cardenas, Mexico. (8030.)
- 18946 to 19057.** *OPUNTIA* sp. **Tuna.**
- 18946.** From Cardenas, Mexico. (8031.)
- 18947.** From Cardenas, Mexico. (8032.)
- 18948.** From San Luis Potosi, Mexico. (8034.)
- 18949.** From San Luis Potosi, Mexico. (8035.)
- 18950.** *Nopal Cuijo.* From San Luis Potosi, Mexico. (8036.)
- 18951.** *Nopal ranchero.* From San Luis Potosi, Mexico. (8037.)
- 18952.** *Nopal palmito.* From San Luis Potosi, Mexico. (8038.)
- 18953.** From San Luis Potosi, Mexico. (8039.)
- 18954.** *Nopal canueso.* From San Luis Potosi, Mexico. (8040.)
- 18955.** From San Luis Potosi, Mexico. (8041.)
- 18956.** From San Luis Potosi, Mexico. (8042.)
- 18957.** *Nopal tapon.* From San Luis Potosi, Mexico. (8043.)
- 18958.** *Nopal.* From San Luis Potosi, Mexico. (8044.)
- 18959.** *Tuna castilla blanca.* From San Luis Potosi, Mexico. (8045.)
- 18960.** *Nopal charol.* From San Luis Potosi, Mexico. (8046.)
- 18961.** From San Luis Potosi, Mexico. (8047.)
- 18962.** From San Luis Potosi, Mexico. (8048.)
- 18963.** *Nopal jocoquillo.* From San Luis Potosi, Mexico. (8049.)
- 18964.** From San Luis Potosi, Mexico. (8050.)
- 18965.** From Alonzo, Mexico. (8053.)
- 18966.** From Alonzo, Mexico. (8055.)
- 18967.** From San Luis Potosi, Mexico. (8058.)
- 18968.** *Nopal jarrillo.* From San Luis Potosi, Mexico. (8061.)
- 18969.** From San Luis Potosi, Mexico. (8062.)
- 18970.** From San Luis Potosi, Mexico. (8063.)
- 18971.** From San Luis Potosi, Mexico. (8064.)
- 18972.** *Nopal cardon blanco.* From Hepasote, Mexico. (8067.)
- 18973.** *Nopal opatillo.* From Hepasote, Mexico. (8068.)
- 18974.** *Tuna amarilla blanca.* From Hepasote, Mexico. (8069.)
- 18975.** From Hepasote, Mexico. (8071.)
- 18976.** From Hepasote, Mexico. (8072.)
- 18977.** *Maneya.* From Hepasote, Mexico. (8073.)
- 18978.** From Hepasote, Mexico. (8074.)
- 18979.** *Nopal San Juanero.* From Hepasote, Mexico. (8075.)
- 18980.** *Nopal loro.* From Hepasote, Mexico. (8076.)
- 18981.** From Hepasote, Mexico. (8077.)

18942 to 19057—Continued.

- 18982.** *Nopal blanco liso.* From Hacienda Los Campos, Mexico. (8079.)
- 18983.** *Nopal durasnillo.* From Aguascalientes, Mexico. (8081.)
- 18984.** *Nopal durasnillo.* From Aguascalientes, Mexico. (8082.)
- 18985.** From Aguascalientes, Mexico. (8083.)
- 18986.** *Nopal joconotle.* From Aguascalientes, Mexico. (8084.)
- 18987.** *Nopal joconotle.* From Aguascalientes, Mexico. (8086.)
- 18988.** From Aguascalientes, Mexico. (8087.)
- 18989.** From Aguascalientes, Mexico. (8088.)
- 18990.** *Nopal joconotle.* From Aguascalientes, Mexico. (8089.)
- 18991.** From Aguascalientes, Mexico. (8090.)
- 18992.** From Aguascalientes, Mexico. (8091.)
- 18993.** *Nopal tapon.* From Aguascalientes, Mexico. (8092.)
- 18994.** *Spineless.* From Aguascalientes, Mexico. (8094.)
- 18995.** From Aguascalientes, Mexico. (8101.)
- 18996.** From Encarnacion, Mexico. (8102.)
- 18997.** *Nopal liso.* From Encarnacion, Mexico. (8103.)
- 18998.** From Los Sauces, Mexico. (8104.)
- 18999.** *Nopal colorado.* From Los Sauces, Mexico. (8105.)
- 19000.** From Los Sauces, Mexico. (8106.)
- 19001.** From Los Sauces, Mexico. (8107.)
- 19002.** From Los Sauces, Mexico. (8108.)
- 19003.** *Cascaron.* From Los Sauces, Mexico. (8109.)
- 19004.** *Durasnillo.* From Los Sauces, Mexico. (8110.)
- 19005.** From Los Sauces, Mexico. (8111.)
- 19006.** From Dublan, Mexico. (8113.)
- 19007.** From Dublan, Mexico. (8114.)
- 19008.** From Dublan, Mexico. (8114a.)
- 19009.** From Dublan, Mexico. (8115.)
- 19010.** From Dublan, Mexico. (8119.)
- 19011.** From Dublan, Mexico. (8121.)
- 19012.** From Guadalajara, Mexico. (8125.)
- 19013.** From Guadalajara, Mexico. (8126.)
- 19014.** From Guadalajara, Mexico. (8127.)
- 19015.** From Guadalajara, Mexico. (8128.)
- 19016.** From Guadalajara, Mexico. (8130.)
- 19017.** From Aguascalientes, Mexico. (8138.)
- 19018.** *Nopal camueso.* From Zacatecas, Mexico. (8140.)
- 19019.** *Pachou.* From Zacatecas, Mexico. (8141.)
- 19020.** *Nopal naranjado.* From Zacatecas, Mexico. (8142.)
- 19021.** *Nopal durasnillo.* From Gutierrez, Mexico. (8143.)
- 19022.** From Zacatecas, Mexico. (8145.)
- 19023.** *Nopal blanco.* From Zacatecas, Mexico. (8146.)

18942 to 19057—Continued.

- 19024.** From Zacatecas, Mexico. (8147.)
- 19025.** From Zacatecas, Mexico. (8148.)
- 19026.** From Zacatecas, Mexico. (8149.)
- 19027.** From Torreon, Mexico. (8151.)
- 19028.** From Torreon, Mexico. (8152.)
- 19029.** From El Paso, Tex. (8153.)
- 19030.** From Tucson, Ariz. (8154.)
- 19031.** From Celero Mountains, Ariz. (8157.)
- 19032.** From Santa Rita Mountains, Ariz. (8158.)
- 19033.** From Santa Rita Mountains, Ariz. (8159.)
- 19034.** From Santa Rita Mountains, Ariz. (8160.)
- 19035.** From Santa Rita Mountains, Ariz. (8161.)
- 19036.** From Santa Rita Mountains, Ariz. (8162.)
- 19037.** From Santa Rita Mountains, Ariz. (8163.)
- 19038.** From Santa Rita Mountains, Ariz. (8164.)
- 19039.** From Santa Rita Mountains, Ariz. (8165.)
- 19040.** From Santa Rita Mountains, Ariz. (8166.)
- 19041.** From Santa Rita Mountains, Ariz. (8167.)
- 19042.** From Santa Rita Mountains, Ariz. (8168.)
- 19043.** From Santa Rita Mountains, Ariz. (8169.)
- 19044.** From Santa Rita Mountains, Ariz. (8170.)
- 19045.** From Santa Rita Mountains, Ariz. (8171.)
- 19046.** From Santa Rita Mountains, Ariz. (8172.)
- 19047.** From San Antonio, Tex. (8174.)
- 19048.** From San Antonio, Tex. (8175.)
- 19049.** From San Antonio, Tex. (8176.)
- 19050.** From Mexico.
- 19051.** From Mexico.
- 19052.** From Mexico.
- 19053.** From Mexico. (8076.)
- 19054.** From San Antonio, Tex. (8182.)
- 19055.** From T. S. Brandegee (No. 1), San Diego, Cal.
- 19056.** From T. S. Brandegee (No. 2), San Diego, Cal.
- 19057.** From T. S. Brandegee (No. 3), San Diego, Cal.

INDEX OF COMMON AND SCIENTIFIC NAMES.

- Aberia caffra*, 18667.
Abroma augusta, 18475.
Abutilon aricennae, 17529, 18450.
Acacia sp., 18549.
 jarnesiana, 18508.
Acer sp., 17897, 17898.
 mono, 18578.
Actinidia sp., 18285.
 chinensis, 18535, 18584.
Actinorhysis calapparia, 17140.
Aegilops macrochaeta, 17792.
 macrura, 17794.
 orata, 17795.
 squarrosa, 17796.
 triaristata, 17797.
 truncialis, 17798.
Aesculus chinensis, 17736.
Agave lecheguilla, 17715.
 rigida sisalana, 17437, 17716, 18244, 18638.
Agropyron acutum, 17799.
 cristatum, 17826.
 elymoides, 17827.
 muricatum, 17800.
 occidentale, 17699.
 pusgens, 16895.
 repens, 17824, 17828, 17829, 17831.
 tenerum, 17489.
Agrostis alba, 16829 to 16832, 17837.
 cacina, 18413.
 stolonifera, 16828, 17963.
Albizzia lebbek, 18509.
Alfalfa, Arabian, 18627, 18628.
 Jet, 18627, 18628.
 (Mexico), 17163.
 Provence, 18418, 18664.
 (Spain), 17902.
 Turkestan, 17281, 18247, 18391, 18425, 18751.
 (Utah), 17449.
 See also *Medicago sativa*.
Almond. (Baluchistan), 18238.
 (Italy), 17106 to 17130.
 See also *Amygdalus communis*.
Alocasia grandis, 18756.
 indica, 17103, 18383, 18384, 18758.
 longiloba, 18757.
 lorii, 18755.
 macrorhiza, 17236, 18760.
 singaporensis, 18759.
Alopecurus brachystachyus, 16800.
 pratensis, 16849, 18414, 18484.
 ventricosus, 17063.
Alsike. See *Trifolium hybridum*.
Althaea rosea, 18739.
Altingia chinensis, 18569.
Amatungulu. See *Carissa arduina*.
Anomum melegueta, 16945.
Amorphophallus campanulatus, 17101.
 18387.
 pratensis, 18752.
 rex, 18753.
 sativas, 18386, 18754.
Ampelopsis sp., 17938, 17939, 17940, 17942, 18280, 18281, 18284, 18292, 18293.
Amygdalus communis, 17106 to 17130, 18238, 18280, 18281, 18284, 18292, 18293.
 daurica, 17729 to 17731, 18595, 18706.
 persica, 16919, 17167, 17470, 17728, 17902, 17903, 18234, 18239, 18262, 18588 to 18594, 18783.
 laevis, 18235.
Andropogon sp., 17182.
 affinis, 17183.
 australis, 18357.
 bombayensis, 17035.
 coloratus, 18165 to 18167.
 cymbarius, 18463.
 halapensis, 16908.
 intermedius, 18347.
 pertusus, 16907.
 sericeus, 17184, 18130, 18346.
 sorghum, 16854 to 16861, 17475, 17490, 17513, 17524, 17535 to 17691, 17695, 17702, 17756, 17757, 17833, 17834, 17920 to 17923, 17984, 18160 to 18198, 18203, 18309, 18326, 18343 to 18345, 18388, 18389, 18411, 18501 to 18504, 18518, 18610 to 18614, 18625, 18626, 18633, 18684, 18829, 18830, 18926 to 18940.
Anona sp., 18715, 18766, 18767.
 cherimolia, 18925.
 muricata, 18737.
 reticulata, 18736.
Anthistria ciliata, 18348.
Anthriscus sylvestris, 16952.
Anthyllus vulneraria, 17076.
Antidesma bunius, 18393.
Apple (Mexico), 18784, 18785.
 See also *Malus malus*.

- Apricot (China), 16917, 17152 to 17154, 17844, 17845, 18260, 18261, 18290.
(Mexico), 18774 to 18782.
See also *Prunus armeniaca*.
- Arachis hypogaea*, 16940, 16941, 16943, 16944, 17055 to 17057, 17530 to 17533, 17710 to 17712, 17960, 17988, 18295, 18296, 18311 to 18315, 18334 to 18337, 18523, 18524, 18675, 18676.
- Aralia cordata*, 17235.
- Aracaria brasiliana*, 18768.
- Argemone mexicana*, 18719.
- Aristolochia* sp., 17061, 17846.
- Arrhenatherum arvenaceum*, 17801.
bulbosum, 17802.
elatius, 16949, 18415, 18485.
- Artemisia annua*, 17950.
- Artichoke Globe, or Paris, 16869.
(Italy), 18831 to 18834.
Large Green, 18703.
Purple Globe, 18702.
See also *Cynara scolymus*.
- Asparagus* sp., 18662.
acutifolius, 17981, 18225, 18464, 18465.
crispus, 18668.
medeoloides, 18466, 18467.
myriocladus, 18764.
sarmentosus, 18669.
scaber, 18478.
sprengeri, 18670.
- Astragalus* sp., 18438.
falcatus, 16985, 17077.
- Astrebla elymoides*, 17037, 17185, 17186.
pectinata, 17036, 17187, 17188.
triticoides, 17189, 17190.
- Atropa belladonna*, 16815.
- Arena argentea*, 17803.
atropurpurea, 17804.
brevis, 16892.
decora, 16799.
flavescens, 16986.
orientalis, 17805.
pubescens, 16951.
satira, 16863 to 16865, 17148, 17450 to 18452, 17464, 17526, 17527, 17694, 17700, 17701, 17720, 18229, 18245, 18246.
diffusa, 16893, 16894.
- Avocado, Grant, 18731.
Johnstone, 18729.
Largo, 18730.
Mitchell, 18120.
Trapp, 16871.
See also *Persea gratissima*.
- Bahama Islands, seeds and plants from, 18727 to 18749.
- Barley, Beardless, 17525.
(China), 18454, 18458.
Hanna, 17147, 18666.
Hannchen, 18540.
Hull-less, 18458.
Primus, 18541.
Prinsess, 18542.
Tennessee Winter, 16862, 17100.
- Barley, (Turkestan), 18922.
See also *Hordeum* spp.
- Basella alba*, 18740.
- Bauhinia krugii*, 17955.
tomentosa, 18685.
- Bean, Adzuki. See *Phaseolus angularis*.
Broad, 17164, 17853, 18241, 18340, 18434.
Haricot (China), 17858, 17859.
Horse, 17860, 18137, 18142, 18143.
Hyacinth. See *Dolichos lab-lab*.
Knife. See *Canavalia ensiformis*.
Mung. See *Phaseolus max* and *P. radiatus*.
Newman, 17096.
Soy. See Soy bean.
See also *Phaseolus* spp.
- Beet, Sugar, 17509, 17968 to 17980, 18119, 18233, 18332.
See also *Beta vulgaris*.
- Benincasa cerifera*, 17967.
- Beta vulgaris*, 17509, 17968 to 17980, 18119, 18233, 18332.
- Blackberry, Himalaya, 17473.
"Bonavis" (Bahamas), 18746, 18747.
- Borecole, improved branching, 17078.
- Bouteloua curtipendula*, 17051.
oligostachya, 17052.
- Brachypodium japonicum*, 18358, 18359.
pinnatum, 16953, 17823.
sylvaticum, 16954.
- Brassica* sp., 18441, 18442, 18452.
chinensis, 17867.
oleracea, 17078, 17079, 17864 to 17869, 17895, 17953.
pe-tsai, 17864, 17865, 17866, 17868, 17869, 17953, 18606.
rapa, 18401.
- Brazil, seeds from, 18704, 18766 to 18770, 18801.
- Bromus* sp., 16822.
brachystachys, 16896.
erectus, 18416.
inermis, 16823 to 16825, 16955, 18491.
mollis, 17064.
pennonicus, 16798.
pratensis, 16826, 16987.
racemosus, 17065.
rubens, 16821.
sterilis, 16897.
sylvaticus, 17066.
unioloides, 16827, 18360.
vernalis, 16797.
- Buchu. See *Diosma crenata*.
- Buckwheat. See *Fagopyrum esculentum*.
- Bur clover. See *Medicago denticulata*.
- Cabbage (China), 17864 to 17869, 17895, 17953, 18606.
See also *Brassica* spp.
- Calathea* sp., 16934.
crotalifera, 16933.
oppenheimiana, 16396.
orquata sanderiana, 16935.
princeps, 16932.
vittata, 16937.

- Calla. See *Richardia* spp.
 Camphor. See *Cinnamomum camphora*.
Canavalia sp., 17957.
 ensiformis, 18321, 18329.
Canna sp., 18424.
 flaccida, 17961.
 indica, 18300.
 iridiflora, 18301.
Cannabis sativa, 17528, 18451, 18632.
Capsicum fastigiatum, 16817, 16818.
Carex stenophylla, 17466.
Carica papaya, 18400, 18773, 18828.
Carissa arduina, 18539, 18671.
 Carrot (China), 17754, 17870 to 17872.
 See also *Daucus carota*.
Cassia mimosoides, 18361.
Castanea sativa, 17876, 17877, 17896, 18341.
 Castor oil plant. See *Ricinus communis*.
Casuarina glauca, 18686.
 stricta, 18687.
Catalpa bungei, 16914, 17740, 18267.
 Caterpillars. See *Scorpiarus* spp.
Catesbaea spinosa, 18741.
 Catnip. See *Nepeta cataria*.
Celastrus flagellaris, 17918.
 paniculatus, 17873, 17874.
 "Celery," Silver King Hardy, 18469.
Celtis sp., 17168, 17857.
Cenchrus australis, 17028.
Cephalaria tatarica, 16900.
Cereus, sp., 18500.
Cerapegia fusca, 16868.
Chaetochloa aurea, 17047, 17233.
 glauca, 16904, 18375.
 italica, 17899 to 17901, 18152
 to 18155, 18505, 18621,
 18622.
 pachystachya, 18376.
 viridis, 18377.
 gigantica, 18378.
Chamaecyparis lawsoniana, 17990.
 Chayote. See *Sechium edule*.
Chenopodium quinoa, 18236, 18237, 18536,
 18537, 18689 to 18691.
 Cherry (China), 16918, 17732, 17733,
 18587.
 Chestnut (China), 17876, 17877, 17896.
 See also *Castanea sativa*.
 Chillies, Japanese. See *Capsicum fastigi-*
 atum.
Chimonanthus fragrans, 18573.
 China jute. See *Abutilon arifennae*.
Chloris acicularis, 17191.
 divaricata, 18349.
 truncata, 17039, 17193, 17194,
 18350.
 ventricosa, 17040, 17192.
 virgata, 17248.
Chrysophyllum sp., 18704.
 cainito, 17093.
Chrysopogon gryllus, 17041, 17195.
 parviflora, 18351.
Cinnamomum camphora, 17105.
 Citrange, Morton, 16872.
Citrullus vulgaris, 18308.
Citrus aurantium, 17151, 17505 to 17507.
 australasica, 18550.
 decumana, 18440, 18727, 18728.
 medica, 18439.
 torosa, 18468.
 trifoliata \times *aurantium*, 16872.
Clematis sp., 17959.
 Clover, Limoru, 18461.
 Ladino, 18692.
 See also *Trifolium* spp.
Cobaea scandens, 18716.
Coffea arabica, 17713, 17714.
Cole lacryma-jobi, 18362.
Colocasia sp., 17985, 17987, 18320.
 antiquorum, 17237 to 17244.
 esculenta, 17102.
 neo-guineensis, 16938.
Corchorus sp., 18453.
 capsularis, 18435.
 Corn (Bahamas), 18742 to 18744.
 (China), 17880, 17881.
 Crosby sweet, 17516 to 17518.
 Dent (Mexico), 18531 to 18534.
 Flint, 18426.
 Giant Gourd, 17692.
 Golden Malakhov, 18200, 18201.
 (Hungary), 18679, 18680.
 (Peru), 18302.
 Yellow Flint, 17523.
 See also *Zea mays*.
Coronilla scorpioides, 17068.
 cuvia, 16956.
Corylus sp., 17169, 17890.
 Costa Rica, seed from, 18708 to 18725.
 Cotton. See *Gossypium* spp.
 Cowpea, Abyssinian, 17492, 17493.
 (Arkansas Experiment Station),
 17409, 17421, 17429.
 Barbati, 17380, 17382.
 Bhadela, 17378, 17379.
 black and white mottled, 17327.
 \times Blackeye, 17410.
 Blackeye, 18472.
 (White Giant), 17366.
 Blackeyed Lady, 17420.
 Brown Coffee, 17404.
 eye, 17341.
 Crowder, 17348,
 17370, 17398.
 Calico, 17413.
 California Blackeye, 17338.
 Chauli, 17376.
 (China), 17849, 17855, 17856,
 18617.
 Chinese Browneye, 17329.
 Red, 17328.
 Whippoorwill, 17330.
 Choli, 17377, 17381.
 Clay, 17340, 17351, 17358, 17383,
 17391, 17395, 18519.
 Coffee, 17414.
 Conch, 17415.
 Cream, 17693.
 Delicious Large Lady, 17373.
 Down's Early Ripener, 17331.

- Cowpea, Early Black, 17336, 17337, 17343.
 Extra Early Blackeye, 17335.
 × Black, 17417, 17424.
 (Greece), 17333.
 Greyeye, 17390.
 Holstein, 17418.
 (hybrid), 17384, 17385, 17389, 17400.
 Iron, 17367, 17396, 17397, 17430, 17431, 17433 to 17436, 17697.
 Mountain, 17423.
 Jhunga, 17375.
 Lady, 17359.
 Finger, 17388.
 Large Blackeye, 17346, 17355, 17362.
 Little Iron, 17419.
 Michigan Favorite, 17402, 17406, 17432.
 (Morioka, Japan), 17332.
 Mount Olive, 17426.
 New Era, 17403, 17411, 18522.
 Old Man, 17354.
 Pinkish-Tan, 17405.
 Powell's Early Prolific, 17392.
 Red Carolina, 17519.
 Crowder, 17393, 17428.
 Mauve, 17369.
 Ripper, 17350, 17361, 18520.
 Whippoorwill, 17374, 17416.
 Yellow-Hull, 17365.
 Rice, Long Lady, 17401.
 Sixty-Day, 17386, 17387.
 Small Whippoorwill Crowder, 17371.
 Southdown Mottled, 17339.
 Speckled Java, 17412.
 Sport, 17427.
 Steckler's Improved, 17405, 17407.
 Taylor, 17342, 17364, 17368.
 (unclassified), 16812, 17334, 17347, 17357, 17360.
 Unknown, 17344, 17353, 17356, 18473.
 Warren's Extra Early, 17352.
 Warren's Extra Early × Sugar Crowder, 17422.
 New Hybrid, 17345.
 Watson's Hybrid, 17425.
 Whippoorwill, 17349, 18521.
 × Lady, 17408.
 Saddleback, 17409.
 White Crowder × Whippoorwill, 17363.
 Whittle, 17399.
 Wight Black Crowder, 17372.
 Yellow Sugar Crowder, 17394.
 See also *Vigna unguiculata*.
Crambe maritima, 18701.
Crataegus sp., 17170, 17472, 17751.
pinnatifida, 17171, 17739, 17882, 17883.
Crotalaria juncea, 18330.
 Cucumber (Persia), 18307.
 See also *Cucumis sativus*.
Cucumis melo, 17478, 17480 to 17482, 17522, 18232, 18303 to 18306, 18462, 18507.
 sativus, 18307.
Cucurbita maxima, 18398, 18405, 18406.
 melanosperma, 18328, 18395.
 pepo, 18121, 18397.
 Custard-apple. See *Annona reticulata*.
Cyamopsis tetragonoloba, 18641 to 18651.
Cydonia japonica, 17954, 18601.
Cynara scolymus, 16869, 18702, 18703, 18831 to 18834.
Cyperus esculentus, 18390.
Cytisus proliferus albus, 16957.
 scoparius, 17080.
Dactylis altaica, 17806.
 glaucescens, 17807.
 glomerata, 16850, 16958, 16988, 18492.
 hispanica, 17808.
Danthonia carphoides, 17197, 17198.
 nervosa, 17199, 17200.
 penicillata, 17201 to 17202, 17204 to 17207, 17209, 17210.
 villosa, 17208.
 semiannularis, 17203, 17211, 17494.
Daphne sp., 18572.
 Date, Manakher, 17993.
 Tafilalt, 18630.
 Timjoohert, 18693 to 18698.
 See also *Phoenix dactylifera*.
Daucus carota, 17754, 17870 to 17872.
Desmodium gardneri, 18363.
Dejenia forsteri, 17196.
Dianthus squarrosus, 17832.
Digitalis purpurea, 16813.
Dioscorea aculeata, 18316, 18659 to 18661.
 alata, 18657, 18658.
 bulbifera, 18656.
 pentaphylla, 18655.
 trifida, 16866, 18317, 18318, 18652 to 18654.
Diosma crenata, 18672.
Diospyros sp., 16870, 18598, 18599.
 kaki, 16910, 16912, 16913, 16921, 17172, 17704 to 17707, 18596, 18597.
 lotus, 17173, 17905 to 17907, 18266.
 virginiana, 17145.
Diplachne dubia, 17234.
 fusca, 17212, 17213, 18125.
 peacockii, 17214, 18126.
Dolichos atropurpureus, 17534.
 lablab, 17884, 17885, 18448, 18746, 18747.
 lubia, 18726.
Echinacea helianthi, 18423.
 Eggplant. See *Solanum melongena*.
 Einkorn. See *Triticum monococcum*.

- Elaeagnus* sp., 17479, 17886, 18568.
hyb., 18199.
- Eleusine aegyptiaca*, 16906, 17215, 18124.
coracana, 17072 to 17075, 18364,
18512 to 18517, 18557 to 18560.
- Elymus virginicus submuticus*, 17131.
- Emmer. See *Triticum dicoccum*.
- Eragrostis* sp., 17216.
abyssinica, 17094, 17095.
brownei, 17217, 18352.
ferruginea, 18365.
leptostachya, 17218.
pilosa, 17219, 18123.
- Eriochloa polystachya*, 17220.
punctata, 18353.
villosa, 18366.
- Erodium absinthoides*, 17758.
cheilanthesifolium, 17759.
chelidoniifolium, 17760.
cygnorum, 17245.
gruinum, 16890, 17760a.
hymenodes, 17761.
malachoides, 16891.
manescari, 17762.
pelargonifolium, 17763.
semenorii, 17764.
trichomanifolium, 17765.
verbenacifolium, 17766.
- Errum lens*, 17165.
- Euchlaena mexicana*, 16905.
- Eugenia puniceifolia*, 17956.
- Euonymus* sp., 18278, 18286, 18567.
japonicus, 18566.
- Eutrema wasabi*, 18333.
- Fagopyrum esculentum*, 17863.
- Fatsia horrida*, 17965.
- Fennugreek. See *Trigonella foenum-graecum*.
- Festuca arundinacea*, 16989.
carpathica, 16801.
dumetorum, 16959, 17081.
duriuscula, 16990.
elatior, 16802, 16960, 16991, 17838,
18417.
halleri, 18483.
heterophylla, 16961, 16992, 17082.
ovina, 16962, 16993, 17083.
pratensis, 16848, 16963, 16994,
17059, 18487.
pumila, 18490.
rubra, 16964, 16995, 17084.
tenuifolia, 16965, 16996, 17085.
violacea, 18481.
- Ficus benjamina*, 18734.
carica, 18835 to 18912.
sycomorus, 18408.
- Fig, Chiswick collection, 18835 to 18898.
- Foxglove, purple. See *Digitalis purpurea*.
- Fraxinus* sp., 16922.
longicuspis, 17748.
ornus, 18399.
- Galega biloba*, 17767.
persica, 17768.
- Garcinia mangostana*, 17146, 17514, 18479.
morella, 17141, 17995.
xanthochymus, 18765.
- Gavilana, 18714.
- Gleditsia* sp., 17888, 17889, 18579.
- Glyceria nemoralis*, 16804.
- Glycine hispida*, 17251 to 17280, 17520,
17852, 17857, 17861, 17862, 18227, 18258,
18259, 18459, 18460, 18619, 18707.
- Gossypium* sp., 18623, 18721.
- Grape, (Afghanistan), 18407.
(China), 16927, 17155 to 17161
17467, 17468, 17755, 18602.
Kapadjulari, 17718, 17719.
Mustang. See *Vitis munsoniana*.
Valandova, 18392.
See also *Vitis* spp.
- Grass, bluestem. See *Andropogon* spp.
blue grama. See *Bouteloua oligos-
tachya*.
brome. See *Bromus* spp.
Canadian blue. See *Poa compressa*.
canary. See *Phalaris canariensis*.
cane. See *Diplachne dubia*.
cotton. See *Panicum leucophaeum*.
creeping bent. See *Agrostis stolon-
ifera*.
soft. See *Holcus mollis*.
downy oat. See *Avena pubescens*.
early spring. See *Eriochloa poly-
stachya*.
English rye. See *Lolium perenne*.
esparto. See *Stipa tenuicissima*.
Italian rye. See *Lolium italicum*.
Kentucky bluegrass. See *Poa pra-
tensis*.
meadow foxtail. See *Alopecurus
pratensis*.
soft. See *Holcus lanatus*.
Mitchell. See *Astrebula pectinata*.
Mulga. See *Neurachme mitchel-
liana*.
New Zealand meadow rice. See
Microlaena stipoides.
orchard. See *Dactylis glomerata*.
pappus. See *Pappophorum com-
mune*.
para. See *Panicum molle*.
perennial rye. See *Lolium perenne*.
reed canary. See *Phalaris arundi-
nacea*.
rescue. See *Bromus unioloides*.
Rhodes. See *Chloris virgata*.
rough-stalked meadow. See *Poa
trivialis*.
slender wheat. See *Agropyron
tenuum*.
smooth brome. See *Bromus iner-
mis*.
star, umbrella, or windmill. See
Chloris spp.
sugar. See *Pollinia fulva*.
tall grama. See *Bouteloua curti-
pendula*.
meadow oat. See *Arrhenathe-
rum elatius*.
Vandyke. See *Panicum flavidum*.
velvet. See *Holcus lunatus*.
wallaby. See *Danthonia semiannu-
laris*.

Grass, weeping love. See *Eragrostis pilosa*.

Ground cherry (Turkestan), 17477.

Guar. See *Cyamopsis tetragonoloba*.

Guava (São Paulo), 18769, 18770.

See also *Psidium guajava*.

Gymnocladus chinensis, 18432, 18433.

Harpephyllum caffrum, 18474.

Haw, hawthorn, or thorn. See *Crataegus* spp.

Hedysarum coronarium, 16852.

obscurum, 18496.

sibiricum, 18339.

Helianthus annuus, 17925.

Hemp (Manchuria), 17528, 18632.

See also *Cannabis sativa*.

Hibiscus nanihol, 18580.

rosa-sinensis, 18732.

syriacus, 18574, 18575.

Hierochloe borcalis, 17809.

Holcus argenteus, 17810.

lanatus, 18367.

mollis, 16966.

Hop, Bohemian, 18471.

Semsh., 18299.

See also *Humulus lupulus*.

Hordeum aegiceras, 16898.

distichum erectum, 18541.

mutans, 17147, 18540,

18542, 18666.

culgare, 16862, 17100, 17525,

18454, 18458, 18922.

zeocriton, 16899.

Horse-radish, Japanese. See *Eutrema wasabi*.

Hosackia purshiana, 18226.

Humulus sp., 17891.

lupulus, 18299, 18471.

Indian tobacco. See *Lobelia inflata*.

Indigofera tinctoria, 18368.

Ipomoea sp., 17835, 17836.

batatas, 18297, 18298, 18402,

18631.

Ischaemum pectinatum, 18354.

Japan clover. See *Lespedeza striata*.

Jasminum nudiflorum, 18270.

Juglans hyb., 17929.

regia, 17745 to 17747, 17943 to

17946, 18256, 18257, 18263,

18603, 18604.

Jujube. See *Zizyphus sativa*.

Juncus sp., 18429, 18430.

Juniperus chinensis, 17893, 18577.

“Kaba,” 18431.

Kafir corn, 17475, 17566 to 17569, 17571,

17572, 18344, 18829.

Kale, thousand-headed, 17079.

Kickxia elastica, 17498.

Koeleria paniculata, 17894, 18277.

Lathyrus arvensis, 18147.

arnutageanus, 17769.

articulatus, 18149.

clymenum, 18146.

Lathyrus cruckshankii, 17770.

gorgoni, 17771.

heterophyllus, 17497, 18158.

hirsutus, 16998.

latifolius, 17772.

nissolia, 17773.

ochrus, 16882, 18148.

odoratus, 17774.

pyrenaicus, 17775.

rotundifolius, 17776.

sativus, 17484, 18941.

sibthorpii, 17777.

tingitanus, 18145.

uniflorus, 18144.

Lemon (China), 18439.

Lens nigricans, 18150.

Lentil. See *Erum lens*.

Lespedeza buergeri, 18369.

striata, 18370.

Leristicum officinale, 18469.

Ligusticum mutellina, 18489.

Lilium harrisii, 18538.

philippinense, 17138, 18324.

Lobelia inflata, 16814.

Lolium italicum, 16845 to 16847, 18000.

perenne, 16837 to 16844.

Lotus corniculatus japonicus, 18371.

villosus, 17086.

Lucerne, sand. See *Medicago media*.

See also *Medicago sativa*.

Luzula albidula, 16997.

Lycium sp., 18271, 18581.

Lysichiton camtschatcense, 17966.

Macadamia ternifolia, 18382.

Malus spp., 17741, 17887.

malus, 17069, 18600, 18784, 18785.

Mangifera indica, 18924.

Maranta kegeljoni, 16931.

leuconura kechorianana, 16939.

Marula, 18771.

Matundulaku, 18772.

Medicago sp., 18608.

apiculata, 16873.

decandollii, 17778.

echinus, 16874.

elegans, 17779.

interlecta, 17780.

media, 17087, 18470, 18802.

mutrae, 16875.

orbicularis, 16876, 17781.

sativa, 17163, 17281, 17449, 17476,

17698, 17992, 18391, 18418,

18425, 18627 to 18629, 18664,

18677, 18678, 18751, 18827.

scutellata, 16877, 17782.

terrebellum, 16878.

tribuloides, 16879.

tuberculata, 17783.

Melica ciliata, 16967.

coccinea, 16968.

Melilotus alba, 16969, 17491, 18699.

altissima, 17000.

coccinea, 17067.

leucantha, 17784.

officinalis 17001.

- Melilotus parviflora*, 17002.
segetalis, 17003.
sulcata 17004.
- Melon, Ecuador. See *Cucurbita melanosperma*.
- Meyer, F. N., seeds and plants secured by, 16909 to 16927, 17152 to 17162, 17167 to 17181, 17466 to 17470, 17723 to 17755, 17842 to 17954, 17959, 18256 to 18293, 18429 to 18458, 18561 to 18626, 18662, 18706.
- Microlaena stipoides*, 17495.
- Millet, Australian. See *Panicum decompositum*.
 broom-corn. See *Panicum miliaceum*.
 Italian. See *Chaetochloa italica*.
 Pearl. See *Pennisetum spicatum*.
 See also *Chaetochloa* spp. and *Panicum* spp.
- Milo. See Sorghum.
- Miscanthus condensatus*, 17962.
sinensis, 18372.
- Morus alba*, 16920, 16923, 18275, 18561 to 18563.
- Mucuna* sp., 18717.
- Musa sapientum*, 18525 to 18529.
- Muskmelon. (Colombia), 18462.
 (India), 18507.
 (Persia), 18303 to 18306.
 Winter, 17478, 17480 to 17482, 17522, 18232.
 See also *Cucumis melo*.
- Mussaenda frondosa*, 17708.
- Nelumbo nucifera alba*, 18446.
rosea, 18447.
- Nepeta cataria*, 16816.
- Nephetium lappaceum*, 17515.
- Neurachne mitchelliana*, 17221.
- Nicotiana* sp., 17927.
alata persica, 17501.
rustica brasilia, 17503, 17504.
texana, 17502.
sanderac, 17246, 17247, 17982, 17983.
tabacum, 17465, 17928, 18682.
fruticosa, 17499, 17500.
tomentosa, 17989.
- Nopal. See *Opuntia* sp.
- Nopalea* sp., 18944.
- Oak, Truffle. See *Quercus ilex* and *Q. pubescens*.
 See also *Quercus* spp.
- Oat, Apple Rustproof, 17450, 17452, 17464, 17700, 18229.
 Burt, 16865, 17451, 17701, 18230.
 Kherson, 17148.
 Sixty-Day, 16863, 17527, 17694, 17720.
 Snoma, 16864.
 (Sweden), 18245, 18246.
 Swedish Select, 17526.
 See also *Avena sativa*.
- Oca. See *Oxalis tuberosa*.
- Onobrychis caput-galli*, 16881, 17785.
crista-galli, 16880, 17786.
onobrychis, 18639, 18640.
- Opuntia* sp., 18673, 18942, 18943, 18945 to 19057.
- Orange (Algiers), 17507.
 (China), 17151, 17505, 17506.
 See also *Citrus aurantium*.
- Oreodoxa regia*, 17060.
- Ornithopus sativus*, 17709, 17839.
- Oryza sativa*, 16807, 16980 to 16984, 17135 to 17137, 17144, 17914 to 17917, 18615, 18616, 18824 to 18826, 18915 to 18921.
- Oxalis ortgiesi*, 16853.
tuberosa, 18799, 18800.
- Oxytropis campestris*, 18493, 18495.
- Pachyphizus angulatus*, 17958, 18331.
- Palm (Philippines), 17140.
- Panicularia americana*, 16833.
- Panicum* sp., 17249.
arachyrachus, 17222.
decompositum, 17042, 17223, 18129, 18355.
divaricatissimum, 18356.
floridum, 17224, 17225, 18127.
laerifolium, 17071, 18705.
leucophacum, 17226.
miliaceum, 17099, 18443, 18477, 18620.
molle, 16809.
prolatum, 17043, 17227, 17228, 18128.
trypheron, 16902.
- Papaver somniferum*, 16819, 16820, 18681.
- Papaw. See *Carica* sp.
- Pappophorum commune*, 17231, 17232.
nigricans, 17721.
- Paspalum brevifolium*, 17044.
dilatatum, 16903.
stoloniferum, 16970.
thunbergii, 18373.
- Passiflora* sp., 18428.
quadrangularis 17521.
variegata, 17143.
racemosa, 17142.
- Pea, Blackeye Marrowfat, 17486.
 blue Prussian, 17487.
 (China), 18455.
 field. See *Pisum arvense*.
 garden. See *Pisum sativum*.
 golden Vine, 17483.
 grass, 17484.
 wax-pod, 18157.
 White Marrowfat, 17485.
- Peach (Baluchistan), 18239.
 (China), 16919, 17167, 17470, 17728, 17902, 17903, 18262, 18588 to 18595.
 (Mexico), 18783.
 Quetta, 18234.
 See also *Amigdalus persica*.
- Peanut (Bolivia), 17988.
 (Brazil), 16941.
 (Ceylon), 18295, 18296, 18311 to 18315.

- Peanut (East Africa), 17530 to 17533,
17960, 18675, 18676.
(Egypt), 16940.
(for foreign exchange), 18334 to
18337.
(India), 18523, 18524.
(Japan), 16943, 17710 to 17712.
(Java), 17055 to 17057.
(Spain), 16944.
See also *Arachis hypogaea*.
- Pear (China), 16911, 16916, 16924, 17177,
17178, 17723 to 17726.
ornamental (China), 17176, 17727.
- Peltandra sagittifolia*, 18325.
- Pennisetum caudatum*, 17811.
 compressum, 17045.
 japonicum, 18374.
 latifolium, 17812.
- Perilla ocymoides*, 17904, 18445.
- Persea gratissima*, 16871, 18120, 18729 to
18731.
- Persimmon (China), 16910, 16912, 16913,
16914, 16921, 17172, 17173,
17905 to 17907, 18266,
18596 to 18599.
common. See *Diospyros vir-*
 giniana.
Japanese. See *Diospyros*
 kaki.
- Phaca frigida*, 18494.
- Phalaris arundinacea*, 16971, 17005.
 canariensis, 17104, 17488.
 coerulescens, 17813.
 trigyna, 17814.
- Pharbitis* sp., 18748.
- Phaseolus* sp., 17287, 17317, 17318, 17324.
 angularis, 17315, 17316, 17319
 to 17323, 17325, 17847, 17851,
 18618.
 calcaratus, 17310 to 17314,
 17850, 18444.
 max, 17305 to 17309, 18310.
 radiatus, 17096, 17134, 17283 to
 17286, 17288 to 17304, 17326,
 17512, 17696, 17722, 17848.
 vulgaris, 17858, 17859.
- Phleum arenarium*, 17815.
 asperum, 17816.
 boehmeri, 17817.
 intermedium, 17818.
 michelii, 17819, 18486.
 parnassicum, 17820.
 pratense, 16851, 16972, 17821,
 18548.
 tenue, 17822.
- Phoenix dactylifera*, 17993, 18630, 18693 to
18698.
- Physalis francheti*, 17477.
- Pinus* sp., 17753, 17910.
 bungeana, 17911, 17912.
 edulis, 18499.
 gerardiana, 18404.
 insularis, 18665.
 koraiensis, 18914.
- Piptatherum*, *virescens*, 16803.
- Pistache. See *Pistacia vera*.
- Pistacia cabulica*, 18635.
 chinensis, 17734, 17735, 18272,
 18273, 18605.
 integerrima, 18637.
 vera, 17250, 17474, 18636, 18683.
- Pisum* sp., 18456.
 arvense, 16884, 17483, 17485 to
 17487, 18396.
 elatus, 16883.
 jonardi, 17006.
 sativum, 16885, 18157, 18455.
- Pittosporum tobira*, 18564.
- Plantago psyllium*, 17007.
- Plum (China), 17913, 17914, 18585, 18586.
- Poa alpina*, 18482.
 caespitosa, 17229.
 chaixii, 16806.
 compressa, 16973, 18419.
 fertilis, 16974, 17088.
 hybrida, 16805.
 memoralis, 16834, 17089.
 sempervirens, 17090.
 pratensis, 16835, 16936.
 sudetica, 16975.
 trivialis, 17091, 18327, 18663.
- Pollinia fulva*, 17046, 17230.
- Pomelo (China), 18440.
See also *Citrus decumana*.
- Poppy. See *Papaver somniferum*.
- Populus* sp., 16915, 16925, 16926, 17174,
17175, 17742, 17743, 18269, 18274.
- Potato, aquatic. See *Solanum commer-*
 soni.
(Bolivia), 18248 to 18255, 18786
to 18798.
(Costa Rica), 18722 to 18725.
See also *Solanum tuberosum*.
- Poterium dodonaeum*, 18480.
 officinale, 18488.
- Prickly pear. See *Opuntia* sp.; also *Nopa-*
 lia sp.
- Prunus* sp., 16918, 17732, 17733, 17913,
18585, 18586, 18587.
 armeniaca, 16917, 17152 to 17154,
 17844, 17845, 18260, 18261,
 18290, 18774 to 18782.
 ariam, 18242.
 mahaleb, 18243.
- Psidium guajava*, 18769, 18770.
- Psophocarpus tetragonolobus*, 17717.
- Pueraria thumbergia*, 18228.
- Pumpkin, Turk's Crown, 18121.
See also *Cucurbita pepo*.
- Punica granatum*, 18240.
- Pyrus* sp., 17176, 17177, 17727.
 communis, 17070.
 sinensis, 16911, 16916, 16924, 17178,
 17723 to 17726.
- Queensland nut. See *Macadamia ternifolia*.
- Quercus* sp., 17878.
 cuspidata, 17510.
 dentata, 17842, 17879, 18265.
 ilix, 16929.
 pubescens, 16930.

- Radish (China), 17930 to 17937, 18437, 18449.
 See also *Raphanus sativus*.
 Ragi. See *Eleusine coracana*.
 Rambutan. See *Nephelium lappaceum*.
Raphanus sativus, 17930 to 17937, 18437, 18449.
Raphidophora meyerillii, 18530.
 Raspberry, red (Philippines), 16808.
 Redtop. See *Agrostis alba*.
Rehmannia angulata, 17150.
Reseda sp., 18749.
Rhamnus sp., 17908, 17909, 18582.
 Rice (Egypt), 18915 to 18921.
 Egyptian, 17144.
 (India), 16980 to 16984.
 (Japan), 17135 to 17137.
 (Persia), 18824 to 18826.
 Upland, 16807, 17914 to 17917, 18615, 18616.
 See also *Oryza sativa*.
Richardia aethiopica gigantea, 17443.
 africana nana compacta, 17441.
 alba maculata, 17445.
 aurata, 17447.
 chilidsiana, 17440.
 elliottiana, 17444.
 fragrans, 17439.
 hastata, 17446.
 praecox, 17442.
 rhemannii, 17448.
Ricinus communis, 17854, 18122, 18156, 18923.
Rosa sp., 17469, 17984.
 rugosa, 18576.
 Rose (China), 17469, 17948.
Rubus sp., 16808, 17473, 17744.
 Rush. See *Juncus* sp.
Saccharum ciliare, 17991.
 officinatum, 18322, 18323, 18409, 18410.
 Sainfoin. See *Onobrychis onobrychis*.
Salix sp., 17179, 17737, 17738.
Sapindus utilis, 18436, 18476.
Sapintum sebiferum, 18624.
Scorpiurus muricata, 16887.
 subrilliosa, 16889, 17788.
 sulcata, 16886.
 vermiculata, 16888, 17789.
Sechium edule, 17133, 17282, 17511, 17996 to 17998, 18231.
 Serradella. See *Ornithopus sativus*.
Sesamum indicum, 17919, 18607.
Sinapis alba, 18750.
Smilax sp., 18570.
Solanum comersoni, 17053, 17054, 17132.
 jamesii, 18342.
 melongena, 17062, 18543 to 18545.
 tuberosum, 18248 to 18255, 18722 to 18725, 18786 to 18798.
 Sorghum, African, 17757.
 Sumac Cane, 18411.
 (African varieties), 16854 to 16861, 18160 to 18198.
 Sorghum, Amber, 17543, 17833, 17834, 18928, 18929, 18931.
 Austrian Sugar, 17560.
 (Bagdad), 17524.
 Black, 17561.
 Black-Hulled White Kafir, 17568, 17569, 17572, 18829.
 Black-Seeded, 17541, 17542, 18932.
 (China), 17920 to 17923, 18610 to 18614, 18625, 18626.
 Colman, 17556.
 Orange Cane, 17756.
 Collier, 17557, 17558.
 (Curacao), 18501 to 18504.
 Dadgi Jowar, 18935.
 Dari, 18388, 18389.
 Djougara balki, 18926.
 Djugara, 18936.
 Dshugara balcha, 18934.
 Durra, 17689.
 Dwarf Amber, 17544.
 milo, 17513, 18684, 18830.
 Early Amber Cane, 17695, 17702.
 Edra, 18933.
 Folger's Early, 17555.
 Gare, 18939.
 Giant milo, 17691.
 Guinea corn, 18633.
 (India), 17535 to 17537, 18326.
 (Grown from Indian sorghums), 17573 to 17687.
 Jerusalem corn, 18343.
 Kaulien, 18518.
 Orange, 17547 to 17552.
 (Persia), 18309.
 Planter's Friend, 17538, 17539, 18927, 18930.
 Red, 18938.
 Kafir, 17566, 17567, 18344.
 Russian sugar, 17559.
 Sapling, 17688.
 Shallu, 17690.
 Simmon's Cane, 17490.
 Sourless, 17984.
S. saccharatum, 17540.
 Sumac, 17554.
 Cane, 18203.
 Texas Gooseneck, 17553.
 Undendibule, 17545, 17546.
 White, 18937.
 Hulled White Kafir, 17571.
 milo, 17570.
 of Rey Bareilly, 18940.
 Yellow milo, 17562 to 17565, 18345.
 See also *Andropogon sorghum*.
 Soy bean, black, 17251 to 17255, 18227, 18460.
 brown, 17256 to 17259.
 (China) 17852, 17857, 17861, 17862, 18258, 18259.
 green, 17260, 17261, 18459.

Soy bean, greenish yellow, 17262 to 17267.

Hollybrook Early, 17520.

(Siberia), 18227.

yellow, 17268 to 17280.

See also *Glycine hispida*.

"Spanish thyme" (Bahamas), 18735.

Spartium scoparium, 17008.

"Spinach" (Bahamas), 18740.

Spinacia oleracea, 17924.

Spiraea sp., 18283, 18291.

Spodiopogon cotulifer, 18379.

Sporobolus lindleyi, 17048.

Squash. See *Cucurbita maxima*.

Sterculia foetida, 17139.

Stipa elegantissima, 17049.

tenacissima, 16976.

tuckeri, 17050.

Streptosolen amabilis magnifica, 17438.

Sulla. See *Hedysarum coronarium*.

Sweet potato (Baluchistan), 18402.

(Jamaica), 18297, 18298.

See also *Ipomoea batatas*.

Syncarpia laurifolia, 16867, 18688.

Syntherisma sanguinalis, 16901.

Tallow tree. See *Sapium sebiferum*.

Tamarindus indica, 18738.

Tamarix sp., 18268.

Taro. See *Colocasia* spp.

Teff. See *Eragrostis abyssinica*.

Teosinte. See *Euchlaena mexicana*.

Thuja orientalis, 17926.

Timothy. See *Phleum pratense*.

Tobacco (China), 17927, 17928.

(Italy), 17465.

See also *Nicotiana tabacum*.

"Tree pea," 18427.

Trifolium sp., 18461.

alpinum, 18498.

caespitosum, 18497.

hybridum, 18547.

incuratum, 16977 to 16979,

17841, 17999, 18420.

medium, 18421.

pratense, 17508, 17840, 18001

to 18118, 18394, 18412, 18510,

18511, 18546, 18551 to 18556,

18913.

repens, 18692.

Trigonella corniculata, 18151.

foenum-graecum, 18506.

Trisetum pratense, 16950.

Triticum dicoccum, 17098.

durum, 17097, 17471.

turgidum, 17830.

vulgare, 17825, 17947, 17994,

18457.

Tuna. See *Opuntia* sp.

Typhonium trilobatum, 18763.

Udo. See *Aralia cordata*.

Ulex europaeus, 17092.

Ulmus sp., 16909.

Vanilla sp., 18733.

Vetch, bitter. See *Lathyrus sativus*.

kidney. See *Anthyllus vulneraria*.

Vetch, milk. See *Astragalus*.

See also *Vicia* spp.

Viburnum odoratissimum, 18583.

Vicia sp., 16928, 18456.

agrigena, 17009.

ambigua, 17010.

americana, 16811.

amoena lanata, 18380.

atropurpurea, 18132.

biennis, 17011.

calcarata, 17012, 18141, 18803.

cassubica, 17013.

cordata, 17014, 18804.

cornigera, 17015, 18805.

cuspidata, 17016, 18806.

disperma, 17017, 18807.

faba, 17164, 17853, 17860, 18137,

18142, 18143, 18241, 18340, 18434.

feruginea, 17018, 18808.

fulgens, 18202.

gerardi, 17019, 18809.

glabrescens, 17496.

globosa, 17020, 18810.

grandiflora, 17021, 17790, 18811.

hybrida, 17022, 18812.

lutea, 17023, 18136.

macrocarpa, 17024, 18813.

microcarpa, 18814.

monanthos, 18139, 18140.

multiflora, 17025.

narbonensis, 18815.

nissoliana, 18131.

onobrychioides, 17026, 18816.

orobus, 17791.

pannonica, 17027, 18135, 18817.

peregrina, 17028, 18818.

picta, 17029, 18819.

pseudo-cracca, 17030, 18820.

satira, 18338, 18674.

macrocarpa, 18138.

obovata, 18134.

spuria, 17032, 18821.

striata, 17033, 18822.

sylvatica, 17031, 17792.

tricolor, 17034, 18823.

unijuga, 18381.

varia, 18133.

villosa, 18422, 18700.

glabrescens, 18159.

Vigna unguiculata, 16812, 17327 to 17437,

17492, 17493, 17519, 17693, 17697, 17849,

17855, 17856, 18472, 18473, 18519 to

18522, 18617.

Vicia sp., 17941.

Vitis sp., 16927, 17157 to 17161, 17467,

17468, 17755, 18602.

mussoniana, 17964.

vinifera, 17155, 17156, 17718, 17719,

18392, 18407.

Voandzeia subterranea, 16942, 17058.

Walnut (China), 17745 to 17747, 17929,

17943 to 17946, 18256, 18257,

18263, 18603, 18604.

See also *Juglans* spp.

Wampee. See *Peltandra sagittifolia*.

Watermelon (Persia), 18308.

See also *Citrullus vulgaris*.

Wheat. See *Triticum* spp.

Wistaria chinensis, 17949.

Xanthoceras sorbifolia, 18264.

Xanthosoma sp., 16810, 16946 to 16948,

17149, 17453 to 17463,

17986, 18204 to 18224, 18319,

18634.

robustum, 18762.

sagittifolium, 17703.

violaceum, 18385, 18761.

Xanthoxylum sp., 17181, 17951.

hancei, 17952.

Yam. See *Dioscorea* spp.

Yang tau. See *Actinidia chinensis*.

Yautia (Ceylon), 17453 to 17461.

(Kamerun), 16946 to 16948.

Linares, 17149.

"Oto," 16810.

(Philippines), 18319.

(Porto Rico), 18204 to 18224.

White Tanier, 17987.

Yellow Tanier, 17986.

See also *Xanthosoma* spp.

Zea mays, 17516 to 17518, 17523, 17692,

17880, 17881, 18200, 18201, 18302, 18426,

18531 to 18534, 18679, 18680, 18742 to

18745.

Zizyphus sativa, 17752, 17892, 18565.

[Continued from page 2 of cover.]

- No. 52. Wither-Tip and Other Diseases of Citrus Trees and Fruits Caused by *Colletotrichum Gloeosporioides*. 1904. Price, 15 cents.
53. The Date Palm. 1904. Price, 20 cents.
54. Persian Gulf Dates. 1903. Price, 10 cents.
55. The Dry Rot of Potatoes. 1904. Price, 10 cents.
56. Nomenclature of the Apple. 1905. Price, 30 cents.
57. Methods Used for Controlling Sand Dunes. 1904. Price, 10 cents.
58. The Vitality and Germination of Seeds. 1904. Price, 10 cents.
59. Pasture, Meadow, and Forage Crops in Nebraska. 1904. Price, 10 cents.
60. A Soft Rot of the Calla Lily. 1904. Price, 10 cents.
61. The Avocado in Florida. 1904. Price, 5 cents.
62. Notes on Egyptian Agriculture. 1904. Price, 10 cents.
63. Investigations of Rusts. 1904. Price, 10 cents.
64. A Method of Destroying or Preventing the Growth of Algae and Certain Pathogenic Bacteria in Water Supplies. 1904. Price, 5 cents.
65. Reclamation of Cape Cod Sand Dunes. 1904. Price, 10 cents.
66. Seeds and Plants Imported. Inventory No. 10. 1905. Price, 15 cents.
67. Range Investigations in Arizona. 1904. Price, 15 cents.
68. North American Species of *Agrostis*. 1905. Price, 10 cents.
69. American Varieties of Lettuce. 1904. Price, 15 cents.
70. The Commercial Status of Durum Wheat. 1904. Price, 10 cents.
71. Soil Inoculation for Legumes. 1905. Price, 15 cents.
72. Miscellaneous Papers. 1905. Price, 5 cents.
73. The Development of Single-Germ Beet Seed. 1905. Price, 10 cents.
74. Prickly Pear and Other Cacti as Food for Stock. 1905. Price, 5 cents.
75. Range Management in the State of Washington. 1905. Price, 5 cents.
76. Copper as an Algicide and Disinfectant in Water Supplies. 1905. Price, 5 cents.
77. The Avocado, a Salad Fruit from the Tropics. 1905. Price, 5 cents.
78. Improving the Quality of Wheat. 1905. Price, 10 cents.
79. The Variability of Wheat Varieties in Resistance to Toxic Salts. 1905. Price, 5 cents.
80. Agricultural Explorations in Algeria. 1905. Price, 10 cents.
81. Evolution of Cellular Structures. 1905. Price, 5 cents.
82. Grass Lands of the South Alaska Coast. 1905. Price, 10 cents.
83. The Vitality of Buried Seeds. 1905. Price, 5 cents.
84. The Seeds of the Bluegrasses. 1905. Price, 5 cents.
85. The Principles of Mushroom Growing. 1905. Price, 10 cents.
86. Agriculture without Irrigation in the Sahara Desert. 1905. Price, 5 cents.
87. Disease Resistance of Potatoes. 1905. Price, 5 cents.
88. Weevil-Resisting Adaptations of the Cotton Plant. 1906. Price, 10 cents.
89. Wild Medicinal Plants of the United States. 1906. Price, 5 cents.
90. Miscellaneous Papers. 1906. Price, 5 cents.
91. Varieties of Tobacco Seed Distributed, etc. 1906. Price, 5 cents.
92. Date Varieties and Date Culture in Tunis. 1906. Price, 25 cents.
93. The Control of Apple Bitter-Rot. 1906. Price, 10 cents.
94. Farm Practice with Forage Crops in Western Oregon, etc. 1906. Price, 10 cents.
95. A New Type of Red Clover. 1906. Price, 10 cents.
96. Tobacco Breeding. 1907. Price, 15 cents.
97. Seeds and Plants Imported. Inventory No. 11. 1907. Price, 30 cents.
98. Soy Bean Varieties. 1907. Price, 15 cents.
99. A Quick Method for the Determination of Moisture in Grain. 1907. Price, 5 cents.
100. Miscellaneous Papers. 1907. Price, 25 cents.
101. Contents of and Index to Bulletins 1 to 100, Inclusive. 1907. Price, 15 cents.
102. Miscellaneous Papers. 1907. Price, 15 cents.
103. Dry Farming in the Great Basin. 1907. Price, 10 cents.
104. The Use of Feldspathic Rocks as Fertilizers. 1907. Price, 5 cents.
105. The Relation of the Composition of the Leaf to the Burning Qualities of Tobacco. 1907. Price, 10 cents.