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Plant Inventory No. 136

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D. C., November 1949



PLANT MATERIAL INTRODUCED BY THE DIVISION OF PLANT EXPLORATION AND INTRODUCTION, BUREAU OF PLANT INDUSTRY,¹ JULY 1 TO SEPTEMBER 30, 1938 (Nos. 129591 to 130579)

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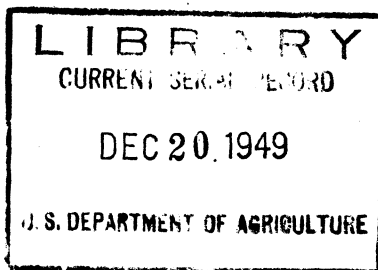
INTRODUCTORY STATEMENT

This inventory, No. 136, is a record of the plant material (Nos. 129591 to 130579) received by the Division of Plant Exploration and Introduction during the period from July 1 to September 30, 1938.

The manuscript was prepared under the supervision of Paul Russell, who has checked or identified the incoming seed materials and has verified the botanical nomenclature and descriptive notes.

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INVENTORY

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

129591 to 129595. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae. Sweetpotato.

From Puerto Rico. Tubers presented by Wallace K. Bailey, associate horticulturist, Puerto Rico Agricultural Experiment Station, Mayaguez. Received July 9, 1938.

A collection of Puerto Rican varieties of sweetpotatoes.

129591. *Brava*.

129594. *Mina*.

129592. *Cayo Hueso*.

129595. *Oquenda*.

129593. *Don Juan*.

129596. *SACCHARUM*. Poaceae. Sugarcane.

From Mauritius. Cuttings presented by the Agricultural Department, Mauritius. Received July 11, 1938.

M-171-30.

129597. *TERMINALIA OLIVERI* Brandis. Combretaceae.

From India. Seeds presented by the Forest Research Institute, Dehra Dun, United Provinces, through F. G. Walsingham, Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, Cuba. Received July 7, 1938.

An evergreen tree becoming 40 to 60 feet high, with a trunk 4 to 5 feet in girth, often channelled; ovate-elliptic leaves about 2 inches long and dense panicles of small yellowish flowers. Native to dry areas in Burma.

129598. *BAMBUSA OLIVERIANA* Gamble. Poaceae. Bamboo.

From Florida. Plant presented by the Royal Palm Nurseries, Oneco. Received July 8, 1938.

A clump bamboo which becomes about 20 feet high; origin unknown.

129599. *TRIODIA* sp. Poaceae. Grass.

From Western Australia. Seeds presented by H. A. Mullet, Director of Agriculture, Melbourne, Victoria. Received July 8, 1938.

A grass, locally known as "spinifex," collected from the Port Headland-Marble Bar district of Western Australia, where the average annual rainfall is 12 inches.

129600 and 129601.

From California. Seeds grown at the United States Acclimatization Garden, Bard. Received July 7, 1938.

129600. *GLAUCOTHEA ARMATA* (S. Wats.) O. F. Cook. Phoenicaceae.

Blue palm.

A stout fan-palm with a robust trunk up to 8 feet in diameter and 20 feet high, crowned by numerous glaucous-blue leaves, nearly circular in outline, and deeply cut into many segments. The flowers are dull purple. Native to Baja California, Mexico.

For previous introduction see 100980.

129600 and 129601—Continued

129601. *INODES EXUL* O. F. Cook. Phoenicaceae. **Victoria palmetto.**

A stout palmetto cultivated in some parts of Texas, and probably native to Mexico. It is distinguished from related species by its large size, the deep-green foliage, the thickened branchlets of the inflorescence, the solitary fruit, and the large seed, not wrinkled above nor hollowed out below. It is closely related to *Inodes texana*.

For previous introduction see 118449.

129602 to 129643.

From Australia. Plants and scions purchased from J. Brunning & Sons, Somerville nurseries, Somerville, Victoria. Received July 9, 1938.

129602 to 129607. *AMYGDALUS PERSICA* L. Amygdalaceae. **Peach.**

129602. *Early Dawn.* 129605. *McDevitt's Late Cling.*

129603. *Gaume.* 129606. *Mary's Choice.*

129604. *Hauss.* 129607. *Peak Cling.*

129608 to 129614. *AMYGDALUS PERSICA* var. *NECTARINA* Ait. Amygdalaceae. **Nectarine.**

129608. *Albert Victor.* 129612. *Goldmine Late.*

129609. *Emmerson.* 129613. *Lippiats Prolific.*

129610. *Fertile du Poitou.* 129614. *Marina.*

129611. *Gigantic.*

129615 to 129626. *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**

129615. *Celo.* 129621. *Tasman's Pride.*

129616. *Cowell.* 129622. *Trivetts.*

129617. *Crown Beauty.* 129623. *Winter Majetin.*

129618. *Duke of Clarence.* 129624. *Widdup.*

129619. *Greevston Fanny.* 129625. *Yapeen Seedling.*

129620. *Granny Smith Red.* 129626. *Stewart's Seedling (Ballaret).*

129627 to 129637. *PRUNUS* spp. Amygdalaceae.

129627 and 129628. *PRUNUS AVIUM* L. **Sweet cherry.**

129627. *Driver's Up-to-Date.*

129628. *Tangshii.*

129629. *PRUNUS DOMESTICA* L. **Common plum.**

Alpha.

129630 to 129632. *PRUNUS SALICINA* Lindl. **Japanese plum.**

129630. *Billington.*

129631. *Democrat.*

129632. *Eclipse.*

129633 and 129634. *PRUNUS DOMESTICA* L. **Common plum.**

129633. *Excelsior.*

129634. *Lawford's Gage.*

129635 and 129636. *PRUNUS SALICINA* Lindl. **Japanese plum.**

129635. *Norine.*

129636. *Paterson's Late.*

129637. *PRUNUS.*

Wright's Hybrid.

129602 to 129643—Continued

129638 to 129643. PYRUS COMMUNIS L. Malaceae. Common pear.

129638. *Baron de Mello.*

129641. *Gibbins Nellis.*

129639. *Beacon.*

129642. *Tyford Monarch.*

129640. *Broome Park.*

129643. *Winter Cole.*

129644. ARACHIS HYPOGAEA L. Fabaceae.

Peanut.

From Paraguay. Seeds presented by Teodoro Rojas, Jardin Botanico, Santissima Trinidad. Received July 16, 1938.

A strain cultivated by the natives in the upper Paraná region of Paraguay.

129645. CYNODON DACTYLON (L.) Pers. Poaceae.

Bermuda grass.

From Puerto Rico. Seeds presented by V. W. Thalmann, Soil Conservation Service, Mayaguez. Received July 18, 1938.

Locally grown dwarf Bermuda grass.

129646 to 129650. VITIS spp. Vitaceae.

Grape.

From the Union of South Africa. Cuttings presented by F. C. Hugo, Government Viticulturist, Elsenburg. Received July 20, 1938.

129646. *VITIS.*

Aramon × *Rupestris Ganzin No. 1.*

129647. *VITIS VINIFERA L.*

European grape.

Barlinka.

129648. *VITIS.*

Cabernet × *Berlandieri 333EM.*

129649 and 129650. *VITIS VINIFERA L.*

European grape.

129649. *Cape Currant.*

129650. *Jacquez.*

129651 to 129660. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.

Sweetpotato.

From Australia. Tubers presented by H. Wenzholz, Director of Plant Breeding, Department of Agriculture, Sydney, New South Wales. Received July 20, 1938.

129651. *Calabash Leaf*; originally from Rhodesia.

129652. *R 3049-2*; originally from the Virgin Islands.

129653. *Early butter*; originally from Rhodesia.

129654. *Russia 85.*

129655. *R. 2358-1*; originally from Hawaii.

129656. *Shijunichi*; originally from Japan.

129657. *Statia*; originally from the British West Indies.

129658. *Taino 10*; originally from Japan.

129659. *Taino 19*; originally from Japan.

129660. *White Maltese.*

129661. GOSSYPIMUM. Malvaceae.

Cotton.

From Honduras. Seeds presented by W. R. Meadows, Board of Trade, Chicago, Ill. Received June 29, 1938. Numbered in July 1938.

129662. CYNODON TRANSVAALENSIS Burt Davy. Poaceae. Grass.

From the Union of South Africa. Plants presented by R. E. Foster, Assistant Professional Officer, Pasture Research, Department of Agriculture, Pretoria. Received July 22, 1938.

A densely caespitose perennial grass with slender culms and green acute leaves 1 inch or more in length. It spreads rapidly, is compact, and is excellent for lawns and bowling greens, for which purpose it is now the principal grass in the Transvaal. It is known under the names Florida Kweek or Florida grass (after the town of Florida, near Johannesburg), Germiston grass, etc.

For previous introduction see 95349.

129663 to 129666. GOSSYPIUM. Malvaceae. Cotton.

From Africa. Seeds presented by C. G. Hansford, the Agricultural Laboratories, Department of Agriculture, Kampala, Uganda. Received July 9, 1938.

Cotton varieties, developed for resistance to the blackarm disease.

129663. *Bukalasa*, B. P. 52.

129665. *Serere*, S. P. 84.

129664. *Bukalasa*, B. P. 79.

129666. *Serere*, S. P. 102.

129667 to 129669. MELILOTUS spp. Fabaceae. Sweetclover.

From Germany. Seeds presented by Dr. Hans Winkler, Director, Botanic Garden, Hamburg. Received July 20, 1938.

129667. *MELILOTUS ALBA* Desf.

White sweetclover.

129668. *MELILOTUS ALTISSIMA* Thuill.

129669. *MELILOTUS OFFICINALIS* (L.) Lam.

Yellow sweetclover.

129670 to 129673. MELILOTUS spp. Fabaceae. Sweetclover.

From Italy. Seeds presented by the Director, Botanic Garden, Palermo. Received July 21, 1938.

129670 and 129671. *MELILOTUS INDICA* (L.) All.

129672. *MELILOTUS MESSANENSIS* (L.) All.

For previous introduction see 33366.

129673. *MELILOTUS SULCATA* Desf.

For previous introduction see 90038.

129674 to 129685.

From the Union of South Africa. Plants presented by H. E. V. Pickstone & Bros., Ltd., nurserymen, Simondium. Received July 27, 1938.

129674 to 129677. *AMYGDALUS PERSICA* L. Amygdalaceae.

Peach.

129674. *Angel*.

129676. *Killiebrankie*.

129675. *Constantia*.

129677. *Sea Eagle*.

129678. *AMYGDALUS PERSICA* var. *NECTARINA* Ait. Amygdalaceae. Nectarine. *Stanwick*.

129679 and 129680. *MALUS SYLVESTRIS* Mill. Malaceae.

Apple.

129679. *Ballarat Seedling*.

129680. *Chinemuri*.

129681. *PRUNUS ARMENIACA* L. Amygdalaceae.

Apricot.

Old Cape.

129682. *PRUNUS DOMESTICA* L. Amygdalaceae.

Common plum.

Reid's Late Gem.

129683. *PRUNUS AVIUM* L. Amygdalaceae.

Sweet cherry.

Giant Heidelberggen. (Received as "*Giant Heidelberggen*.")

129684. *VITIS* sp. Vitaceae.

Grape.

Barbarossa.

129685. *VITIS* sp. Vitaceae.

Grape.

Bartlinka.

129686 to 129692. LYCOPERSICON ESCULENTUM Mill. Solanaceae.**Tomato.**

From South America. Seeds obtained through H. L. Blood, Agricultural Experiment Station, Logan, Utah, in cooperation with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received in July 1938.

129686. *Currant tomato*. From Guayaquil, Ecuador, June 25, 1938. Supplied by the American consulate general.

Nos. 129687 to 129692. Presented by Swift & Co., Buenos Aires, Argentina.

129687. No. 777. Var. *Campana*. From Hudson, Argentina.

129688. No. 773. Var. *Ciro*. From the Villa Elisa, Argentina, April 22, 1938.

129689. No. 772. Var. *Las Talas*. From Las Talas, Rio Santiago, Argentina, May 22, 1938.

129690. No. 774. Var. *Palo Blanco*. From Palo Blanco, Rio Santiago, Argentina, April 22, 1938.

129691. No. 775. Var. *Sino*. From Florencio Vasela, Argentina, April 22, 1938.

129692. No. 776. Var. *Vasela*. From Florencio Vasela, Argentina, April 22, 1938.

129693 to 129695.

From Peru. Seeds presented by C. Vargas-C., Sección Botanica, Universidad de Cuzco, Cuzco. Received July 28, 1938.

129693. LYCOPERSICON ESCULENTUM Mill. Solanaceae.

Tomato.

No. 1014.

129694. RUBUS PERUVIANUS Fritsch. Rosaceae.

Blackberry.

No. 1013. A blackberry with trifoliolate leaves, the ovate-elliptic leaflets about 2½ inches long. Native to Peru.

129695. RUBUS sp. Rosaceae.

No. 418. Collected between 3,400 and 3,700 m. in Ampay, Abancay, June 9, 1938.

129696 to 129698. MELILOTUS spp. Fabaceae.**Sweetclover.**

From Sweden. Seeds presented by the Director, Botanic Garden, Uppsala. Received July 27, 1938.

129696. MELILOTUS INDICA (L.) All.

For previous introduction see 120055.

129697. MELILOTUS ALTISSIMA Thuill.

A perennial melilotus attaining a height of from 4 to 6 feet and in general growth habits similar to the more common *Melilotus alba*.

For previous introduction see 129668.

129698. MELILOTUS SULCATA Desf.

For previous introduction see 129673.

129699 to 129705. MELILOTUS spp. Fabaceae.**Sweetclover.**

From Malta. Seeds presented by the Director, Argotti Botanic Gardens, Floriana. Received July 27, 1938.

129699. MELILOTUS ELEGANS Salzm.

129700. MELILOTUS INDICA (L.) All.

129701. MELILOTUS SEGETALIS (Brot.) Seringe.

129702. MELILOTUS ITALICA (L.) Lam.

For previous introduction see 90034.

129703. MELILOTUS MESSANENSIS (L.) All.

For previous introduction see 129672.

129704 and 129705. MELILOTUS SULCATA Desf.

129706. CYRTOSTACHYS RENDA Blume. Phoenicaceae. Palm.

From Trinidad. Seeds presented by Mrs. Mora C. Fitt-André, Port-of-Spain. Received August 1, 1938.

A slender palm, 25 to 30 feet high, crowned by a graceful cluster of dark-green, semierect, pinnate leaves 6 to 8 feet long with linear or ensiform segments and brownish-red petioles. Native to Sumatra.

For previous introduction see 105822.

129707 to 129746. GOSSYPIUM spp. Malvaceae. Cotton.

From India. Seeds presented by the Institute of Plant Industry, Indore. Received August 5, 1938.

129707 to 129741. GOSSYPIUM.

129707. No. 1. 47F.

129708. No. 2. 289F.

129709. No. 3. L. S. S.

129710. No. 4. 43F.

129711. No. 5. 4F-18. Short staple 4F.

129712. No. 6. 4F-98. (Improved Sind.) (American cotton.)

129713. No. 7. Sind-Sudhar. Imp. Sind-American.

129714. No. 8. B. D. 8 (selfed). (Bombay).

129715. No. 9. Broach Local (general). (Bombay).

129716. No. 10. Parbhani 710. Unselfed.

129717. No. 11. 1027-A. L. F. (selfed).

129718. No. 12. 1-A, cylindrical boll.

129719. No. 13. 1-A, long boll (selfed).

129720. No. 14. *Bani*.

129721. No. 15. *Buri*.

129722. No. 16. *Selected Roseum*.

129723. No. 17. *Verum*.

129724. No. 18. *Wagad 8* (selfed).

129725. No. 19. *Wagad local*.

129726. No. 20. *Gadag I*.

129727. No. 21. *Jayawant*.

129728. No. 22. D. A. ordinary (Dharwar American).

129729. No. 23. *Kumpta*.

129730. No. 24. *Banilla*.

129731. No. 25. *Jarila*.

129732. No. 26. *Comilla*.

129733. No. 27. *Matheo*.

129734. No. 28. *Bourbon N. F.* Bulk.

129735. No. 29. *C. 7 S. F.* Bulk.

129736. No. 30. *Nadam S. F.* Bulk.

129737. No. 31. *Coconadas 171. S. F.* Bulk.

129738. No. 32. *Coconadas 43. S. F.* Bulk.

129739. No. 33. *Buganda S. F.* Bulk.

129740. No. 34. *Durango S. F.* Bulk.

129741. No. 35. *K. P. T. 1. S. F.* Bulk.

129707 to 129746—Continued

129742. GOSSYPIUM NEGLECTUM Todaro.

No. 36. *Ptalvi 9.*

For previous introduction see 89201.

129743 to 129746. GOSSYPIUM.

129743. No. 37. *Cawnpore 520.*

129744. No. 38. *Indore Cambodia No. 1.*

129745. No. 39. *Indore Cambodia MU.*

129746. No. 40. *Mollisoni 39.*

129747. BORASSUS AETHIOPUM Mart. **Phoenicaceae.**

Palm.

From Africa. Seeds presented by the Conservator of Forests, Accra, Gold Coast Colony. Received August 5, 1938.

A tall palm with the trunk finally thickened above the middle, fan-shaped leaves flabellately divided to about the middle, the lobes linear-lanceolate, and large fruits. Native to western tropical Africa, where the trunks of the old male palms are used for telegraph poles, wharf piles, etc., as the wood is highly resistant to insect attack and decay.

129748 to 129750. GOSSYPIUM spp. **Malvaceae.**

Cotton.

From Puerto Rico. Seeds presented by Atherton Lee, Director, Puerto Rico Agricultural Experiment Station, Mayaguez. Received August 9, 1938.

129748. GOSSYPIUM HIRSUTUM L.

Upland cotton.

129749 and 129750. GOSSYPIUM.

129749. *Haitian tree cotton E. 6-8-29.* Barker's tree cotton grown at Mayaguez.

129750. *Haitian tree cotton, 36-8-34.* Barker's tree cotton grown at Mayaguez.

129751 and 129752. SACCHARUM. **Poaceae.**

Sugarcane.

From Argentina. Cuttings presented by Dr. William E. Cross, Estación Experimental Agrícola, Tucumán. Received August 10, 1938.

129751. *Tucumán No. 472.*

129752. *Tucumán No. 1406.*

129753. PRUNUS SUBHIRTILLA Miquel. **Amygdalaceae.** **Higan cherry.**

From Maryland. Scions presented by Peter Bisset, Bethesda. Received August 8, 1939.

Yae-schidare-higan. A double-flowered weeping, pink-flowered variety.

129754 to 129767. ZEA MAYS L. **Poaceae.**

Corn.

From Peru. Seeds presented by Dr. Albert A. Glesecke, United States Embassy, Lima, at the request of Dr. H. L. Blood, Agricultural Experiment Station, Logan, Utah, cooperating with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received August 8, 1938.

From Andahuaylas, Peru.

129768. NEANTHE ELEGANS (Mart.) O. F. Cook (*Chamaedorea elegans* Mart.). **Phoenicaceae.** **Palm.**

From California. Plants presented by David Barry, Jr., Los Angeles. Received August 11, 1938.

An erect, spineless, pinnate-leaved palm, with a stout trunk up to 6 feet high and leaves up to 4 feet long. Native to the State of Vera Cruz, Mexico.

For previous introduction see 124967.

129769. ROOSEVELTIA FRANKLINIANA O. F. Cook. Phoenicaceae. Palm.

From the Cocos Islands, Costa Rica. Seeds and plants collected by Dr. Waldo L. Schmitt, United States National Museum. Received August 12, 1938.

Material collected during the 1938 cruise of President Franklin D. Roosevelt on the U. S. S. *Houston*.

A tall handsome palm with a rigid, columnar trunk, the base rather abruptly thickened, and a crown of large pinnate leaves with many long and pendent pinnae. It is very similar in size and general appearance to the coconut palm. Native to the Cocos Islands, Costa Rica.

129770. VIGNA SESQUIPEDALIS (L.) Fruwirth. Fabaceae.**Asparagus bean.**

From Cuba. Seeds presented by Thomas R. Towns, Holguin. Received August 11, 1938.

String beans which become 12 to 15 inches long, maturing in about 60 days; very prolific and bearing for many months.

129771 to 129802.

From New Zealand. Seeds presented by the Curator, Botanic Gardens, Christchurch. Received August 9, 1938.

Unless otherwise mentioned, these plants are all native to New Zealand.

129771. BELLSCHMIEDIA TAWA (A. Cunn.) T. Kirk. Lauraceae.

A tall forest tree up to 80 feet high and 4 feet in diameter, with alternate lanceolate leaves 2 to 4 inches long and slender panicles of minute flowers followed by dark-purple, ovoid fruits 1 inch long. The wood is white, straight-grained, and easily worked, being used for buckets, tubs, casks, etc. The pulp of the plumlike fruit is eaten raw, and the kernels are eaten after steaming.

For previous introduction see 77174.

129772. CARMICHAELIA UNIFLORA T. Kirk. Fabaceae.

A dwarf matted shrub with slender, often subterranean stems, 1 to 2 inches high, forming large patches, and solitary purplish flowers $\frac{1}{2}$ inch long.

For previous introduction see 128860.

129773 to 129778. CELMISIA spp. Asteraceae.**129773. CELMISIA CORIACEA (Forst. f.) Hook. f.**

A herbaceous perennial with a short stout stem crowned with lanceolate leaves 1 to 2 feet long from the bases of which arise several stout woolly scapes 3 feet high bearing heads of white flowers more than 3 inches broad.

For previous introduction see 77550.

129774. CELMISIA DISCOLOR Hook. f.

A herbaceous perennial with stems branching at the base, often forming broad, flat-topped cushions. The leaves are crowded, imbricated, leathery, and the large heads of daisylike flowers are white-rayed.

129775. CELMISIA HOLOSERICEA (Forst. f.) Hook. f.

A herbaceous perennial with lanceolate, spreading, radical leaves 6 to 12 inches long and few slender scapes bearing large heads of white-rayed flowers. Native to South Island, New Zealand.

129776. CELMISIA INCANA Hook. f.

A short stout branching herbaceous perennial with broad plaited leathery leaves and large heads of white-rayed flowers.

129777. CELMISIA MAJOR Cheeseman.

A low stout spreading herbaceous perennial with thick leathery narrow-linear leaves 4 to 15 inches long and large flower heads.

129778. CELMISIA NOVAE-ZEALANDIAE (Buch.) Cheesem.

A densely tufted perennial with woody stems 7 to 8 inches high, many leathery, linear leaves, and 2 to 3 scapes of large heads of white-rayed flowers.

129771 to 129802—Continued

120779. COPROSMA ROBUSTA Raoul. Rubiaceae.

A stout shrub 2 to 12 feet high, with pale-brown bark, shining-green leaves up to 5 inches long and 2 inches broad, and small greenish flowers in dense heads. The small red or yellow drupes are thickly set.

For previous introduction see 89230.

129780. COROKIA BUDDLEIODES A. Cunn. Cornaceae.

A small tree with long narrow leaves, shining above and downy beneath. The small yellow flowers, $\frac{1}{4}$ inch long, are in slender panicles and are followed by small orange-red fruits. The native name is *korokia-taranga*.

129781. COXELLA DIEFFENBACHII (F. Muell.) Cheesem. and Hemsl. Apiaceae.

A stout, erect, herbaceous perennial 2 to 3 feet high, with flaccid, 3- to 4-pinnate radical leaves 1 to 2 feet long, the blade oblong or ovate-oblong in outline, and loosely panicked umbels of small white flowers. Native to damp places on the Chatham Islands.

129782 to 129785. HEBE spp. Scrophulariaceae.

129782. HEBE GIBBSII (T. Kirk) Cockayne and Allan.

A shrub up to $1\frac{1}{2}$ feet high, with leathery, imbricating, ovate leaves $\frac{1}{2}$ to $\frac{3}{4}$ of an inch long and small white flowers in short dense racemes. Native to South Island, New Zealand.

129783. HEBE BAKAIENSIS (Armstrong) Cockayne.

A small rounded woody evergreen bush of compact habit, 2 to 5 feet high, with linear-oblong, flat leaves about 1 inch long and white flowers in dense oblong clusters.

For previous introduction see 89299.

129784. HEBE SALICIFOLIA (Forst. f.) Pennell.

An erect much-branched shrub 3 to 10 feet high, sometimes 15 feet, with thin, pale-green, lanceolate or oblong-lanceolate leaves 2 to 6 inches long and many small, white to pale bluish-purple flowers in slender racemes 3 to 10 inches long.

129785. HEBE TRAVERSII (Hook. f.) Cockayne and Allan.

A small compact evergreen shrub 2 to 5 feet in diameter, with spreading leathery leaves 1 inch long and racemes of small white flowers at the tips of the branches.

For previous introductions see 89313.

129786. LEUCOGENES GRANDICEPS (Hook. f.) Beauverd. Asteraceae.

A densely tufted perennial herb, 2 to 3 inches high. The densely imbricated, spreading or recurved leaves, $\frac{1}{4}$ to $\frac{1}{3}$ inch long, are obovate-spatulate, flat or concave, and clothed on both surfaces with appressed silvery tomentum. The small flowers are congested into a densely bracteate head.

For previous introduction see 101283.

129787. LIBERTIA IXIODES (Forst. f.) Spreng. Iridaceae.

A low herbaceous perennial, with a short creeping rhizome, which forms a compact clump like a beardless iris. It has rigid coriaceous linear leaves 1 foot long and large panicles of small white flowers on a stem 2 feet high.

For previous introduction see 125146.

129788. LINUM MONOGYNUM Forst. f. Linaceae.

Flax.

A smooth perennial herb 1 to 2 feet high, with scattered linear-lanceolate leaves 1 inch long and large white flowers 1 inch across, in terminal corymbs.

For previous introduction see 77565.

129771 to 129802—Continued

129789. *METROSIDEROS TOMENTOSA* A. Rich. Myrtaceae.

Irontree.

Pohutukawa. This becomes eventually a tree 70 feet tall, with leaves which vary from lanceolate to broadly oblong and from 1 to 4 inches long. The large dark-crimson flowers are in dense terminal cymes. It is one of the most beautiful flowering trees of New Zealand. Because it flowers toward the end of the year, the European settlers often call this the "Christmas tree."

For previous introduction see 8933S.

129790. *MYOSOTIS AUSTRALIS* R. Br. Boraginaceae.

A slender erect herbaceous perennial 6 to 10 inches high, with linear stem leaves, oblong or linear, rather leathery radical leaves, and many small yellow or white flowers in elongated, terminal racemes. Native to Australia and New Zealand.

129791. *MYRTUS* sp. Myrtaceae.

Introduced under the name *Myrtus bullata purpurea*, which appears to be a horticultural varietal name "purpurea" added to a name which is a homonym.

129792. *OLEARIA CHATHAMICA* T. Kirk. Asteraceae.

A stout branching evergreen shrub 3 to 6 feet high, with elliptic lanceolate to oblong-obovate leaves 1 to 3 inches long and large solitary flower heads with white or purple ray flowers.

129793. *OLEARIA ODORATA* Petrie. Asteraceae.

An erect, sweet-scented, much-branched shrub 6 to 12 feet high, with leathery, linear-spathulate or linear-obovate leaves $\frac{1}{2}$ to 1 inch long, and small purplish flower heads in fascicles of 2 to 5. Native to New Zealand between 1,000 and 5,000 feet altitude.

129794. *PITTIPOBUM COLENSOI* Hook. f. Pittosporaceae.

A tree up to 50 feet high, with lanceolate to obovate leathery leaves 2 to 4 inches long. The solitary axillary dark-purple flowers, $\frac{1}{2}$ inch long, are followed by thick woody globose capsules.

For previous introduction see 99450.

129795. *PLAGIANTHUS BETULINUS* A. Cunn. Malvaceae.

A handsome leafy tree varying from 30 to 50 feet in height, with ovate or ovate-lanceolate, lobed or coarsely toothed leaves 1 to 3 inches long. The small, very numerous white flowers are in terminal and axillary panicles 4 to 9 inches long. Found growing on alluvial flats and by the side of streams, always in moist situations. Native to New Zealand and the Chatham Islands.

For previous introduction see 38969.

129796. *PODOCARPUS FERRUGINEA* G. Benn. Taxaceae.

A large evergreen tree with gray or blackish bark which peels off in large flakes, and small narrow pointed leaves arranged in 2 rows on the branches. The bright-red fruits, the size of small plums, have the taste and odor of turpentine, but are eagerly eaten by native pigeons.

129797. *POMADERBIS RUGOSA* Cheesem. Rhamnaceae.

An erect branching shrub up to 7 feet high or more, with lanceolate leaves $\frac{1}{2}$ to $1\frac{1}{2}$ inches long and many small inconspicuous flowers in terminal and axillary cymes.

129798. *PRATIA TREADWELLII* G. W. Robinson. Campanulaceae.

A prostrate branching herbaceous perennial with stems 6 to 12 inches long, small dark-green broadly ovate leaves, and solitary white flowers which are large for the genus; these are followed by purplish red berries.

129799. *RANUNCULUS MONBOI* Hook. f. Ranunculaceae.

A herbaceous perennial with stout erect stems 4 to 12 inches high, leathery or almost fleshy, sometimes thinner, reniform or ovate leaves 1 to 4 inches across and simple or branched scapes of 1 to 3 yellow flowers about 1 inch in diameter.

129771 to 129802—Continued

129800. *SENECIO COMPACTUS* T. Kirk. Asteraceae.

A much-branched, compact shrub 2 to 3 feet high and 3 to 6 feet in diameter, with leathery obovate leaves 1 to 2 inches long and campanulate flower heads about 1 inch across with yellow ray flowers.

129801. *SOPHORA TETRAPTERA* J. Miller. Fabaceae. **Fourwing sophora.**

A large shrub or small tree up to 30 feet high, found in sandy soil at the edge of woods. The green pinnate leaves and large clusters of yellow flowers make it an attractive ornamental.

For previous introduction see 98039.

129802. *VERONICA CATARRACTAE* Forst. Scrophulariaceae. **Speedwell.**

A sparingly branched, suberect shrub with rather distant spreading ovate-lanceolate, coarsely serrate leaves 1 to 4 inches long and white or pale-rose flowers in slender racemes 3 to 9 inches long.

For previous introduction see 89350.

129803 to 129849.

From Australia. Plants purchased from C. A. Nobelius & Sons, Pty. Ltd., Emerald, Victoria. Received August 17, 1938.

129803 to 129816. *AMYGDALUS PERSICA* L. Amygdalaceae. **Peach.**

129803. *Beale.*

129804. *Black Prince.*

129805. *Finlayson's Seedling.*

129806. *Gold Dust.*

129807. *Healesville Cling.*

129808. *Kia Ora.*

129809. *Millicent.*

129810. *Noonan.*

129811. *Palora.*

129812. *Peak Cling.*

129813. *Pump's Seedling.*

129814. *Sim's Cling.*

129815. *Thiele's Cling.*

129816. *Yarra Yarra Cling.*

129817 and 129818. *AMYGDALUS PERSICA* var. *NECTARINA*. Amygdalaceae. **Nectarine.**

129817. *Fripp's Late.*

129818. *Hunt's Tawney.*

129819 to 129833. *MALUS SYLVESTRIS* Mill. Malaceae. **Apple.**

129819. *Alfriston.*

129820. *Cole.*

129821. *Coronation.*

129822. *Crofton Pearmain.*

129823. *Dougherty.*

129824. *Foster.*

129825. *Glengyle Red.*

129826. *Granny Mac.*

129827. *Lady Carrington.*

129828. *Lady Hopetown.*

129803 to 129849—Continued129829. *London Pippin*.129830. *Lord Nelson*.129831. *Munroe's Favourite*.129832. *Royal Late Cooking*.129833. *Swardlands*.

129834 to 129843. PRUNUS spp. Amygdalaceae.

129834 to 129836. PRUNUS DOMESTICA L.

Common plum.

129834. *Blue Rock*129835. *Evans' Early*.129836. *King Billy*.

129837 to 129839. PRUNUS SALICINA Lindl.

Japanese plum.

129837. *Ballena*.129838. *Federation*.129839. *Sharp's Early*.

129840 to 129843. PRUNUS AVIUM L.

Sweet cherry.

129840. *Twynford*.129841. *Black Diamond*.129842. *Burgsdorf Seedling*.129843. *Williams' Favourite*.

129844 to 129849. PYRUS COMMUNIS L. Malaceae.

Common pear.

129844. *Black Achan*.129845. *Corona*.129846. *Fernbank*.129847. *Packham's Late*.129848. *Ray's Seedling*.129849. *Stanley*.**129850. OPUNTIA sp. Cactaceae.**

From Mexico. Seeds collected by Dr. Donald Reddick, Cornell University, in collaboration with Paul Russell and Max Souviron, Bureau of Plant Industry, United States Department of Agriculture. Received November 19, 1930. Numbered in August 1938.

No. 298. From Pachuca, Hidalgo, November 7, 1930.

129851 to 129857. AGAPANTHUS spp. Liliaceae.

From Africa. Roots presented by the National Botanic Gardens, Kirstenbosch, Cape Province. Received August 24, 1938.

129851 and 129852. AGAPANTHUS AFRICANUS (L.) Hoffmannsegg.

For previous introduction see 91783.

129851. An unknown variety.

129852. Table Mountain variety.

129853. AGAPANTHUS CAMPANULATUS Leighton.

A deciduous agapanthus with 12 to 14 suberect leaves up to 18 inches long and a flower stalk about 3 feet high, with showy blue campanulate flowers. Native to Natal.

129854. AGAPANTHUS HOLLANDII Leighton.

An agapanthus with about 10 narrow deciduous leaves up to 18 inches long and an umbel of showy blue, pendulous flowers. Native to the Transvaal.

129851 to 129857—Continued**129855. AGAPANTHUS LOGISPATHUS** Leighton.

A deciduous agapanthus with ascending leaves about 1 foot long and an umbel of about 20 blue flowers with the perianth about 2 inches long. Native to the Cape of Good Hope.

129856 and 129857. AGAPANTHUS PENDULUS L. Bolus.

An agapanthus with linear, deciduous leaves about 18 inches long and numerous blue flowers over 1 inch long. Native to the Transvaal.

129856. A form with light-blue flowers.

129857. A form with dark-blue flowers.

129858 to 129870. ZEA MAYS L. Poaceae.**Corn.**

From Peru. Seeds presented by S. P. Vallejo, Estación Agrícola de Ancash, Huaras, at the request of Dr. H. L. Blood, Agricultural Experiment Station, Logan, Utah, in cooperation with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received August 25, 1938.

129858. No. 6. *Alazán*.

129865. No. 10. *Hvine*.

129859. No. 11. *Amarillo Común*.

129866. No. 1. *Huarutambo*.

129860. No. 2. *Amarillo de Casilda*.

129867. No. 9. *Mishqui Paru*.

129861. No. 12. *Amarillo*.

129868. No. 13. *Morado*.

129862. No. 7. *Blanco del Cuzco*.

129869. No. 5. *Morocho*.

129863. No. 8. *Blanco del Cuzco* × *Negro*.

129870. No. 3. *Negro*.

129864. No. 4. *Chileno*.

129871. TRITICUM AESTIVUM L. Poaceae.**Wheat.**

From China. Seeds presented by D. K. Faris, Changte, Honan Province. Received August 30, 1938.

129872. ALLIUM KARATAVIENSE Regel. Liliaceae.**Onion.**

From the Netherlands. Bulbs purchased from C. G. Van Tubergen, Haarlan. Received November 1, 1930. Numbered in August 1938.

An onion, native to Turkistan, with very ornamental broad leaves of a striking blue-green color and dense umbels of dull-pink flowers.

For previous introduction see 124936.

129873. PTYCHOCOCCUS PARADOXUS (Scheff.) Beccari. Phoenicaceae.**Palm.**

From Africa. Seeds presented by the Director, East African Agricultural Research Station, Amani, Tanganyika Territory. Received August 15, 1938.

A slender palm, native to New Guinea, with a trunk 9 to 13 feet high, covered with a dense white tomentum. The regularly pinnately divided leaves have 6 to 15 broadly lanceolate segments with obliquely truncate tips.

For previous introduction see 103171.

129874 to 129877. POA ALPINA L. Poaceae.**Bluegrass.**

From Sweden. Seeds presented by Dr. A. Muntzing, Institutionen För Ärftlighetsforskning, Svalöf. Received August 19, 1938.

129874. Apomictic (35-3) 2 U-33.

129875. Apomictic (35-1) 2 U-38.

129876. (45) Sexual. Seeds from a plant with 2 U-25 (open pollination).

129877. (111) Sexual. Seeds from a plant with 2 U-31 (open pollination 1) and isolation.

129878. SOLIDAGO sp. Asteraceae.**Goldenrod.**

From Brazil. Seeds collected by A. A. Bitancourt, Cantareira, São Paulo. Received August 22, 1938.

129879 to 129882. LYCOPERSICON ESCULENTUM Mill. Solanaceae.**Tomato.**

From Peru. Seeds presented by Dr. Alberto Giesecke, through the American Embassy, Lima, at the request of Dr. H. L. Blood, Agricultural Experiment Station, Logan, Utah, in cooperation with the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. Received August 31, 1938.

129883. GARCINIA MANGOSTANA L. Clusiaceae.**Mangosteen.**

From the Canal Zone. Seeds presented by Walter E. Lindsay, Director, Canal Zone Experiment Gardens, Summit.

129884. BORNOA CRASSISPATHA (Mart.) O. F. Cook. Phoenicaceae.**Palm.**

From Haiti. Seeds presented by E. H. A. Groth, Fond des Negres. Received September 9, 1938.

A large cocoid palm with a tall columnar trunk and an ample crown of spreading leaves closely and regularly pinnate. The inflorescences are very short and compact, bearing large numbers of rather thin-shelled edible nuts, somewhat similar to those of *Jubaea*. Native to Haiti.

129885 and 129886. NERINE spp. Amaryllidaceae.

From the Union of South Africa. Bulbs presented by the National Botanic Gardens, Kirstenbosch, Newlands, Cape Province. Received September 9, 1938.

129885. NERINE APPENDICULATA Baker.

A nerine with few linear leaves about 1 foot long and a stout scape bearing an umbel of 10 to 15 red flowers. The perianth segments, about 1 inch long, are crisped in the upper half. Native to Natal.

129886. NERINE MASONORUM L. Bolus.

A tender bulbous plant with narrow channeled leaves about 1 foot long appearing with the rose-colored flowers. There are 4 to 6 flowers in an umbel, the segments being recurved, undulate, and about $\frac{1}{2}$ inch long. Native to South Africa.

For previous introduction see 116633.

129887. CITRUS sp. Rutaceae.

From China. Plant growing at the United States Plant Introduction Garden, Glenn Dale, Md. Numbered September 12, 1938.

C. P. B. 10690. *Song Ma Yau*.

129888. SACCHARUM. Poaceae.**Sugarcane.**

From Australia. Cuttings presented by Arthur F. Bell, Assistant Director, Bureau of Sugar Experiment Stations, Department of Agriculture, Brisbane, Queensland. Received September 13, 1938.

Originally from New Guinea.

129889 to 130439.

From China. Seeds collected by T. T. Yu, with the Yunnan Expedition of the Fan Memorial Institute of Biology, Peiping. Presented through the Arnold Arboretum, Jamaica Plain, Mass. Received September 15, 1938.

129889 to 129896. ABIES spp. Pinaceae.**Fir.****129889 and 129890. ABIES CHENSIENSIS Van Tieghem.**

From Tehching, Dokerla, between 2,800 and 3,200 m. altitude. A tree about 40 m. high, native to central China. The horizontally spreading 2-ranked leaves, about 1 inch long, are shining dark-green above with 2 gray-green bands beneath. The cinnamon-brown, ovoid-oblong cones are 3 to 5 inches long.

For previous introduction see 100848.

129889. No. 7952.

129890. No. 7957.

129889 to 130439—Continued**129891. ABIES DELAVAYI Franch.**

No. 14267. From Kulu, Muli, at 3,400 m. altitude. A tall tree, often about 30 m. high, native to western China. The slightly grooved branchlets are lustrous red brown and the emarginate, linear leaves, about 1 inch long, are revolute on the margin, dark-green above and with 2 white bands beneath. The violet-black, cylindric to ovoid cones are 2 to 4 inches long.

For previous introduction see 128991.

129892. ABIES sp.

No. 8008. From the Likiang Snow Range at 2,950 m. altitude.

129893. ABIES sp.

No. 8692. From Mount Miyetzumu, near Atuntze, at 3,600 m. altitude.

129894. ABIES sp.

No. 10628. From Weihsi, north of Tungchuling, at 4,000 m. altitude.

129895. ABIES sp.

No. 13983. From Kungsinshuh, Chungtien, at 3,400 m. altitude.

129896. ABIES sp.

No. 15050. From the Likiang Snow Range at 3,000 m. altitude.

129897 to 129907. ACER spp. Aceraceae.**Maple.****129897. ACER sp.**

No. 8475. From Mount Kaakerpu, near Atuntze, at 3,000 m. altitude.

129898. ACER sp.

No. 8508. From Mount Kaakerpu, near Atuntze, at 3,400 m. altitude.

129899. ACER sp.

No. 8576. From Mount Miyetzumu, near Atuntze, at 3,250 m. altitude.

129900. ACER sp.

No. 10462. From Mount Kaakerpu, near Atuntze, at 2,800 m. altitude.

129901. ACER sp.

No. 14377. From Wachin, Muli, at 3,100 m. altitude.

129902. ACER sp.

No. 14394. From Wachin, Muli, at 3,000 m. altitude.

129903. ACER sp.

No. 14414. From Wachin, Muli, at 3,100 m. altitude.

129904. ACER sp.

No. 14788. From Longi, Muli, at 2,800 m. altitude.

129905. ACER sp.

No. 14801. From Wachin, Muli, at 3,000 m. altitude.

129906. ACER sp.

No. 15041. From the Likiang Snow Range at 3,000 m. altitude.

129907. ACER sp.

No. 15100. From the Likiang Snow Range at 3,000 m. altitude.

129908 to 129918. ACONITUM spp. Ranunculaceae.**129908. ACONITUM spp.**

No. 10547. From Mount Miyetzumu, near Atuntze, at 3,400 m. altitude.

129909. ACONITUM sp.

No. 13481. From Grouzah, Chungtien, at 3,000 m. altitude.

129889 to 130439—Continued**129910. ACONITUM sp.**

No. 13824. From Tehgoh, Chungtien, at 3,300 m. altitude.

129911. ACONITUM sp.

No. 13852. From Tehgoh, Chungtien, at 3,200 m. altitude.

129912. ACONITUM sp.

No. 13988. From Kungsinshuh, Chungtien, at 3,300 m. altitude.

129913. ACONITUM sp.

No. 14518. From Sigenii, Muli, at 3,300 m. altitude.

129914. ACONITUM sp.

No. 14613. From Tinchang, Muli, at 4,000 m. altitude.

Nos. 129915 to 129918. From the Likiang Snow Range at 2,800 m. altitude.

129915. ACONITUM sp.

No. 15389.

129916. ACONITUM sp.

No. 15524.

129917. ACONITUM sp.

No. 15546.

129918. ACONITUM sp.

No. 15555.

129919 to 129921. ADENOPHORA spp. Campanulaceae.**129919. ADENOPHORA sp.**

No. 14433. From Wachin, Muli, at 3,100 m. altitude.

129920. ADENOPHORA sp.

No. 14575. From Tinchang, Muli, at 3,800 m. altitude.

129921. ADENOPHORA sp.

No. 14690. From Wati, Muli, at 3,250 m. altitude.

129922. AJUGA sp. Menthaceae.

No. 14294. From Kulu, Muli, at 3,200 m. altitude.

129923. ALANGIUM sp. Cornaceae.

No. 14043. From Woosi, Muli, at 2,600 m. altitude.

129924. ALBIZZIA sp. Mimosaceae.

No. 14819. From Guhtzun, Muli, at 3,100 m. altitude.

129925. ARALIA sp. Araliaceae.

No. 13493. From Haba, Chungtien, at 3,000 m. altitude.

129926. ALNUS sp. Betulaceae.

No. 14979. From Haba, Chungtien, at 2,500 m. altitude.

129927. AMPHICOME sp. Bignoniaceae.

No. 10210. From Atuntze at 2,500 m. altitude.

129928. AMPHICOME ARGUTA Royle. Bignoniaceae.

No. 14855. From Guhtzun, Muli, at 2,500 m. altitude. A perennial herb with pink flowers.

For previous introduction see 111765.

129889 to 130439—Continued

129929 and 129930. *AMYGDALUS* spp. Amygdalaceae.

From Muli at 2,500 m. altitude.

129929. *AMYGDALUS* sp.

No. 7659.

129930. *AMYGDALUS* sp.

No. 7659-A.

129931 to 129933. *ANDROSACE* spp. Primulaceae.

Rockjasmine.

129931. *ANDROSACE* sp.

No. 13686. From the Chungtien Plateau at 3,100 m. altitude.

129932. *ANDROSACE* sp.

No. 13863. From Tehgoh, Chungtien, at 3,200 m. altitude.

129933. *ANDROSACE* sp.

No. 14345. From Yehtze, Muli, at 3,100 m. altitude.

129934 to 129941. *ANEMONE* spp. Ranunculaceae.

129934. *ANEMONE* sp.

No. 10577. From Mount Miyetzumu, near Atuntze, at 3,400 m. altitude.

129935. *ANEMONE* sp.

No. 10813. From Baimashan, near Atuntze, at 4,000 m. altitude.

129936. *ANEMONE* sp.

No. 10942. From Lomahua, Chungtien, at 2,750 m. altitude.

129937. *ANEMONE* sp.

No. 13747. From Shianrentung, Chungtien, at 3,600 m. altitude.

129938. *ANEMONE* sp.

No. 13856. From Tehgoh, Chungtien, at 3,300 m. altitude.

129939. *ANEMONE* sp.

No. 14759. From Deongomba, Muli, at 3,500 m. altitude.

129940. *ANEMONE* sp.

No. 15065. From the Likang Snow Range at 3,000 m. altitude.

129941. *ANEMONE* sp.

No. 15169. From the Likang Snow Range at 2,400 m. altitude.

129942. *AQUILEGIA* sp. Ranunculaceae.

Columbine.

No. 14332. From Yehtze, Muli, at 3,100 m. altitude.

129943. *ARISAEMA* sp. Araceae.

No. 14410. From Wachin, Muli, at 3,100 m. altitude.

129944. *ASTER* sp. Asteraceae.

No. 13513. From Haba, Chungtien, at 3,500 m. altitude.

129945. *ERIGERON* sp. Asteraceae.

No. 14260. From Kulu, Muli, at 3,400 m. altitude.

129946 to 129949. *ASTER* spp. Asteraceae.

Nos. 129946 to 129948. From Tinchang, Muli, between 4,000 and 4,100 m. altitude.

129946. *ASTER* sp.

No. 14631.

129947. *ASTER* sp.

No. 14639.

129889 to 130439—Continued

129948. *ASTER* sp.
No. 14657.
129949. *ASTER* sp.
No. 15151. From the Likiang Snow Range at 3,400 m. altitude.
129950. *ASTILBE* sp. Saxifragaceae.
No. 13767. From Shianrentung, Chungtien, at 3,400 m. altitude.
129951. *ASTILBE* sp. Saxifragaceae.
No. 14303. From Kulu, Muli, at 3,400 m. altitude.
- 129952 to 129957. *ASTRAGALUS* spp. Fabaceae.
129952. *ASTRAGALUS* sp.
No. 14368. From Kulu, Muli, at 3,300 m. altitude.
129953. *ASTRAGALUS* sp.
No. 14761. From Deongomba, Muli, at 3,500 m. altitude.
129954. *ASTRAGALUS* sp.
No. 14768. From Puhchang, Muli, at 3,250 m. altitude.
129955. *ASTRAGALUS* sp.
No. 14817. From Wachin, Muli, at 3,000 m. altitude.
129956. *ASTRAGALUS* sp.
No. 14886. From Lilang, Muli, at 3,600 m. altitude.
129957. *ASTRAGALUS* sp.
No. 14932. From Paitih, Chungtien, at 2,000 m. altitude.
129958. *BERBERIS* sp. Berberidaceae. **Barberry.**
No. 7999. From Hungpoh, near Atuntze, at 3,700 m. altitude.
129959. *BERBERIS* sp. Berberidaceae. **Barberry.**
No. 10943. From Lomahua, Chungtien, at 2,700 m. altitude.
129960. *BERGENIA PURPURASCENS* (Hook. f. and Thoms.) Engler. Saxifragaceae.
No. 7884. From Dokerla, near Atuntze, at 3,700 m. altitude. A beautiful herbaceous rock plant, native to the temperate regions of the Sikkim Himalayas between 3,000 and 5,000 m. altitude. The bright glossy green leaves are elegantly margined with red, and the scape and inflorescence are bright vinous-red purple.
- For previous introduction see 102326.
129961. *BERGENIA* sp. Saxifragaceae.
No. 14692. From Wati, Muli, at 3,250 m. altitude.
129962. *BETULA* sp. Betulaceae. **Birch.**
No. 7850. From Dokerla, near Atuntze, between 3,200 and 3,700 m. altitude.
129963. (Undetermined.)
No. 15511. From the Likiang Snow Range at 3,000 m. altitude.
- 129964 to 129966. *BETULA* spp. Betulaceae. **Birch.**
129964. *BETULA* sp.
No. 10561. From Mount Miyetsumu, near Atuntze, at 3,400 m. altitude.
129965. *BETULA* sp.
No. 13808. From Tehgoh, Chungtien, at 3,300 m. altitude.
129966. *BETULA* sp.
No. 14704. From Wati, Muli, at 2,900 m. altitude.

129889 to 130439—Continued

129967. *CARAGANA* sp. Fabaceae.

No. 10833. From Baimashan, near Atuntze, at 3,600 m. altitude.

129968. *CARAGANA* sp. Fabaceae.

No. 15106. From the Likiang Snow Range at 3,000 m. altitude.

129969. *CELASTRUS* sp. Celastraceae.

No. 7978. From Hungpoh, near Atuntze, at 2,600 m. altitude.

129970. *CELASTRUS* sp. Celastraceae.

No. 14848. From Guhtzun, Muli, at 2,500 m. altitude.

129971 to 129973. *CIMICIFUGA* spp. Ranunculaceae.

129971. *CIMICIFUGA* sp.

No. 10553. From Mount Miyetzumu, near Atuntze, at 3,400 m. altitude.

129972. *CIMICIFUGA* sp.

No. 14682. From Tinchang, Muli, at 3,800 m. altitude.

129973. *CIMICIFUGA* sp.

No. 15289. From the Likiang Snow Range at 3,200 m. altitude.

129974 to 129984. *CLEMATIS* spp. Ranunculaceae.

129974. *CLEMATIS* sp.

No. 10421. From Mount Kaakerpu, near Atuntze, at 2,600 m. altitude.

129975. *CLEMATIS* sp.

No. 10587. From southwest of Atuntze at 3,200 m. altitude.

129976. *CLEMATIS* sp.

No. 10914. From Goluwan, Chungtien, at 2,000 m. altitude.

129977. *CLEMATIS* sp.

No. 13726. From Shianrentung, Chungtien, at 3,300 m. altitude.

129978. *CLEMATIS* sp.

No. 13890. From the Chungtien Plateau at 3,000 m. altitude.

129979. *CLEMATIS* sp.

No. 13891. From the Chungtien Plateau at 3,000 m. altitude.

129980. *CLEMATIS* sp.

No. 13940. From Pica, Chungtien, at 3,100 m. altitude.

129981. *CLEMATIS* sp.

No. 14158. From Muli at 2,600 m. altitude.

129982. *CLEMATIS* sp.

No. 14741. From Yatsa, Muli, at 3,100 m. altitude.

129983. *CLEMATIS* sp.

No. 14776. From Hungsa, Muli, at 2,900 m. altitude.

129984. *CLEMATIS* sp.

No. 15083. From the Likiang Snow Range at 3,000 m. altitude.

129985. (Undetermined.)

No. 15632. From Hungpoh, near Atuntze, at 3,800 m. altitude.

129986. *CODONOPSIS* sp. Campanulaceae.

No. 13775. From Shianrentung, Chungtien, at 3,600 m. altitude.

129987. *CODONOPSIS* sp. Campanulaceae.

No. 14576. From Jinchang, Muli, at 3,800 m. altitude.

129889 to 130439—Continued

129988. *COLURIA* sp. Rosaceae.

No. 15242. From the Likiang Snow Range at 3,000 m. altitude.

129989. *CORIARIA* sp. Coriariaceae.

No. 13487. From Haba, Chungtien, at 2,500 m. altitude.

129990. *CORIARIA* sp. Coriariaceae.

No. 14966. From Haba, Chungtien, at 2,600 m. altitude.

129991. *CARUM* sp. Apiaceae.

No. 14525. From Sigenii, Muli, at 3,300 m. altitude.

129992 to 129998. *CORNUS* spp. Cornaceae.

129992. *CORNUS* sp.

No. 5879. From north of Muli, Muli, at 2,200 m. altitude.

129993. *CORNUS* sp.

No. 7987. From Hungpoh, near Atuntze, at 2,600 m. altitude.

129994. *CORNUS* sp.

No. 10186. From Mount Yangtsa, near Atuntze, at 3,250 m. altitude.

129995. *CORNUS* sp.

No. 10519. From Mount Kaakerpu, near Atuntze, at 3,000 m. altitude.

129996. *CORNUS* sp.

No. 10909. From Lomahua, Chungtien, at 2,400 m. altitude.

129997. *CORNUS* sp.

No. 14056. From Woosi, Muli, at 2,600 m. altitude.

129998. *CORNUS* sp.

No. 14971. From Haba, Chungtien, at 2,500 m. altitude.

129999 to 130001. *CORYLUS* spp. Betulaceae.

129999. *CORYLUS* sp.

No. 10608. From Mount Miyetzumu, near Atuntze, at 3,000 m. altitude.

130000. *CORYLUS CHINENSIS* Franch.

Chinese hazelnut.

No. 13504. From Chungtien at 2,600 m. altitude. The Chinese hazelnut is closely allied to the Turkish hazelnut, *Corylus colurna*, differing in leaf form and stem characters. It becomes a tall tree, sometimes over 100 feet high, with heart-shaped leaves about 7 inches long. The nuts are borne in clusters of 4 to 6. It is native to western China.

For previous introduction see 91231.

130001. *CORYLUS FEOX* Wall.

Hazelnut.

No. 10485. From Mount Kaakerpu, Tehching, at 3,000 m. altitude. A wild hazelnut whose small nuts closely resemble the common hazelnut in taste. The trees become 6 m. high and grow at altitudes between 3,000 and 4,000 m.

For previous introduction see 121593.

130002 to 130020. *COTONEASTER* spp. Malaceae.

130002. *COTONEASTER* sp.

No. 5021. From Aywah, near Yunning, at 2,300 m. altitude.

130003. *COTONEASTER* sp.

No. 7944. From Dokerla, near Atuntze, at 2,800 m. altitude.

130004. *COTONEASTER* sp.

No. 8673. From Mount Miyetzumu, near Atuntze, at 3,500 m. altitude.

129889 to 130439—Continued

130005. *COTONEASTER* sp.
 No. 10459. From Mount Kaakerpu, near Atuntze, at 2,600 m. altitude.
 Nos. 130006 and 130007. From Mount Kaaperpu, near Atuntze, at 3,200 m. altitude.
130006. *COTONEASTER* sp.
 No. 10497.
130007. *COTONEASTER* sp.
 No. 10498.
130008. *COTONEASTER* sp.
 No. 10917. From Lomahua, Chungtien, at 2,000 m. altitude.
130009. *COTONEASTER* sp.
 No. 12882. From Konkaling at 3,100 m. altitude.
130010. *COTONEASTER* sp.
 No. 13229. From Konkaling, Chungtuh, at 3,000 m. altitude.
130011. *COTONEASTER* sp.
 No. 13398. From Shiangcheng, Tungyung, at 3,200 m. altitude.
130012. *COTONEASTER* sp.
 No. 13687. From the Chungtien Plateau, at 3,100 m. altitude.
130013. *COTONEASTER* sp.
 No. 14144. From Muli at 2,800 m. altitude.
130014. *COTONEASTER* sp.
 No. 14196. From Tuo-li-you, Muli, at 2,200 m. altitude.
130015. *COTONEASTER* sp.
 No. 14430. From Wachin, Muli, at 3,100 m. altitude.
130016. *COTONEASTER* sp.
 No. 14822. From Guhtzun, Muli, at 3,100 m. altitude.
130017. *COTONEASTER* sp.
 No. 14994. From Huachiaupoh, Chungtien, at 2,800 m. altitude.
130018. *COTONEASTER* sp.
 No. 15080. From the Likang Snow Range at 2,700 m. altitude.
130019. *COTONEASTER* sp.
 No. 15116. From the Likang Snow Range at 3,000 m. altitude.
130020. *COTONEASTER* sp.
 No. 15628. From Hungpoh, near Atuntze, at 3,800 m. altitude.
130021. *CRATAEGUS* sp. Malaceae.
 No. 13442. From Tungwalung, Chungtien, at 3,000 m. altitude.
130022. *CRATAEGUS* sp. Malaceae.
 No. 13588. From Haba, Chungtien, at 3,100 m. altitude.
130023. *CUPRESSUS* sp. Pinaceae. Cypress.
 No. 13407. From Tungzung, Shiangcheng, at 3,000 m. altitude.
- 130024 to 130026. *DATURA STRAMONIUM* L. Solanaceae.
130024. *DATURA STRAMONIUM* L.
 No. 14209. From Gu-tu, Muli, at 2,300 m. altitude.
130025. *DATURA STRAMONIUM* L.
 No. 13509. From Haba, Chungtien, at 2,800 m. altitude.

129889 to 130439—Continued

130026. *DATURA STRAMONIUM* L.
No. 14931. From Paitih, Chungtien, at 2,000 m. altitude.
130027. *DELPHINIUM* sp. Ranunculaceae. **Larkspur.**
No. 15543. From the Likiang Snow Range at 2,800 m. altitude.
130028. *DELPHINIUM* sp. Ranunculaceae. **Larkspur.**
No. 14577. From Tinchang, Muli, at 3,800 m. altitude.
- 130029 to 130033. *DESMODIUM* spp. Fabaceae. **Tickclover.**
130029. *DESMODIUM REPANDUM* (Vahl.) DC.
No. 10579. From Mount Miyetzumu, Atuntze, at 3,400 m. altitude.
130030. *DESMODIUM* sp.
No. 10724. From Weihsi, west of Tungchuling, at 3,000 m. altitude.
130031. *DESMODIUM* sp.
No. 13447. From Tungwalung, Chungtien, at 3,000 m. altitude.
130032. *DESMODIUM* sp.
No. 15482. From the Likiang Snow Range at 3,000 m. altitude.
130033. *DESMODIUM* sp.
No. 15084. From the Likiang Snow Range at 2,700 m. altitude.
130034. *DIOSCOREA* sp. Dioscoreaceae.
No. 14132. From Mui at 2,750 m. altitude.
130035. *DIPELTA* sp. Caprifoliaceae.
No. 15004. From the Likiang Snow Range at 3,000 m. altitude.
- 130036 to 130040. *DIPSACUS* spp. Dipsacaceae. **Teasel.**
130036. *DIPSACUS* sp.
No. 10872. From Baimashan, Atuntze, at 3,900 m. altitude.
130037. *DIPSACUS CHINENSIS* Batal.
No. 13425. From Tungwalung, Chungtien, at 3,200 m. altitude. A teasel up to 6 feet high, with pinnatisect leaves composed of narrow oblong pairs of leaflets and globose flower heads about 2 inches across. Native to Szechwan Province, China.
130038. *DIPSACUS ASPER* DC.
No. 14420. From Wachni, Muli, at 3,100 m. altitude. An alpine teasel up to 6 feet high, with the lower leaves pinnatifid. The small white flowers are in subglobose heads. Native to the Khasi Hills at altitudes of 1,500 to 2,000 m.
130039. *DIPSACUS ASPER* DC.
No. 14963. From Haba, Chungtien, at 2,500 m. altitude.
See No. 14420 (P. I. 130038) for description.
130040. *DIPSACUS CHINENSIS* Batal.
No. 14517. From Sigenii, Muli, at 3,300 m. altitude.
For previous introduction and description see 130037.
130041. *DOCYNIA* sp. Malaceae.
No. 14870. From Muli at 2,500 m. altitude.
130042. *EHRETIA* sp. Boraginaceae.
No. 7658. From Muli at 2,520 m. altitude.
130043. *EHRETIA* sp. Boraginaceae.
No. 13510. From Haba, Chungtien, at 2,850 m. altitude.

129889 to 130439—Continued

130044. *ELAEAGNUS* sp. Elaeagnaceae.
No. 7450. From Lilang, Muli, at 2,800 m. altitude.
130045. *ELSHOLTZIA* sp. Menthaceae.
No. 7820. From Dokerla, Atuntze, at 2,700 m. altitude.
13046. *ENKIANTHUS* sp. Ericaceae.
No. 7856. From Dokerla, Atuntze, at 3,100 m. altitude.
130047. *ENKIANTHUS* sp. Ericaceae.
No. 10939. From Lomahua, Chungtien, at 2,700 m. altitude.
- 130048 and 130049. *EPILOBIUM* spp. Onagraceae.
From Kulu, Muli, at 3,200 m. altitude.
130048. *EPILOBIUM* sp.
No. 14353.
130049. *EPILOBIUM* sp.
No. 14357.
- 130050 to 130054. *EUONYMUS* spp. Celastraceae.
130050. *EUONYMUS* sp.
No. 5320. From Shytzeshan, Yunning, at 2,600 m. altitude.
130051. *EUONYMUS* sp.
No. 13552. From Haba, Chungtien, at 3,400 m. altitude.
130052. *EUONYMUS* sp.
No. 14150. From Muli at 3,000 m. altitude.
130053. *EUONYMUS* sp.
No. 14269. From Kulu, Muli, at 3,300 m. altitude.
130054. *EUONYMUS* sp.
No. 14540. From Sigenii, Muli, at 3,300 m. altitude.
130055. *FRAGARIA* sp. Rosaceae.
No. 14280. From Kulu, Muli, at 3,300 m. altitude.
130056. *FRAXINUS* sp. Oleaceae. Ash.
- No. 10373. From Mount Kaakerpu, Atuntze, at 2,800 m. altitude.
130057. *FRAXINUS* sp. Oleaceae. Ash.
- No. 10711. From Weihsi, west of Tungchuling, at 3,000 m. altitude.
- 130058 to 130066. *GENTIANA* spp. Gentianaceae. Gentian.
130058. *GENTIANA* sp.
No. 7918. From Dokerla, Atuntze, at 3,400 m. altitude.
120059. *GENTIANA* sp.
No. 10537. From Mount Miyetzumu, Atuntze, at 3,200 m. altitude.
130060. *GENTIANA* sp.
No. 10660. From Weihsi, north of Tungchuling, at 4,000 m. altitude.
130061. *GENTIANA* sp.
No. 10719. From Weihsi, west of Tungchuling, at 3,000 m. altitude.
130062. *GENTIANA* sp.
No. 10766. From Baimashan, Atuntze, at 4,100 m. altitude.
130063. *GENTIANA* sp.
No. 10963. From Lichiasica, Chungtien, at 3,300 m. altitude.

129889 to 130439—Continued

130064. *GENTIANA* sp.
No. 14000. From Kungsinshuh, Chungtien, at 3,450 m. altitude.
130065. *GENTIANA* sp.
No. 14551. From Tinchang, Muli, at 3,800 m. altitude.
130066. *GENTIANA* sp.
No. 14760. From Deongomba, Muli, at 3,500 m. altitude.
130067. *GEUM ALEPPICUM* Jacq. Rosaceae.
No. 10308. From Mount Kaakerpu, Atuntze, at 2,600 m. altitude. An erect perennial herb with branching stems up to 5 feet high and yellow flowers about $\frac{3}{4}$ inch across. Native to central and eastern Europe.
130068. *GEUM* sp. Rosaceae.
No. 13836. From Tehgoh, Chungtien, at 3,150 m. altitude.
130069. *GLYCYRRHIZA* sp. Fabaceae.
No. 14442. From Wachin, Muli, at 3,100 m. altitude.
130070. *GUELLENSTAEDTIA* sp. Fabaceae.
No. 14578. From Tinchang, Muli, at 3,800 m. altitude.
- 130071 to 130074. *HALENIA* spp. Gentianaceae.
130071. *HALENIA* sp.
No. 7984. Hungoh, Atuntze, at 2,600 m. altitude.
130072. *HALENIA* sp.
No. 10559. From Mount Miyetzumu, Atuntze, at 3,200 m. altitude.
130073. *HALENIA* sp.
No. 10600. From southwest of Atuntze at 3,400 m. altitude.
130074. *HALENIA* sp.
No. 14434. From Wachin, Muli, at 3,100 m. altitude.
130075. *HELWINGIA* sp. Cornaceae.
No. 15042. From the Likiang Snow Range at 3,000 m. altitude.
130076. *HIPPOPHAE* sp. Elaeagnaceae.
No. 8726. From Mount Miyetzumu, Atuntze, at 3,200 m. altitude.
130077. *HYDRANGEA* sp. Hydrangeaceae.
15307. From the Likiang Snow Range at 3,000 m. altitude.
- 130078 to 130081. *HYPERICUM* spp. Hypericaceae.
- 130078 and 130079. *HYPERICUM HOOKERIANUM* Wight and Arn.
For previous introduction see 128950.
130078. No. 7823. From Dokerla, Atuntze, at 2,800 m. altitude.
130079. No. 14729. From Yatsa, Muli, at 3,100 m. altitude.
130080. *HYPERICUM* sp.
No. 14861. From Guhtzun, Muli, at 2,500 m. altitude.
130081. *HYPERICUM* sp.
No. 14939. From Patith, Chungtien, at 2,600 m. altitude.
- 130082 to 130087. *ILEX* spp. Aquifoliaceae. Holly.
130082. *ILEX* sp.
No. 7826. From Dokerla, Atuntze, at 3,000 m. altitude.
130083. *ILEX* sp.
No. 7831. From Dokerla, Atuntze, at 3,100 m. altitude.

129889 to 130439—Continued

130084. *ILEX* sp.

No. 10610. From Mount Kaaperpu, Atuntze, at 3,000 m. altitude.

130085. *ILEX* sp.

No. 13536. From Haba, Chungtien, at 3,400 m. altitude.

130086. *ILEX* sp.

No. 14283. From Kulu, Muli, at 3,200 m. altitude.

130087. *ILEX* sp.

No. 14921. From Paitih, Chungtien, at 2,700 m. altitude.

130088 and 130089. *IMPATIENS* spp. Impatiaceae.

Snapweed.

From Kulu, Muli.

130088. No. 14227. Collected at 3,400 m. altitude.

130089. No. 14230. Collected at 3,500 m. altitude.

130090. *INDIGOPERA* sp. Fabaceae.

No. 14407. From Wachin, Muli, at 3,100 m. altitude.

130091 to 130105. *IRIS* spp. Iridaceae.130091. *IRIS CHRYSOGRAPHES* Dykes.

Goldvein iris.

No. 6260. Northeast of Deongomba, Muli, at 3,600 m. altitude. One of the handsomest of the beardless irises; the velvety, dark-purple flowers are brightened by golden reticulations at the throat, running into a signal patch in the blade.

For previous introduction see 99880.

130092. *IRIS* sp.

No. 10631. North of Tunghuling, Weihsi, at 4,100 m. altitude.

130093. *IRIS* sp.

No. 10775. From Baimashan, Atuntze, at 4,100 m. altitude.

130094. *IRIS* sp.

No. 10962. From Kungsinshuh, Chungtien, at 3,300 m. altitude.

130095. *IRIS BULLEYANA* Dykes.

Hollowstem iris.

No. 13516. From Haba, Chungtien, at 3,500 m. altitude. An iris, native to western China, that resembles *Iris clarkei*, except that the stem is hollow. The narrow leaves are glossy above and glaucous beneath, and the stem, 15 to 16 inches long, bears a single head of 1 or 2 flowers. The falls have a greenish-yellow oblong haft, veined and dotted with purple. On the obovate blade, the coloring becomes cleared and consists of broken veins and blotches of bright blue purple, paler at the edges. The oblanceolate, channeled standards are pale blue purple with deeper veins and diverge at an angle of about 60°. The keeled dark-purple styles are held high above the falls.

For previous introduction see 92494.

130096. *IRIS* sp.

No. 13590. From Tungwalung, Chungtien, at 3,500 m. altitude.

130097. *IRIS* sp.

No. 13617. From the Chungtien Plateau at 3,000 m. altitude.

130098. *IRIS* sp.

No. 13711. From Shianrentung, Chungtien, at 3,550 m. altitude.

130099. *IRIS* sp.

No. 13935. From Pica, Chungtien, at 3,100 m. altitude.

130100. *IRIS* sp.

No. 14228. From Kulu, Muli, at 3,500 m. altitude.

129889 to 130439—Continued

130101. IRIS sp.
No. 14435. From Wachin, Muli, at 3,100 m. altitude.
130102. IRIS sp.
No. 14534. Sigenii, Muli, at 3,300 m. altitude.
130103. IRIS sp.
No. 14541. From Sigenii, Muli, at 3,300 m. altitude.
130104. IRIS sp.
No. 14676. From Tinchang, Muli, at 3,800 m. altitude.
130105. IRIS sp.
No. 14883. From Lilang, Muli, at 2,600 m. altitude.
- 130106 to 130110. JASMINUM spp. Oleaceae. Jasmine.
130106. JASMINUM sp.
No. 7975. From Mount Yangtsa, near Atuntze, at 2,300 m. altitude.
130107. JASMINUM sp.
No. 10205. From Atuntze, at 2,850 m. altitude.
130108. JASMINUM sp.
No. 10586. From southwest of Atuntze at 3,200 m. altitude.
130109. JASMINUM sp.
No. 14486. From Wachin, Muli, at 3,000 m. altitude.
130110. JASMINUM sp.
No. 14816. From Wachin, Muli, at 3,000 m. altitude.
- 130111 to 139116. JUNIPERUS spp. Pinaceae. Juniper.
130111. JUNIPERUS FORMOSANA Hayata. Formosa juniper.
No. 5785. From Muli at 2,550 m. altitude. A tree 30 to 40 feet high, with several trunks arising from near the base, native to Taiwan. The spreading or ascending branches have pendulous branchlets, the linear, sharp-pointed leaves, 1 inch long, have 2 broad white bands above, and the red or orange-brown globose fruits are $\frac{1}{2}$ inch in diameter.
For previous introduction see 103127.
130112. JUNIPERUS sp.
No. 7900. From Dokerla, Atuntze, at 3,700 m. altitude.
130113. JUNIPERUS sp.
No. 13882. From Tehgoh, Chungtien, at 3,300 m. altitude.
130114. JUNIPERUS sp.
No. 14359. From Kulu, Muli, at 3,400 m. altitude.
130115. JUNIPERUS sp.
No. 15615. From the Likiang Snow Range at 3,000 m. altitude.
130116. JUNIPERUS sp.
No. 15644. From Hungpoh, Atuntze, between 3,800 and 4,000 m. altitude.
130117. KOELREUTERIA sp. Sapindaceae.
No. 14214. From Kehsy, Muli, at 2,500 m. altitude.
130118. KOELREUTERIA sp. Sapindaceae.
No. 14860. From Guhtzun, Muli, at 2,500 m. altitude.
130119. LARIX sp. Pinaceae. Larch.
No. 13805. From Shianrentung, Chungtien, at 3,700 m. altitude.

129889 to 130439—Continued

130120. *LEONURUS* sp. Menthaceae.

No. 10747. From west to Tungchuling, Weihsi, at 2,800 m. altitude.

130121. *LEONURUS SIBIRECUS* L. Menthaceae.

No. 14145. From Muli at 2,800 m. altitude.

130122 to 130124. *LESPEDEZA* spp. Fabaceae.130122. *LESPEDEZA* sp.

No. 13834. From Tehgoh, Chungtien, at 3,300 m. altitude.

130123. *LESPEDEZA HIRTELLA* Franch.

No. 1772. From Hungsa, Muli, at 3,000 m. altitude. A low shrub, sometimes 3 feet high, with leathery leaves. Native to southwestern China.

130124. *LESPEDEZA* sp.

No. 14885. From Lilang, Muli, at 2,600 m. altitude.

130125. *LEYCESTERIA* sp. Caprifoliaceae.

No. 13494. From Haba, Chungtien, at 3,000 m. altitude.

130126 to 130130. *LIGUSTRUM* spp. Oleaceae.

Privet.

130126. *LIGUSTRUM* sp.

No. 10581. From Mount Miyetzumu, Atuntze, at 3,400 m. altitude.

130127. *LIGUSTRUM* sp.

No. 10707. From west of Tungchuling, Weihsi, at 3,000 m. altitude.

130128. *LIGUSTRUM* sp.

No. 10929. From Lomahua, Chungtien, at 2,400 m. altitude.

130129. *LIGUSTRUM* sp.

No. 15290. From the Likiang Snow Range at 2,800 m. altitude.

130130. *LIGUSTRUM* sp.

No. 15660. From Hungpoh, Atuntze, between 2,600 and 2,800 m. altitude.

130131. *LITSEA* sp. Lauraceae.

No. 15003. From the Likiang Snow Range at 3,000 m. altitude.

130132 to 130139. *LONICERA* spp. Caprifoliaceae.

Honeysuckle.

130132. *LONICERA* sp.

No. 5361. From Yunning, between 2,600 and 2,800 m. altitude.

130133. *LONICERA* sp.

No. 7315. From Kup-a-den, Muli, at 2,300 m. altitude.

130134. *LONICERA* sp.

No. 7733. From Gu-ma-den, Muli, at 3,000 m. altitude.

130135. *LONICERA* sp.

No. 7776. From Shaw-shiang-liang-tze, Muli, at 3,900 m. altitude.

130136. *LONICERA* sp.

No. 12840. From Mowuh, Taucheng, at 3,600 m. altitude.

130137. *LONICERA* sp.

No. 14238. From Kulu, Muli, at 3,400 m. altitude.

130138. *LONICERA* sp.

No. 14278. From Kulu, Muli, at 3,300 m. altitude.

130139. *LONICERA* sp.

No. 14310. From Wachin, Muli, at 3,400 m. altitude.

129889 to 130439—Continued

130140. *LYSIMACHIA* sp. Primulaceae. **Loosestrife.**
 No. 10991. From Lichiashica, Chungtien, at 3,200 m. altitude.
130141. *MALUS* sp. Malaceae.
 No. 13477. From Gouyah, Chungtien, at 3,000 m. altitude.
- 130142 to 130148. *MECONOPSIS* spp. Papaveraceae.
 130142. *MECONOPSIS* sp.
 No. 7642. From Mount Gibboh, Muli, at 3,800 m. altitude.
130143. *MECONOPSIS* sp.
 No. 7913. From Dokerla, Atuntze, at 3,900 m. altitude.
130144. *MECONOPSIS* sp.
 No. 13274. From Bean, Konkaling, at 4,000 m. altitude.
130145. *MECONOPSIS* sp.
 No. 13653. From Tuatze, Chungtien, at 3,600 m. altitude.
130146. *MECONOPSIS* sp.
 No. 14274. From Kulu, Muli, at 3,300 m. altitude.
130147. *MECONOPSIS* sp.
 No. 14615. From Jinchang, Muli, at 4,000 m. altitude.
130148. *MECONOPSIS* sp.
 No. 15127. From the Likiang Snow Range at 3,400 m. altitude.
130149. *MEDICAGO* sp. Fabaceae.
 No. 10507. From Mount Kaakerpu, Atuntze, at 2,500 m. altitude.
130150. *MELIA* sp. Meliaceae.
 No. 14863. From Muli at 2,500 m. altitude.
130151. *MELIOSMA* sp. Sabiaceae.
 No. 14159. From Muli at 2,650 m. altitude.
130152. *MIRABILIS* sp. Nyctaginaceae.
 No. 10616. From Mount Kaakerpu, Atuntze, at 3,000 m. altitude.
130153. *MIRABILIS HIMALAICA* var. *CHINENSIS* Heim. Nyctaginaceae.
 No. 14796. From Shawan, Muli, at 3,000 m. altitude.
- 130154 to 130156. *MYRSINE* spp. Myrsinaceae.
 130154. *MYRSINE* sp.
 No. 5811. From northeast of Muli, Muli, at 2,700 m. altitude.
130155. *MYRSINE* sp.
 No. 7351. From Muli at 2,200 m. altitude.
130156. *MYRSINE* sp.
 No. 14124. From Muli at 2,500 m. altitude.
130157. *OSTEOMELES* sp. Malaceae.
 No. 14038. From Woosi, Muli, at 2,600 m. altitude.
- 130158 to 130161. *PAEONIA* spp. Ranunculaceae. **Peony.**
 130158. *PAEONIA* sp.
 No. 10470. From Mount Kaakerpu, Atuntze, at 2,400 m. altitude.
130159. *PAEONIA* sp.
 No. 13500. From Haba, Chungtien, at 3,000 m. altitude.

129889 to 130439—Continued

130160. *PAEONIA* sp.

No. 13581. From Haba, Chungtien, at 3,440 m. altitude.

130161. *PAEONIA LUTEA* Franch.

Golden peony.

No. 14147. East of Muli, Muli, at 3,000 m. altitude. A shrubby Chinese peony with a short woody stem 1 or 2 feet high and deep-green, leathery, 3-parted leaves, white beneath and about 1 foot long. The golden yellow single or slightly double flowers are not over 2 inches across.

For previous introduction see 100577.

130162. *PARIS* sp. Convallariaceae.

No. 14411. From Wachin, Muli, at 3,100 m. altitude.

130163. *PARNASSIA* sp. Saxifragaceae.

No. 7919. From Dokerla, Atuntze, at 3,400 m. altitude.

130164. *PEPEROMIA* sp. Piperaceae.

No. 14810. From Guhtzun, Muli, at 3,150 m. altitude.

130165 and 130166. *PHILADELPHUS DELAVAYI* L. Henry. Hydrangeaceae.

Mockorange.

A shrub 15 to 20 feet high, native to Yunnan Province. The remotely serrate, ovate leaves, 2 to 4 inches long, are dark green above and tomentose beneath. The very fragrant flowers, nearly 2 inches across, have a violet-purple calyx and white petals, slightly tinged with purple on the outside, and are borne in racemes.

For previous introduction see 100581.

130165. No. 10589. From southwest of Atuntze at 3,200 m. altitude.

130166. No. 14683. From Tinchang, Muli, at 3,800 m. altitude.

130167. *PHILADELPHUS* sp. Hydrangeaceae.

No. 15066. From the Likiang Snow Range at 3,000 m. altitude.

130168 to 130170. *PHOTINIA* spp. Malaceae.130168. *PHOTINIA* sp.

No. 10908. From Lomahua, Chungtien, at 2,400 m. altitude.

130169. *PHOTINIA* sp.

No. 14824. From Guhtzun, Muli, at 3,100 m. altitude.

130170. *PHOTINIA* sp.

No. 15172. From Yeichih, Atuntze, at 2,400 m. altitude.

130171 to 130173. *PHYTOLACCA* spp. Phytolaccaceae.130171. *PHYTOLACCA* sp.

No. 5526. From Mount Gibboh, Muli, at 2,300 m. altitude.

130172. *PHYTOLACCA* sp.

No. 10530. From Mount Mityetzumu, Atuntze, at 2,000 m. altitude.

130173. *PHYTOLACCA ACINOSA* Roxb.

Pokeberry.

No. 13567. From Haba, Chungtien, at 2,950 m. altitude. A stout, almost woody plant, closely resembling our native pokeberry and used as greens in the same way. Native to China and Japan.

For previous introduction see 81299.

130174 to 130176. *PICEA* spp. Pinaceae.

Spruce.

130174. *PICEA* sp.

No. 7955. From Dokerla, Atuntze, at 3,200 m. altitude.

129889 to 130439—Continued

130175. *PICEA* sp.

No. 14717. From Jungchi, Muli, at 3,100 m. altitude.

130176. *PICEA* sp.

No. 15119. From the Likiang Snow Range at 3,200 m. altitude.

130177 to 130190. *PINUS* spp. Pinaceae.

Pine.

130177. *PINUS* sp.

No. 8009. From the Likiang Snow Range at 2,800 m. altitude.

130178 and 130179. *PINUS ARMANDI* Franch.

Armand pine.

A tall 5-leaved pine 60 to 100 feet high, with a trunk often 6 feet in diameter that grows in western China on well-drained, moist mountain slopes between 3,000 and 5,000 m. altitude. The slender, bright-green leaves are about 4 inches long. The edible seeds are sold in Chinese markets.

For previous introduction see 111370.

130178. No. 8033. From the Likiang Snow Range at 2,850 m. altitude.

130179. No. 10500. From Mount Kaakerpu, Tehching, at 2,600 m. altitude.

130180. *PINUS YUNNANENSIS* Franch.

Yunnan pine.

No. 10725. From west of Tungchuling, Weihsi, at 3,000 m. altitude. A large forest tree, native to Yunnan Province. The long, slender, drooping leaves are up to 10 inches long, and the cones, 2 to 4 inches long, have flat scales.

For previous introduction see 105025.

130181. *PIPTANTHUS* sp. Fabaceae.

No. 13885. From the Chungtien Plateau at 3,250 m. altitude.

130182. *PIPTANTHUS* sp. Fabaceae.

No. 14286. From Kulu, Muli, at 3,300 m. altitude.

130183 to 130185. *PITTOSPORUM* spp. Pittosporaceae.130183. *PITTOSPORUM* sp.

No. 10311. From Mount Kaakerpu, Atuntze, at 2,600 m. altitude.

130184. *PITTOSPORUM* sp.

No. 10922. From Lomahua, Chungtien, at 2,300 m. altitude.

130185. *PITTOSPORUM* sp.

No. 14382. From Wachin, Muli, at 3,000 m. altitude.

130186. *PLECTRANTHUS AMETHYSTOIDES* Benth. Menthaceae.

No. 14884. From Lilang, Muli, at 2,600 m. altitude.

130187. *PODOPHYLLUM* sp. Berberidaceae.

No. 10658. From north of Tungchuling, Weihsi, at 4,000 m. altitude.

130188. *PODOPHYLLUM* sp. Berberidaceae.

No. 11318. From the Chungtien Plateau at 3,200 m. altitude.

130189. *POLYGONATUM* sp. Convallariaceae.

No. 14297. From Kulu, Muli, at 3,200 m. altitude.

130190. *POLYGONATUM* sp. Convallariaceae.

No. 14797. From Shawan, Muli, at 3,000 m. altitude.

130191. *POLYGONUM* sp. Polygonaceae.

No. 10794. From Baimashan, Atuntze, at 4,100 m. altitude.

129889 to 130439—Continued

130192 to 130198. *POTENTILLA* spp. Rosaceae.

130192 to 130194. *POTENTILLA SIEMERSIANA* Lahm.

130192. No. 13469. From Wung, Chungtien, at 2,800 m. altitude.

130193. No. 13526. From Haba, Chungtien, at 2,200 m. altitude.

130194. No. 13605. From the Chungtien Plateau at 3,000 m. altitude.

130195. *POTENTILLA GRIFFITHSII* Hook. f.

No. 14231. From Kulu, Muli, at 3,500 m. altitude. An erect or ascending herbaceous perennial 1 to 2 feet high, with compound leaves about 2 inches long and yellow flowers in paniced corymbs. Native to the Himalayas between 2,000 and 5,000 m. altitude.

For previous introduction see 111073.

130196 and 130197. *POTENTILLA SIEMERSIANA* Lehm.

130196. No. 14236. From Kulu, Muli, at 3,400 m. altitude.

130197. No. 14354. From Kulu, Muli, at 3,200 m. altitude.

130198. *POTENTILLA* sp.

No. 14595. From Jinchang, Muli, at 3,800 m. altitude.

130199 to 130247. *PRIMULA* spp. Primulaceae.

130199. *PRIMULA* sp.

No. 7702. From Gu-ma-den, Muli, at 3,300 m. altitude.

130200. *PRIMULA* sp.

No. 7756. Shaw-shiang-liang-tze, Muli, at 3,700 m. altitude.

130201. *PRIMULA* sp.

No. 8568. From Mount Kaakerpu, Atuntze, at 3,250 m. altitude.

130202. *PRIMULA* sp.

No. 8681. From Mount Miyetzumu, Atuntze, at 3,600 m. altitude.

130203. *PRIMULA* sp.

No. 10551. From Mount Miyetzumu, Atuntze, at 3,400 m. altitude.

130204. *PRIMULA* sp.

No. 10652. From north of Tungchuling, Weihsi, at 4,000 m. altitude.

130205. *PRIMULA* sp.

No. 10760. From Baimashan, Atuntze, at 4,100 m. altitude.

130206. *PRIMULA* sp.

No. 10968. From Lichiasica, Chungtien, at 3,350 m. altitude.

130207. *PRIMULA* sp.

No. 10970. From Lichiasica, Chungtien, at 3,450 m. altitude.

130208. *PRIMULA* sp.

No. 10973. From Lichiasica, Chungtien, at 3,450 m. altitude.

130209. *PRIMULA* sp.

No. 13144. From the Konkaling Snow Range at 4,000 m. altitude.

130210. *PRIMULA* sp.

No. 13169. From the Konkaling Snow Range at 4,000 m. altitude.

130211. *PRIMULA* sp.

No. 13433. From Tungwalung, Chungtien, at 3,600 m. altitude.

130212. *PRIMULA* sp.

No. 13435. From Tungwalung, Chungtien, at 3,400 m. altitude.

129889 to 130439—Continued

130213. PRIMULA sp.
No. 13520. From Haba, Chungtien, at 3,500 m. altitude.
130214. PRIMULA sp.
No. 13521. From Haba, Chungtien, at 3,600 m. altitude.
130215. PRIMULA sp.
No. 13541. From Haba, Chungtien, at 3,400 m. altitude.
130216. PRIMULA sp.
No. 13603. From the Chungtien Plateau, at 3,000 m. altitude.
130217. PRIMULA sp.
No. 13628. From Juatze, Chungtien, at 3,600 m. altitude.
130218. PRIMULA sp.
No. 13629. From Juatze, Chungtien, at 3,600 m. altitude.
130219. PRIMULA sp.
No. 13633. From Juatze, Chungtien, at 3,700 m. altitude.
130220. PRIMULA sp.
No. 13651. From Juatze, Chungtien, at 3,600 m. altitude.
130221. PRIMULA sp.
No. 13672. From the Chungtien Plateau, at 3,000 m. altitude.
130222. PRIMULA sp.
No. 13738. From Shianrentung, Chungtien, at 3,700 m. altitude.
130223. PRIMULA sp.
No. 13757. From Shianrentung, Chungtien, at 3,600 m. altitude.
130224. PRIMULA sp.
No. 13843. From Tehgoh, Chungtien, at 3,150 m. altitude.
130225. PRIMULA sp.
No. 13861. From Tehgoh, Chungtien, at 3,100 m. altitude.
130226. PRIMULA sp.
No. 13879. From Tehgoh, Chungtien, at 3,150 m. altitude.
130227. PRIMULA sp.
No. 13914. From Pica, Chungtien, at 3,400 m. altitude.
130228. PRIMULA sp.
No. 13930. From Pica, Chungtien, at 3,400 m. altitude.
130229. PRIMULA sp.
No. 14222. From Kulu, Muli, at 3,500 m. altitude.
130230. PRIMULA sp.
No. 14262. From Kulu, Muli, at 3,400 m. altitude.
130231. PRIMULA sp.
No. 14321. From Yehtze, Muli, at 3,100 m. altitude.
130232. PRIMULA sp.
No. 14535. From Sigenii, Muli, at 3,300 m. altitude.
130233. PRIMULA sp.
No. 14543. From Sigenii, Muli, at 3,300 m. altitude.
130234. PRIMULA sp.
No. 14571. From Jinchang, Muli, at 3,800 m. altitude.

129889 to 130439—Continued**130235. PRIMULA sp.**

No. 14607. From Tinchang, Muli, at 4,000 m. altitude.

130236. PRIMULA sp.

No. 14946. From Haba, Chungtien, at 3,400 m. altitude.

130237. PRIMULA sp.

No. 14972. From Haba. Chungtien, at 2,600 m. altitude.

130238. PRIMULA sp.

No. 15132. From the Likiang Snow Range at 2,800 m. altitude.

130239. PRIMULA sp.

No. 15133. From the Likiang Snow Range at 3,000 m. altitude.

130240. PRIMULA sp.

No. 15143. From the Likiang Snow Range at 3,200 m. altitude.

130241. PRIMULA sp.

No. 15161. From the Likiang Snow Range at 3,000 m. altitude.

130242. PRIMULA sp.

No. 15167. From the Likiang Snow Range at 2,400 m. altitude.

130243. PRIMULA sp.

No. 15211. From the Likiang Snow Range at 2,800 m. altitude.

130244. PRIMULA sp.

No. 15299. From the Likiang Snow Range at 3,000 m. altitude.

130245. PRIMULA sp.

No. 15351. From the Likiang Snow Range at 3,200 m. altitude.

130246. PRIMULA sp.

No. 15539. From the Likiang Snow Range at 3,000 m. altitude.

130247. PRIMULA sp.

No. 15637. From Hungpoh, Atuntze, at 3,800 m. altitude.

130248 and 130249. PRINSEPIA UTILIS Royle. Amygdalaceae.

A spiny, very ornamental shrub, native to Yunnan Province, between 3,000 and 4,000 m. altitude. In December and January the pendent branches bear a great profusion of white flowers. A cooking oil is expressed from the seeds, which are gathered by the Chinese and native tribes.

For previous introduction see 55719.

130248. No. 5364. From Yunning at 2,000 m. altitude.

130249. No. 6175. From Wachin, Muli, at 3,250 m. altitude.

130250 to 130256. PRUNUS spp. Amygdalaceae.**130250. PRUNUS sp.**

No. 8028. From the Likiang Snow Range at 2,700 m. altitude.

130251. PRUNUS sp.

No. 7728. Gu-ma-den, Muli, at 2,800 m. altitude.

130252. PRUNUS sp.

No. 8410. From Mount Kaakerpu, Atuntze, at 3,200 m. altitude.

130253. PRUNUS sp.

No. 10822. From Baimashan, Atuntze, at 3,600 m. altitude.

130254. PRUNUS sp.

No. 12775. From Wongshui, Chungtien, at 2,800 m. altitude.

129889 to 130439—Continued

130255. *PRUNUS* sp.
No. 13474. From Puh, Chungtien, at 2,800 m. altitude.
130256. *PRUNUS* sp.
No. 15046. From the Likiang Snow Range at 3,000 m. altitude.
- 130257 to 130259. *PYRACANTHA* spp. Malaceae.
130257. *PYRACANTHA* sp.
No. 7985. From Hungpoh, Atuntze, at 2,600 m. altitude.
130258. *PYRACANTHA* sp.
No. 14839. From Guhtzun, Muli, at 3,100 altitude.
130259. *PYRACANTHA* sp.
No. 15074. From the Likiang Snow Range at about 3,000 m. altitude.
- 130260 to 130263. *RHAMNUS* spp. Rhamnaceae. **Buckthorn.**
130260. *RHAMNUS* sp.
No. 14086. From Muli at 2,500 m. altitude.
130261. *RHAMNUS* sp.
No. 14123. From Muli at 2,500 m. altitude.
130262. *RHAMNUS* sp.
No. 14415. From Wachin, Muli, at 3,100 m. altitude.
130263. *RHAMNUS* sp.
No. 15077. From the Likiang Snow Range at 3,000 m. altitude.
- 130264 to 130270. *RHEUM* spp. Polygonaceae. **Rhubarb.**
130264. *RHEUM* sp.
No. 12849. From Mowuh, Taucheng, at 3,600 m. altitude.
130265. *RHEUM* sp.
No. 13542. From Haba, Chungtien, at 3,400 m. altitude.
130266. *RHEUM* sp.
No. 13546. From Haba, Chungtien, at 3,500 m. altitude.
130267. *RHEUM* sp.
No. 13998. From Kungsinsuh, Chungtien, at 3,450 m. altitude.
130268. *RHEUM* sp.
No. 14364. From Kulu, Muli, at 3,300 m. altitude.
130269. *RHEUM* sp.
No. 14586. From Jinchang, Muli, at 3,300 m. altitude.
130270. *RHEUM* sp.
No. 14656. From Jinchang, Muli, at 4,100 m. altitude.
- 130271 to 130315. *RHODODENDRON* spp. Ericaceae.
Nos. 130271 to 130276. Collected at Dokerla, Atuntze.
130271. *RHODODENDRON* sp.
No. 7863. From 3,200 m. altitude.
130272. *RHODODENDRON* sp.
No. 7868. From 3,200 m. altitude.
130273. *RHODODENDRON* sp.
No. 7869. From 3,200 m. altitude.
130274. *RHODODENDRON* sp.
No. 7872. From 3,700 m. altitude.

129889 to 130439—Continued

130275. RHODODENDRON sp.

No. 7896. From 3,700 m. altitude.

130276. RHODODENDRON sp.

No. 7934. From between 3,000 and 3,200 m. altitude.

Nos. 130277 to 130279. Collected at Hungpoh, Atuntze, at 3,700 m. altitude.

130277. RHODODENDRON sp.

No. 7992.

130278. RHODODENDRON sp.

No. 7994.

130279. RHODODENDRON sp.

No. 8000.

130280. RHODODENDRON sp.

No. 8610. From Mount Miyetzumu, Atuntze, at 3,350 m. altitude.

Nos. 130281 and 130282. Collected southwest of Atuntze at 3,400 m. altitude.

130281. RHODODENDRON sp.

No. 10596.

130282. RHODODENDRON sp.

No. 10599.

Nos. 130283 to 130287. Collected north of Tungchuling, Weihsi.

130283. RHODODENDRON sp.

No. 10678. From 3,800 m. altitude.

130284. RHODODENDRON sp.

No. 10682. From 4,000 m. altitude.

130285. RHODODENDRON sp.

No. 10684. From 3,800 m. altitude.

130286. RHODODENDRON sp.

No. 10685. From 3,800 m. altitude.

130287. RHODODENDRON sp.

No. 10688. From 4,000 m. altitude.

130288. RHODODENDRON sp.

No. 10937. From Lomahua, Chungtien, at 2,700 m. altitude.

130289. RHODODENDRON sp.

No. 10993. From Lichiashica, Chungtien, at 3,200 m. altitude.

130290. RHODODENDRON sp.

No. 14843. From Guhtzun, Muli, at 2,520 m. altitude.

130291. RHODODENDRON sp.

No. 14935. From Chichih, Chungtien, at 2,500 m. altitude.

Nos. 130292 and 130293. From the Likiang Snow Range at 3,000 m. altitude.

130292. RHODODENDRON sp.

No. 15027.

130293. RHODODENDRON sp.

No. 15104.

130294. RHODODENDRON sp.

No. 15656. From Hungpoh, Atuntze, between 3,500 and 3,600 m. altitude.

Nos. 130295 to 130297. From Shianrentung, Chungtien.

129889 to 130439—Continued

130295. RHODODENDRON sp.

No. 13723. From 3,300 m. altitude.

130296. RHODODENDRON sp.

No. 13730. From 3,600 m. altitude.

130297. RHODODENDRON sp.

No. 13806. From 3,700 m. altitude.

Nos. 130298 and 130299. From the Chungtien Plateau at 3,000 m. altitude.

130298. RHODODENDRON sp.

No. 13894.

130299. RHODODENDRON sp.

No. 13895.

Nos. 130300 to 130302. From Pica, Chungtien, at 3,400 m. altitude.

130300. RHODODENDRON sp.

No. 13919.

130301. RHODODENDRON sp.

No. 13928.

130302. RHODODENDRON sp.

No. 13931.

130303. RHODODENDRON sp.

No. 13986. From Kungsinsuh, Chungtien, at 3,400 m. altitude.

Nos. 130304 and 130305. From Wachin, Muli, at 3,100 m. altitude.

130304. RHODODENDRON sp.

No. 14431.

130305. RHODODENDRON sp.

No. 14436.

Nos. 130306 to 130310. From Tinchang, Muli, between 4,000 and 4,100 m. altitude.

130306. RHODODENDRON sp.

No. 14636.

130307. RHODODENDRON sp.

No. 14641.

130308. RHODODENDRON sp.

No. 14647.

130309. RHODODENDRON sp.

No. 14662.

130310. RHODODENDRON sp.

No. 14663.

130311. RHODODENDRON sp.

No. 14703. From Wati, Muli, at 2,900 m. altitude.

130312. RHODODENDRON SEARSIAE Rehd. and Wils.

No. 14720. From Jungi, Muli, at 3,200 m. altitude. An upright evergreen shrub up to 15 feet high, with oblanceolate, acuminate leaves 2 to 3 inches long and terminal umbels of 3 to 8 white or pale-purple flowers of funnel-campanulate form and 1 to 2 inches across. Related to *Rhododendron concinnum* of the Triflorum series. Native to western China at altitudes of 2,500 to 3,500 m.

Nos. 130313 to 130315. From Deongomba, Muli, at 3,500 m. altitude.

129889 to 130439—Continued

130313. RHODODENDRON sp.

No. 14752.

130314. RHODODENDRON sp.

No. 14754.

130315. RHODODENDRON sp.

No. 14757.

130316 to 130319. RHUS spp. Anacardiaceae.

Sumac.

130316. RHUS sp.

No. 10338. From Mount Kaakerpu, Atuntze, at 2,800 m. altitude.

130317. RHUS sp.

No. 10374. From Mount Kaakerpu, Atuntze.

130318. RHUS sp.

No. 14039. From Woosi, Muli, at 2,800 m. altitude.

130319. RHUS sp.

No. 15664. From Hungpoh, Atuntze, at 2,200 m. altitude.

130320. RIBES sp. Grossulariaceae.

No. 13990. From Kungsinshuh, Chungtien, at 3,400 m. altitude.

130321 to 130338. ROSA spp. Rosaceae.

Rose.

130321. ROSA BRUNONII Lindl.

Brown's rose.

No. 5381. From Yunning at 2,500 m. altitude. Also called the *Himalayan Musk* rose. A tall shrub with arching branches, short stout hooked prickles, and fragrant single white flowers about 2 inches across, borne in large, many-flowered clusters. Native to the Himalayas and also to western China.

For previous introduction see 58616.

130322. ROSA OMEIENSIS Rolfe.

Mount Omei rose.

No. 13431. From Tungwalung at 3,700 m. altitude. A shrub up to 6 m. high, native to southwestern China between 3,000 and 4,000 m. altitude. The bush branches from the base, and the young branches, broadly winged, are carmine. The flowers are white.

For previous introduction see 129280.

130323. ROSA sp.

No. 10598. From southwest of Atuntze at 3,400 m. altitude.

Nos. 130324 and 130325. From west of Tungchuling, Weihsi, at 3,000 m. altitude.

130324. ROSA sp.

No. 10705.

130325. ROSA sp.

No. 10706.

130326. ROSA sp.

No. 10907. From Lomahua, Chungtien, at 2,400 m. altitude.

130327. ROSA sp.

No. 13232. From the Konkaling Snow Range, at 3,000 m. altitude.

130328. ROSA sp.

No. 13858. From Tehgoh, Chungtien, at 3,300 m. altitude.

130329. ROSA sp.

No. 13996. From Kungsinshuh, Chungtien, at 3,400 m. altitude.

129889 to 130439—Continued

- 130330. ROSA sp.**
No. 14093. From Muli at 2,500 m. altitude.
- 130331. ROSA sp.**
No. 14719. From Jungi, Muli, at 3,200 m. altitude.
- 130332. ROSA sp.**
No. 14808. From Wachin, Muli, at 3,000 m. altitude.
- 130333. ROSA sp.**
No. 14842. From Guhtzun, Muli, at 3,100 m. altitude.
- 130334. ROSA sp.**
No. 14910. From Tahlah, Chungtien, at 3,480 m. altitude.
- 130335. ROSA sp.**
No. 14942. From Haba, Chungtien, at 2,600 m. altitude.
- 130336. ROSA sp.**
No. 15293. From the Likiang Snow Range at 2,800 m. altitude.
- 130337. ROSA sp.**
No. 15634. From Hungpoh, Atuntze, at 3,800 m. altitude.
- 130338. ROSA sp.**
No. 15657. From Hungpoh, Atuntze, at 3,600 m. altitude.
- 130339. RUBIA sp. Rubiaceae.**
No. 14833. From Mount Guhtzun, Muli, at 3,100 m. altitude.
- 130340 to 130343. RUBUS spp. Rosaceae.**
Nos. 130340 and 130341. From Gu-ma-den, Muli.
- 130340. RUBUS sp.**
No. 7731. From 3,000 m. altitude.
- 130341. RUBUS sp.**
No. 7740. From 2,900 m. altitude.
- 130342. RUBUS sp.**
No. 13556. From Haba, Chungtien, at 3,040 m. altitude.
- 130343. RUBUS sp.**
No. 14288. From Kulu, Muli, at 3,200 m. altitude.
- 130344 to 130347. RUMEX spp. Polygonaceae.**
- 130344. RUMEX sp.**
No. 10696. From west of Tungchuling, Weihsi, at 3,000 m. altitude.
- 130345. RUMEX sp.**
No. 10810. From Baimashan, Atuntze, at 4,000 m. altitude.
- 130346. RUMEX sp.**
No. 12883. From Konkaling at 3,100 m. altitude.
- 130347. RUMEX sp.**
No. 14908. From Tahlah, Chungtien, at 3,480 m. altitude.
- 130348. SALVIA sp. Menthaceae.**
No. 14501. From Wachin, Muli, at 3,000 m. altitude.
- 130349. SALVIA sp. Menthaceae.**
No. 14750. From Yatsa, Muli, at 3,280 m. altitude.

129889 to 130439—Continued**130350 to 130353. SAMBUCUS spp. Caprifoliaceae.****130350. SAMBUCUS sp.**

No. 7442. From Lilang, Muli, at 2,800 m. altitude.

130351. SAMBUCUS sp.

No. 10188. From Mount Yangtsa, Atuntze, at 3,250 m. altitude.

130352. SAMBUCUS sp.

No. 10570. From Mount Miyetzumu, Atuntze, at 3,400 m. altitude.

130353. SAMBUCUS sp.

No. 13206. From Tsungu, Konkaling, at 3,500 m. altitude.

130354. SAPINDUS sp. Sapindaceae.

No. 15673. From Yeichih, Weihsi, at 2,400 m. altitude.

130355 to 130361. SAUSSUREA sp. Asteraceae.**130355. SAUSSUREA sp.**

No. 13828. From Tehgoh, Chungtien, at 3,300 m. altitude.

130356. SAUSSUREA sp.

No. 14234. From Kulu, Muli, at 3,500 m. altitude.

130357. SAUSSUREA sp.

No. 14528. From Sigenii, Muli, at 3,300 m. altitude.

130358. SAUSSUREA sp.

No. 14561. From Jinchang, Muli, at 3,800 m. altitude.

130359. SAUSSUREA sp.

No. 14597. From Jinchang, Muli, at 3,800 m. altitude.

130360. SAUSSUREA sp.

No. 14643. From Tinchang, Muli, at 4,000 m. altitude.

130361. SAUSSUREA sp.

No. 15545. From the Likiang Snow Range at 2,800 m. altitude.

130362 to 130365. SAXIFRAGA spp. Saxifragaceae.**130362. SAXIFRAGA sp.**

No. 13655. From Tuatze, Chungtien, at 3,700 m. altitude.

130363. SAXIFRAGA sp.

No. 14627. From Tinchang, Muli, at 4,000 m. altitude.

130364. SAXIFRAGA sp.

No. 14628. From Tinchang, Muli, at 4,000 m. altitude.

130365. SAXIFRAGA sp.

No. 10672. From north of Tungchuling, Weihsi, at 3,800 m. altitude.

130366. SCABIOSA sp. Dipsacaceae.

No. 13625. From the Chungtien Plateau at 3,100 m. altitude.

130367. SCABIOSA sp. Dipsacaceae.

No. 14742. From Yatsa, Muli, at 3,100 m. altitude.

130368. SCHIMA sp. Theaceae.

No. 10924. From Lomahua, Chungtien, at 2,300 m. altitude.

130369. SCHIZANDRA sp. Magnoliaceae.

No. 10483. From Mount Kaakerpu, Atuntze, at 3,000 m. altitude.

129889 to 130439—Continued

130370. SCHIZANDRA sp. Magnoliaceae.

No. 13497. From Haba, Chungtien, at 3,000 m. altitude.

130371 to 130373. SEDUM spp. Crassulaceae.

130371. SEDUM sp.

No. 10995. From Lichiashica, Chungtien, at 3,200 m. altitude.

130372. SEDUM sp.

No. 14432. From Wachin, Muli, at 3,100 m. altitude.

130373. SEDUM sp.

No. 14826. From Guhtzun, Muli, at 3,100 m. altitude.

130374. SIBIRAEA sp. Rosaceae.

No. 13093. From the Konkaling Snow Range, between 3,700 and 4,000 m. altitude.

130375. SIBIRAEA sp. Rosaceae.

No. 14359. From Kulu, Muli, at 3,200 m. altitude.

130376. SIEGESBECKIA ORIENTALIS L. Asteraceae.

No. 14500. From Wachin, Muli, at 2,800 m. altitude. An erect, yellow-flowered annual up to 3 feet high, native to the Tropics of both hemispheres.

For previous introduction see 114801.

130377. SILENE sp. Silenaceae.

No. 14671. From Tinchang, Muli, at 4,100 m. altitude.

130378 to 130380. SOPHORA DAVIDII (Franch.) Komarow. Fabaceae.
Vetchleaf sophora.

A spiny shrub up to 6 feet high, with slender spreading pubescent branchlets, native to central and western China. The pinnately compound leaves, 1 to 2 inches long, have 11 to 15 small elliptic leaflets, and the violet to white, pea-shaped flowers, $\frac{1}{2}$ inch long, are in racemes of 6 to 12 on short terminal branchlets.

For previous introduction see 103469.

130378. No. 7330. From Muli at 2,000 m. altitude.

130379. No. 10213. From Atuntze at 2,850 m. altitude.

130380. No. 14381. From Wachin, Muli, at 3,000 m. altitude.

130381 to 130383. SORBARIA spp. Rosaceae.

False-spirea.

130381. SORBARIA ARBOREA C. Schneid.

Tree-spirea.

No. 7821. From Dokerla, Atuntze, at 2,700 m. altitude. A tree from 10 to 35 feet high, with the young twigs olive gray. The leaves are lance-shaped or more often oblong, with the lower surfaces more or less hairy and the margin serrate. The white flowers are about $\frac{1}{4}$ inch wide, and the fruit is probably $\frac{1}{16}$ of an inch in diameter.

For previous introduction see 43727.

130382. SORBARIA sp.

No. 10591. From southwest of Atuntze at 3,200 m. altitude.

130383. SORBARIA sp.

No. 10715. From west of Tungchuling, Weihsu, at 3,000 m. altitude.

130384 to 130387. SORBUS spp. Malaceae.

130384. SORBUS sp.

No. 7845. From Dokerla, Atuntze, at 3,100 m. altitude.

130385. SORBUS sp.

No. 10508. From Mount Kaakerpu, Atuntze, at 3,300 m. altitude.

129889 to 130439—Continued

130386. *SOEBUS* sp.

No. 14718. From Jungchi, Muli, at 3,200 m. altitude.

130387. *SOEBUS* sp.

No. 14919. From Paitih, Chungtien, at 3,000 m. altitude.

130388 and 130389. *SPENCEBIA BAMALANA* Trimen. Rosaceae.

A free-flowering and attractive herbaceous perennial about 1 foot high, with erect or ascending stems covered with silvery hairs. The stem leaves are reduced to 1 or 2 pairs of narrowly oval leaflets, and the golden or red-yellow flowers are in stiff open racemes. Native to dry upland pastures of western Szechwan and Yunnan.

For previous introduction see 100225.

130388. No. 13699. From the Chungtien Plateau at 3,100 m. altitude.

130389. No. 14553. From Jinchang, Muli, at 3,800 m. altitude.

130390 to 130393. *SPIRAEA* spp. Rosaceae.130390. *SPIRAEA* sp.

No. 14399. From Wachin, Muli, at 3,100 m. altitude.

Nos. 130391 to 130393. From Sigenii, Muli, at 3,300 m. altitude.

130391. *SPIRAEA* sp.

No. 14521.

130392. *SPIRAEA* sp.

No. 14522.

130393. *SPIRAEA* sp.

No. 14532.

130394 to 130398. *SWERTIA* spp. Gentianaceae.130394. *SWERTIA* sp.

No. 7983. From Hungpoh, Atuntze, at 2,600 m. altitude.

130395. *SWERTIA* sp.

No. 14614. From Jinchang, Muli, at 4,000 m. altitude.

130396. *SWERTIA* sp.

No. 14730. From Yatsa, Muli, at 3,100 m. altitude.

130397. *SWERTIA* sp.

No. 14937. From Chichih, Chungtien, at 2,600 m. altitude.

130398. *SWERTIA* sp.

No. 15108. From Likiang Snow Range at 3,000 m. altitude.

130399. *TARAXACUM* sp. Cichoriaceae.

Dandelion.

No. 7767. From Shaw-shiang-liang-tze, Muli, at 3,000 m. altitude.

130400. *TARAXACUM OFFICINALE* Weber. Cichoriaceae.

Dandelion.

No. 14167. From Muli at 2,500 m. altitude.

130401 to 130410. *THALICTRUM* spp. Ranunculaceae.

Meadowrue.

130401. *THALICTRUM* sp.

No. 10185. From Mount Yangtsa, near Atuntze, at 3,250 m. altitude.

130402. *THALICTRUM* sp.

No. 10511. From Mount Kaakerpu, Atuntze, at 3,300 m. altitude.

130403. *THALICTRUM* sp.

No. 10568. From Mount Miyetzumu, Atuntze, at 3,400 m. altitude.

129889 to 130439—Continued

130404. *THALICTRUM* sp.
No. 10992. From Lichiashica, Chungtien, at 3,200 m. altitude.
130405. *THALICTRUM* sp.
No. 13623. From the Chungtien Plateau, at 3,100 m. altitude.
130406. *THALICTRUM* sp.
No. 14273. From Kulu, Muli, at 3,200 m. altitude.
130407. *THALICTRUM* sp.
No. 14409. From Wachin, Muli, at 3,100 m. altitude.
130408. *THALICTRUM* sp.
No. 14421. From Wachin, Muli, at 3,100 m. altitude.
130409. *THALICTRUM* sp.
No. 14746. From Deongomba, Muli, at 3,200 m. altitude.
130410. *THALICTRUM* sp.
No. 15480. From the Likiang Snow Range at 3,000 m. altitude.
130411. *TILIA* sp. Tiliaceae.
No. 15540. From the Likiang Snow Range at 3,000 m. altitude.
130412. *TILIA* sp. Tiliaceae.
No. 14723. From Tung, Muli, at 2,800 m. altitude.
130413. *TRIGONOTIS* sp. Boraginaceae.
No. 14499. From Yunnanpuh, Muli, at 2,500 m. altitude.
130414. *TRIOSTEUM* sp. Caprifoliaceae.
No. 14246. From Kulu, Muli, at 3,400 m. altitude.
130415. *TSUGA* sp. Pinaceae.
No. 7939. From Dokerla, Atuntze, between 2,900 and 3,100 m. altitude.
130416. *VERBENA OFFICINALIS* L. Verbenaceae. **European vervain.**
No. 10518. From Mount Kaakerpu, Atuntze, at 3,000 m. altitude.
130417. *VERONICA* sp. Scrophulariaceae.
No. 7699. From Mount Mitzuga, Mull, at 3,300 m. altitude.
130418. *VERONICA* sp. Scrophulariaceae.
No. 10898. From Baimashan, Atuntze, at 3,200 m. altitude.
- 130419 to 130429. *VIBURNUM* spp. Caprifoliaceae.
130419. *VIBURNUM* sp.
No. 7948. From Dokerla, Atuntze, at 2,800 m. altitude.
130420. *VIBURNUM* sp.
No. 10911. From Lomahua, Chungtien at 2,400 m. altitude.
130421. *VIBURNUM* sp.
No. 13446. From Tungwalung, Chungtien, at 3,000 m. altitude.
130422. *VIBURNUM* sp.
No. 13485. From Haba, Chungtien, at 2,300 m. altitude.
130423. *VIBURNUM* sp.
No. 13557. From Haba, Chungtien, at 2,600 m. altitude.
130424. *VIBURNUM* sp.
No. 13561. From Haba, Chungtien, at 2,800 m. altitude.

129889 to 130439—Continued

130425. VIBURNUM sp.

No. 14116. From Muli at 2,520 m. altitude.

130426. VIBURNUM sp.

No. 14383. From Wachin, Muli, at 3,000 m. altitude.

130427. VIBURNUM sp.

No. 14856. From Guhtzun, Muli, at 2,500 m. altitude.

130428. VIBURNUM sp.

No. 14961. From Haba, Chungtien, at 2,700 m. altitude.

130429. VIBURNUM sp.

No. 15163. From the Likiang Snow Range at about 3,000 m. altitude.

130430. VITEX sp. Verbenaceae.

Chaste-tree.

No. 14714. From Jungchi, Muli, at 3,300 m. altitude.

130431. VITEX sp. Verbenaceae.

Chaste-tree.

No. 14879. From Lilang, Muli, at 2,600 m. altitude.

130432. VITIS sp. Vitaceae.

Grape.

No. 10575. From Mount Miyetzumu, Atuntze, at 3,400 m. altitude.

130433. VITIS sp. Vitaceae.

Grape.

No. 13506. From Haba, Chungtien, at 2,800 m. altitude.

130434 to 130439. LYONIA spp. Ericaceae.

130434. LYONIA sp.

No. 7963. From Dokerla, Atuntze, at 2,800 m. altitude.

130435. LYONIA sp.

No. 10896. From Baimashan, Atuntze, at 3,200 m. altitude.

130436. LYONIA sp.

No. 13884. From Tehgoh, Chungtien, at 3,300 m. altitude.

130437. LYONIA sp.

No. 14702. From Wati, Muli, at 2,900 m. altitude.

130438. LYONIA sp.

No. 15045. From the Likiang Snow Range at 3,000 m. altitude.

130439. LYONIA sp.

No. 15322. From the Likiang Snow Range at 2,800 m. altitude.

130440. SETARIA sp. Poaceae.

Grass.

From Canada. Seeds presented by Rev. Kenneth H. Prior, Toronto. Received September 8, 1938.

Originally from Angola, Africa. A grass which tolerates considerable shade.

130441. FICUS CARICA L. Moraceae.

Common fig.

From India. Seeds presented by J. G. Burns, Superintendent, Kumaun, Government Gardens, Chaubattia, United Provinces. Received September 12, 1938.

130442. RUBUS COREANUS Miquel. Rosaceae.

Korean raspberry.

From Maryland. Cuttings presented by George M. Darrow, Bureau of Plant Industry, Beltsville. Received July 8, 1938.

A deciduous shrub 8 to 10 feet high, native to China and Chosen, with erect or arching, stout biennial stems. The pinnate leaves, 6 to 10 inches long, are usually composed of 7 ovate, dark, lustrous green, coarsely toothed leaflets. The fruit, varying in color from red to nearly black, is edible but small and of poor flavor.

For previous introduction see 113814.

- 130443. SALVIA HISPANICA L. Menthaceae. Sage.**
 From Mexico. Seeds presented by W. T. Swingle, Bureau of Plant Industry, United States Department of Agriculture. Received September 22, 1938.
Chia. For previous introduction see 47126.
- 130444 and 130445. CORTADERIA spp. Poaceae. Grass.**
 From South America. Plants collected by E. W. Brandes, Bureau of Plant Industry, United States Department of Agriculture. Received September 20, 1938.
- 130444. CORTADERIA sp.**
 From Ipiales, Colombia.
- 130445. CORTADERIA BIFIDA Pilger.**
 From Tulcan, Ecuador. A grass with stems mostly 3 feet high, or taller, and loose panicles 4 to 8 inches long. Native to rocky or partially wooded slopes from Ecuador to Bolivia.
- 130446. ANANAS COMOSUS (L.) Merr. Bromeliaceae. Pineapple.**
 From Guatemala. Offshoots collected by J. L. Collins, Canal Zone Experiment Gardens, Summit, Canal Zone. Received September 23, 1938.
 From near Antigua, at 5,100 feet altitude. A cultivated variety growing in a yard.
- 130447 to 130449. POA PRATENSIS L. Poaceae. Kentucky bluegrass.**
 From Canada. Seeds presented by Dr. O. McConkey, Ontario Agricultural College, Guelph. Received September 26, 1938.
- 130447. O. A. C. No. 1.**
- 130448. O. A. C. No. 2.**
- 130449. Weibull No. 5720.**
- 130450. CUCURBITA MOSCHATA Duchesne. Cucurbitaceae. Cushaw.**
 From Florida. Seeds presented by Wyndham Hayward, Winter Park. Received September 22, 1938.
Indian Pumpkin. A rank-growing, very productive vine whose fruits make excellent pies.
- 130451. PUYA ALPESTRIS (Poepp. and Endl.) Gay. Bromeliaceae.**
 From England. Plants purchased from Clarence Elliott, Ltd., Six Hills Nursery, Stevenage, Herts. Received September 28, 1938.
 A herbaceous perennial with leaves like a yucca and a flower stalk 3 to 4 feet high, bearing a much-branched panicle of large showy metallic-blue flowers. Native to Chile.
 For previous introduction see 76485.
- 130452. BOUGAINVILLEA. Nyctaginaceae.**
 From Cuba. Seeds collected at the Atkins Institution of the Arnold Arboretum, Soledad, Cienfuegos, by T. R. Fennell, Bureau of Plant Industry, United States Department of Agriculture. Received May 5, 1930. Numbered in September 1938.
Jasper. A seedling variety of uncertain parentage. The immature bracts are pomegranate purple to spinel red (Ridgway), becoming near jasper red with maturity, similar in these respects to *Bougainvillea spectabilis* var. *lateritia*, which is thought probably to be one of the parents. This new variety is superior to the latter, however, in being more compact in growth and freer flowering.
- 130453 to 130463. SOLANUM. Solanaceae.**
 From the Dutch East Indies. Tubers presented by A. M. Cramer, Sr., Wonosobo, Java. Received September 28, 1938.
 A collection of Russian hybrid potatoes.
- 130453. *Solanum demissum* × *Ailbeka* × *Ailbeka*-6506-172-18.**

130453 to 130463—Continued

130454. *Solanum demissum* × *Ailbeka* × *Ailbeka*—6506—172—47.
 130455. *Solanum demissum* × *Helka* × *Ailbektar*—6506—172—41.
 130456. *Solanum demissum* × *Stebika* × *Stebika*—6506—172—91.
 130457. *Solanum demissum* × *Alma* × *Ka(d) margum*—6506—173—15.
 130458. *Solanum demissum* × *Alma* × *Ka(d) margum*—6506—173—17.
 130459. *Solanum demissum* × *Ailbeka* × *Tobello*—6506—175—55.
 130460. *Solanum demissum* × *Ailbeka* × *Tobello*—6506—175—60.
 130461. *Solanum demissum* × *Podhaparni* × *Pooudhaparni*—6516—181—61.
 130462. *Solanum antipoviczii* × *Chupadninc F. 2.* No. 22—44—210—25—86.
 130463. *Potladedruc* × *Solanum andigenum* f. *tocanum*—7113—7—6589—58.

130464 and 130465. FICUS CARICA L. Moraceae. Common fig.

From Texas. Cuttings presented by R. H. Stansel, Texas Agricultural Experiment Sub-Station 3, Angleton. Received March 9, 1934. Numbered in September 1938.

130464. *Allison*.

130465. *Brown Turkey "E."*

130466. DIOSPYROS SINENSIS Hemsl. Diospyraceae. Persimmon.

From Washington, D. C. Plants growing in the Department of Agriculture greenhouse, under the direction of the Division of Fruit and Vegetable Crops and Diseases, Bureau of Plant Industry. Numbered in September 1938.

C. P. B. No. 10526.

130467 to 130545.

From China. Seeds collected by T. T. Yu, with the Yunnan Expedition of the Fan Memorial Institute of Biology, Peiping, and presented through the Arnold Arboretum, Jamaica Plain, Mass. Received September 29, 1938.

130467 to 130470. *ACANTHOPANAX* spp. Araliaceae.

130467. *ACANTHOPANAX* sp.

No. 7852. From Dokerla, Atuntze, at 3,100 m. altitude.

130468. *ACANTHOPANAX* sp.

No. 7980. From Hungpoh, Atuntze, at 2,600 m. altitude.

130469. *ACANTHOPANAX* sp.

No. 8426. From Mount Kaakerpu, Atuntze, at 3,200 m. altitude.

130470. *ACANTHOPANAX* sp.

No. 10558. From Mount Miyetzumu, Atuntze, at 3,000 m. altitude.

130471. *ALYSSUM* sp. Brassicaceae.

No. 14270. From Kulu, Muli, at 3,300 m. altitude.

130472. *AMPELOPSIS* sp. Vitaceae.

No. 14044. From Woosi, Muli, at 2,600 m. altitude.

130473. *AMYGDALUS* sp. Amygdalaceae.

No. 14374. From Wachin, Muli, at 3,100 m. altitude.

130474. *ANDROMEDA* sp. Ericaceae.

No. 4998. From Hungpoh, Atuntze, at 3,700 m. altitude.

130475. *ARALIA* sp. Araliaceae.

No. 14162. From Muli at 2,650 m. altitude.

130467 to 130545—Continued

130476. *ARCTIUM* sp. Asteraceae.

No. 13945. From Pica, Chungtien, at 3,100 m. altitude.

130477. *ARISAEMA* sp. Araceae.

No. 13565. From Haba, Chungtien, at 3,100 m. altitude.

130478. *ASCLEPIAS* sp. Asclepiadaceae.

No. 13669. From Tuatze, Chungtien, at 3,400 m. altitude.

130479. *BERGENIA* sp. Saxifragaceae.

No. 13518. From Haba, Chungtien, at 3,500 m. altitude.

130480. *BETULA UTILIS* D. Don. Betulaceae.

Birch.

No. 14547. A tree 40 to 60 feet high, with a red-brown trunk and branches and bark which peels off in papery flakes. It is native to subtropical regions of the Himalayas. The oval, coarsely toothed, sharp-pointed leaves, 3 inches long, are dark green above and paler beneath. In winter the orange-chocolate color of the twigs is very striking.

For previous introduction see 128933.

130481. *BRASSAIOPSIS* sp. Araliaceae.

No. 11322. From Chihren, Chungtien, at 2,400 m. altitude.

130482 to 130484. *CAREX* spp. Cyperaceae.

130482. *CAREX* sp.

No. 14624. From Tinchang, Muli, at 4,000 m. altitude.

130483. *CAREX* sp.

No. 14626. From Tinchang, Muli, at 4,000 m. altitude.

130484. *CAREX* sp.

No. 14691. From Wati, Muli, at 3,250 m. altitude.

130485. *CARUM* sp. Apiaceae.

No. 14251. From Kulu, Muli, at 3,400 m. altitude.

130486. *CARUM* sp. Apiaceae.

No. 14579. From Jinchang, Muli, at 3,800 m. altitude.

130487. *CHAEROPHYLLUM* sp. Apiaceae.

No. 13612. From the Chungtien Plateau, at 3,000 m. altitude.

130488. *CHRYSANTHEMUM* sp. Asteraceae.

No. 13917. From Pica, Chungtien, at 3,400 m. altitude.

130489. *CIMICIFUGA* sp. Ranunculaceae.

No. 13480. From Gonzah, Chungtien, at 3,000 m. altitude.

130490. *CLINTONIA* sp. Convallariaceae.

No. 13455. From Tungwalung, Chungtien, at 3,400 m. altitude.

130491. *CORTIA* sp. Apiaceae.

No. 14605. From Tinchang, Muli, at 4,000 m. altitude.

130492. *CORTIA* sp. Apiaceae.

No. 15221. From the Likiang Snow Range at 2,800 m. altitude.

130493. *CYANANTHUS* sp. Campanulaceae.

No. 13733. From Shianrentung, Chungtien, at 3,600 m. altitude.

130494. *DICRANOSTIGMA* sp. Papaveraceae.

No. 13545. From Haba, Chungtien, at 3,500 m. altitude.

130467 to 130545—Continued

130495 to 130497. *ELSHOLTZIA* spp. Menthaceae.

130495. *ELSHOLTZIA* sp.

No. 14712. From Buraton, Muli, at 2,900 m. altitude.

130496. *ELSHOLTZIA* sp.

No. 14789. From Longi, Muli, at 2,800 m. altitude.

130497. *ELSHOLTZIA* sp.

No. 14960. From Haba, Chungtien, at 2,500 m. altitude.

130498. *EUPATORIUM JAPONICUM* Thunb. Asteraceae.

No. 1206. From Atuntze, at 2,850 m. altitude. A tall herbaceous perennial, with lower leaves deeply 3-parted, simple upper leaves, and clusters of dull, purplish to greenish-white flower heads. Native to Japan.

130499. *FERULA* sp. Apiaceae.

No. 7889. From Dokerla, Atuntze, at 3,500 m. altitude.

130500. *FILIPENDULA* sp. Rosaceae.

No. 13964. From Chingkon, Chungtien, at 3,000 m. altitude.

130501. *FRAGARIA* sp. Rosaceae.

No. 13909. From Pica, Chungtien, at 3,200 m. altitude.

130502. *GENTIANA* sp. Gentianaceae.

No. 10753. From Baimashan, Atuntze, at 4,100 m. altitude.

130503. *GENTIANA* sp. Gentianaceae.

No. 14787. From Longi, Muli, at 2,800 m. altitude.

130504. *HEDYCHIUM* sp. Zingiberaceae.

No. 10920. From Lomahua, Chungtien, at 2,200 m. altitude.

130505. *HYOSCYAMUS NIGER* L. Solanaceae.

Henbane.

No. 13684. From the Chungtien Plateau, at 3,100 m. altitude.

For previous introduction see 113170.

130506. *IPOMOEA* sp. Convolvulaceae.

No. 14809. From Wutzupuh, Muli, at 2,800 m. altitude.

130507. *LACTUCA* sp. Cichoriaceae.

Lettuce.

No. 10588. From southwest of Atuntze, at 3,200 m. altitude.

130508. *LYCHNIS* sp. Silenaceae.

No. 13753. From Shianrentung, Chungtien, at 3,600 m. altitude.

130509. *LYCIUM* sp. Solanaceae.

No. 13692. From the Chungtien Plateau at 3,100 m. altitude.

130510. *MARSDENIA* sp. Asclepiadaceae.

No. 14851. From Guhtzun, Muli, at 2,500 m. altitude.

130511 to 130513. *PASTINACA* spp. Apiaceae.

130511. *PASTINACA* sp.

No. 10981. From Lichiashica, Chungtien, at 3,600 m. altitude.

130512. *PASTINACA* sp.

No. 13483. From the Chungtien Plateau, at 3,000 m. altitude.

130513. *PASTINACA* sp.

No. 14153. From Muli at 3,000 m. altitude.

130467 to 130545—Continued

130514. *PITTIOSPORUM* sp. Pittosporaceae.
No. 14825. From Guhtzun, Muli, at 3,100 m. altitude.
130515. *PLECTRANTHUS* sp. Menthaceae.
No. 14545. From Sigenii, Muli, at 3,300 m. altitude.
130516. *PLEUOSPERMUM* sp. Apiaceae.
No. 13714. From Shianrentung, Chungtien, at 3,500 m. altitude.
130517. *POGOSTEMON* sp. Menthaceae.
No. 10927. From Lomahua, Chungtien, at 2,400 m. altitude.
130518. *POLYGONATUM* sp. Convallariaceae.
No. 10458. From Mount Kaakerpu, Atuntze, at 2,600 m. altitude.
130519. *POLYGONUM* sp. Polygonaceae.
No. 10593. From southwest of Atuntze at 3,200 m. altitude.
130520. *PRUNELLA VULGARIS* L. Menthaceae.
No. 14242. From Kulu, Muli, at 3,400 m. altitude.
- 130521 to 130523. *SALVIA* spp. Menthaceae.
130521. *SALVIA* sp.
No. 14221. From Kulu, Muli, at 3,400 m. altitude.
130522. *SALVIA* sp.
No. 15450. From the Likang Snow Range at 2,800 m. altitude.
130523. *SALVIA* sp.
No. 14533. From Sigenii, Muli, at 3,300 m. altitude.
130524. *PLECTRANTHUS SCULPONEATUS* Vaniot. Menthaceae.
No. 14706. From Buraton, Muli, at 2,900 m. altitude.
130525. *SANICULA* sp. Apiaceae.
No. 10208. From Atuntze at 2,850 m. altitude.
130526. *SANICULA* sp. Apiaceae.
No. 10306. From Kaakerpu, Atuntze, at 2,600 m. altitude.
- 130527 to 130529. *SELINUM* spp. Apiaceae.
130527. *SELINUM* sp.
No. 13721. From Shianrentung, Chungtien, at 3,600 m. altitude.
130528. *SELINUM* sp.
No. 14232. From Kulu, Muli, at 3,500 m. altitude.
130529. *SELINUM* sp.
No. 15478. From the Likang Snow Range at 3,000 m. altitude.
130530. *SESELI* sp. Apiaceae.
No. 13865. From Chiren, Chungtien, at 3,100 m. altitude.
130531. *SILENE VISCIDULA* Franch. Silenaceae.
No. 14291. From Kulu, Muli, at 3,200 m. altitude.
130532. *SWERTIA* sp. Gentianaceae.
No. 13514. From Haba, Chungtien, at 3,500 m. altitude.
130533. *SWERTIA* sp. Gentianaceae.
No. 15391. From the Likang Snow Range at 2,900 m. altitude.

130467 to 130545—Continued

130534. TAGETES ERECTA L. Asteraceae. **Aztec marigold.**

No. 14818. From Guhtzun, Muli, at 3,000 m. altitude.

For previous introduction see 24085.

130535. TEPHROSIA sp. Fabaceae.

No. 10520. From Mount Kaakerpu, Atuntze, at 3,000 m. altitude.

130536. THLADIANTHA DUBIA Bunge. Cucurbitaceae.

No. 14152. From Muli at 2,500 m. altitude. A tuberous-rooted climber with pale-green, heart-shaped leaves and numerous campanulate yellow flowers. Native to northern China.

For previous introduction see 110502.

130537 to 130539. TROLLIUS spp. Ranunculaceae.

130537. TROLLIUS sp.

No. 13826. From Tehgoh, Chungtien, at 3,300 m. altitude.

130538. TROLLIUS sp.

No. 14235. From Kulu, Muli, at 3,500 m. altitude.

130539. TROLLIUS sp.

No. 14748. From Deongomba, Muli, at 3,200 m. altitude.

130540 to 130544. VERBASCUM THAPSUS L. Scrophulariaceae. **Common mullein.**

130540. No. 7953. From Dokerla, Atuntze, at 2,700 m. altitude.

130541. No. 10517. From Mount Kaakerpu, Atuntze, at 3,000 m. altitude.

130542. No. 14417. From Wachin, Muli, at 3,100 m. altitude.

130543. No. 14940. From Haba, Chungtien, at 2,600 m. altitude.

130544. No. 15228. From the Likiang Snow Range at 2,800 m. altitude.

130545. VITIS sp. Vitaceae.

No. 14094. From Woosi, Muli, at 2,500 m. altitude.

130546 to 130552.

From Uruguay. Seeds presented by J. A. Scasso, Director of Public Parks, Montevideo. Received September 27, 1938.

130546. BERBERIS LAURINA Thunb. Berberidaceae. **Barberry.**

A barberry with leathery, entire, ovate-elliptic leaves, mostly over 2 inches long, and dense lax racemes of yellow flowers, followed by small black fruits. Native to southern Brazil.

130547. CLEMATIS HILARII Spreng. Ranunculaceae.

A tropical climbing shrub with ternate or nearly ternate leaves 2 to 4 inches wide and fragrant, blue-white flowers. It is native to southeastern Brazil.

For previous introduction see 102736.

130548. HIPPEASTRUM BIFIDUM (Herbert) Baker. Amaryllidaceae.

A hippeastrum with 2 or 3 linear leaves 1 foot long, appearing after the flowers, and 3 to 6 bright-red, erect or nearly erect flowers about 2 inches long in an umbel. Native to Argentina.

130549. VERBENA LACINIATA (L.) Briq. Verbenaceae.

A prostrate herb with purple flowers.

For previous introduction see 119916.

130546 to 130552—Continued

130550. VERBENA VENOSA Gill. and Hook. Verbenaceae.

A tuberous rooted, herbaceous perennial with simple or branching stems up to 3 feet high, sharply toothed oblong leaves 2 to 3 inches long, and dense spikes of purplish-pink flowers. Native to Argentina.

130551. HABRANTHUS ANDERSONI Herbert. Amaryllidaceae.

A bulbous perennial, native to Argentina, with narrowly linear, pale-green leaves 6 inches long and a scape as long as the leaves, bearing a lilylike flower 1 inch long, bright yellow inside and coppery red outside.

For previous introduction see 92501.

130552. ZEPHYRANTHES MESOCHLOA Herbert. Amaryllidaceae.

A zephyrilly with about 8 narrow linear leaves and a scape 4 to 9 inches long, with a flower, greenish on the lower half and white or slightly reddish, rarely yellowish above.

Native to Argentina.

130553. GOSSYPIUM. Malvaceae.

Cotton.

From Egypt. Seeds presented by the Société Royale d'Agriculture, Cairo. Received September 30, 1938.

Maarad cotton, strain 368 (selfed seeds).

130554 to 130556.

From Africa. Seeds presented by the Department of Agriculture, Nairobi, Kenya Colony. Received September 19, 1938.

130554 and 130555. SORGHUM VULGARE Pers. Poaceae.

Sorghum.

130554. *Dobbs*.

130555. *Kano*.

130556. ZEA MAYS L. Poaceae.

Corn.

130557 to 130564.

From Mexico. Seeds collected in Baja California by and purchased from Howard E. Gates, Anaheim, Calif. Received September 29, 1938.

130557. ECHINOCACTUS LATISPINUS (Haw.) Hemsl. (*Ferocactus latispinus* Britt. and Rose). Cactaceae. Cactus.

A simple globular or depressed cactus about 1 foot high, with numerous prominent ribs, large areoles, 6 to 10 slender, annulate, white to rose radical spines 1 inch long, and 4 or more stouter and more highly colored central spines. The campanulate flowers, varying in color from white to rose, are 1 inch long. Native to Mexico.

130558. ECHINOCACTUS ACANTHODES Lem. (*Ferocactus acanthodes* Britt. and Rose). Cactaceae. Cactus.

A tall, very spiny, cylindrical cactus, globular at first, sometimes 10 feet high, with numerous acute ribs; it has large, closely set areoles and white, purplish, or bright-red spines, the central ones subulate, spreading, the radical spines usually pungent. The yellow to orange campanulate flowers are about 2 inches long and usually broader than long. Native to southeastern California, northern Baja California, and southern Nevada.

130559. ECHINOCACTUS PENINSULAE Weber (*Ferocactus peninsulae* Britt. and Rose). Cactaceae. Cactus.

A simple erect plant becoming cylindrical in age and attaining a height of 8 feet, which is unusual for the genus. The ribs number 12 to 20 and are close set with areoles bearing 11 radical and 4 central spines. The red spines, with yellow tips, make this a very colorful plant. Native to Baja California.

130557 to 130564—Continued

130560. ECHINOCACTUS RECTISPINUS (Engelm.) Britt. and Rose (*Ferocactus rectispinus* Britt. and Rose). Cactaceae. Cactus.

A spiny, globose to cylindrical cactus, 3 to 6 feet high, with stout straight or curved spines up to 5 inches long and yellowish flowers about 3 inches long. Native to Baja California.

130561. ECHINOCACTUS VIRIDESCENS Torr. and Gray (*Ferocactus viridescens* (Torr. and Gray) Britt. and Rose). Cactaceae. Cactus.

A deep-green, somewhat glossy cactus, nearly globose when young, becoming cylindrical in age, with a diameter of 10 to 15 inches. It has 13 to 30 rounded and undulate ribs. The areoles have 9 to 20 radial spines and 4 central spines, of which the lowest one is stoutest and flattest. The spines are bright red at first, but later become yellowish or horn-colored. The flowers are yellowish green. Native to Baja California.

130562. ECHINOCACTUS sp. Cactaceae. Cactus.

130563. FOUQUIERIA SPLENDENS Engelm. Fouquieriaceae.

An American desert plant which produces graceful clumps of thorny, arching stems up to 15 feet high. Each stem is terminated in the spring by one or more racemes of scarlet flowers. The stems throughout their length are clothed with leaves on short spurs. In extreme droughts the leaves are shed, but are replaced after each rain.

130564. FOUQUIERIA sp. Fouquieriaceae.

130565 to 130568. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.

From Africa. Tubers presented by the Department of Agriculture, Nairobi, Kenya Colony. Received September 19, 1938.

130565. *Kiganda*. 130567. *Muburi*.

130566. *Rumora*. 130568. *Nduhia*.

130569 to 130579.

From China. Seeds collected by T. T. Yu, with the Yunnan Expedition of the Fan Memorial Institute of Biology, Peiping, and presented by Mrs. J. Norman Henry. Received September 13, 1938.

130569. ANEMONE sp. Ranunculaceae.

No. 10999.

130570. ANEMONE sp. Ranunculaceae.

No. 15055.

130571. ASTER sp. Asteraceae.

No. 13670.

130572. IRIS sp. Iridaceae.

No. 13259.

130573 to 130577. POLYGONUM spp. Polygonaceae.

130573. POLYGONUM sp.

No. 7915.

130574. POLYGONUM sp.

No. 10733.

130575. POLYGONUM AUBERTI L. Henry.

No. 14121.

130576. POLYGONUM CYMOSUM Trevir. (*Fagopyrum cymosum* Meissn.).

No. 14478. A tall branching herbaceous perennial with large leaves, used in India as greens. Native to the temperate Himalayan region.

130569 to 130579—Continued

130577. POLYGONUM sp.

No. 14965.

130578. SENECIO sp. Asteraceae.

No. 10989.

130579. SENECIO sp. Asteraceae.

No. 13547.

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officinalis, 130416.
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Viburnum spp., 130419-130429.
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Zea mays, 129754-129767, 129858-
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