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2 *Plant Inventory No. 166*

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D.C., June 1966

PLANT MATERIAL INTRODUCED JANUARY 1 TO DECEMBER 31, 1958 (NOS. 244733 TO 254694)

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This inventory, No. 166, lists the plant material (Nos. 244733 to 254694) received by the New Crops Research Branch, Crops Research Division, Agricultural Research Service, during the period January 1 to December 31, 1958. The inventory is a historical record of plant material introduced for Department and other specialists and is not to be considered as a list of plant material for distribution.

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Botanists.

Plant Industry Station,
Beltsville, Md.

U. S. DEPT. OF AGRICULTURE
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JUL 29 1966

CURRENT SERIAL RECORDS

[1] Resigned from United States Department of Agriculture September 1964.

INVENTORY

244733 to 244751. COFFEA RACEMOSA Lour. Rubiaceae. **Coffee.**

From Portugal. Seeds presented by the Estacao Agronomica Nacional, Oeiras. Received January 2, 1958.

244733. C.I.F.C. 840 (P.F.M. 10).

244734. C.I.F.C. 841 (P.F.M. 11).

244735. C.I.F.C. 842 (P.F.M. 12).

244736. C.I.F.C. 843 (P.F.M. 13).

244737. C.I.F.C. 844 (P.F.M. 14).

244738. C.I.F.C. 846 (P.F.M. 16).

244739. C.I.F.C. 847 (D.M. 10).

244740. C.I.F.C. 848 (D.M. 11).

244741. C.I.F.C. 852 (P.F.M. 19).

244742. C.I.F.C. 853 (P.F.M. 20).

244743. C.I.F.C. 854 (P.F.M. 21).

244744. C.I.F.C. 854 (P.F.M. 35).

244745. C.I.F.C. 855 (P.F.M. 22).

244746. C.I.F.C. 856 (P.F.M. 23).

244747. C.I.F.C. 859 (P.F.M. 1).

244748. C.I.F.C. 861 (P.F.M. 3).

244749. C.I.F.C. 863 (P.F.M. 5).

244750. C.I.F.C. 875 (D.M. 13). Leaves large.

244751. C.I.F.C. —— (P.F.M. 2).

244752. THOTTEA GRANDIFLORA Rottb. Aristolochiaceae.

From Singapore. Seeds presented by the Singapore Botanical Gardens, Singapore. Received January 3, 1958.

244753 and 244754. NICOTIANA TABACUM L. Solanaceae. **Common tobacco.**

From Greece. Seeds presented by the United States Operations Mission, Athens. Received January 3, 1958.

244753. 'Basma'.

244754. 'Smyrna'.

244755. STIZOLOBIUM sp. Fabaceae.

From Thailand. Seeds presented by the United States Operations Mission, Bangkok. Received January 3, 1958.

244756. LATHYRUS SATIVUS L. Fabaceae. **Grass peavine.**

From Ethiopia. Seeds presented by the Missouri Botanical Garden, St. Louis, Missouri. Received January 3, 1958.

244757 to 244829. HORDEUM sp. Poaceae.

From Japan. Seeds presented by the Laboratory of Genetics, College of Agriculture, Kyoto University, Kyoto. Received January 8, 1958.

244757. No. 5001.
244758. No. 5002.
244759. No. 5003.
244760. No. 5004.
244761. No. 5005.
244762. No. 5006.
244763. No. 5007.
244764. No. 5008.
244765. No. 5009.
244766. No. 5010.
244767. No. 5011.
244768. No. 5012.
244769. No. 5013.
244770. No. 5014.
244771. No. 5015.
244772. No. 5016.
244773. No. 5017.
244774. No. 5018.
244775. No. 5019.
244776. No. 5020.
244777. No. 5021.
244778. No. 5022.
244779. No. 5023.
244780. No. 5024.
244781. No. 5025.
244782. No. 5026.
244783. No. 5027.
244784. No. 5028.
244785. No. 5029.
244786. No. 5030.
244787. No. 5031.
244788. No. 5032.
244789. No. 5033.
244790. No. 5034.
244791. No. 5035.
244792. No. 5036.
244793. No. 5037.
244794. No. 5038.
244795. No. 5039.
244796. No. 5040.
244797. No. 5041.
244798. No. 5042.
244799. No. 5043.
244800. No. 5044.
244801. No. 5045.
244802. No. 5046.
244803. No. 5047.
244804. No. 5048.
244805. No. 5049.
244806. No. 5050.
244807. No. 5051.
244808. No. 5052.
244809. No. 5053.
244810. No. 5054.
244811. No. 5055.
244812. No. 5056.
244813. No. 5057.
244814. No. 5058.
244815. No. 5059.
244816. No. 5060.
244817. No. 5061.
244818. No. 5062.
244819. No. 5063.
244820. No. 5064.
244821. No. 5065.
244822. No. 5066.
244823. No. 5068.
244824. No. 5069.
244825. No. 5070.
244826. No. 5071.
244827. No. 5072.
244828. No. 5073.
244829. No. 5075.

244830 to 244843.

From Great Britain. Seeds presented by the British Embassy, Washington, D.C. Received January 6, 1958.

244830 to 244838. BRASSICA OLERACEA var. BOTRYTIS L. Brassicaceae.
Broccoli.

244830. 'Alpha'. Early type.

244831. 'Harrison's Q.C.' Early type.

244832. 'Majestic'. Autumn type.

244833. 'Orion'. Autumn type.

244834. 'Primus'. Autumn type.

244835. Six weeks. Early type.

244836. 'Suttons Harbinger'. Early type.

244837. 'Suttons Improved Snowball'. Early type.

244838. 'Trenfields Snow Queen'. Early type.

244839 to 244843. BRASSICA OLERACEA var. GEMMIFERA DC. **Brussel sprouts.**

244839. 'Blythe'.

244840. 'Cambridge Special'. A heavy-yielding dwarf type; sprouts small, very solid. Used for quick freezing.

244841. 'Cambridge No. 1'. Early, large sprouts, somewhat loose, pale.

244842. 'Cambridge No. 3'. Midseason, sprouts rather large, quality better than 'Cambridge No. 1'.

244843. 'Cambridge No. 5'. Late variety, sprouts medium size.

244844. ROSA (hybrid). Rosaceae. **Rose.**

From Great Britain. Plants presented by Fryers Nurseries Ltd., Knutsford, Cheshire, England. Received January 6, 1958.

'Ballerina'.

244845. CALLIANDRA BREVIPES Benth. Mimosaceae.

From Brazil. Seeds presented by the Jardin Botanico, Rio de Janeiro. Received January 7, 1958.

244846 to 244850.

From Israel. Seeds presented by the Ministry of Agriculture, Department of Horticulture, Tel Aviv. Received January 7, 1958.

244846. CITRUS AURANTIFOLIA (Christm.) Swingle Rutaceae. **Lime.**

244847. CITRUS SINENSIS (L.) Osbeck **Sweet orange.**

'Shamouti'.

244848 to 244850. PRUNUS AMYGDALUS Batsch. Amygdalaceae. **Almond.**

244848. From Juden Hills.

244849. From Safed Hills.

244850. From Sileh Hills.

244851 and 244852. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Brazil. Seeds presented by the Instituto Agronomico do Sul, Pelotas. Received January 7, 1958.

244851. IAS 8.

244852. IAS 13.

244853 to 244858. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Yugoslavia. Seeds presented by the Brookhaven National Laboratory, Upton, Long Island, New York. Received January 8, 1958.

244853. 'Generosa'.

244854. 'Mara'.

244855. 'Produttore'. S–6.

244856. R–16.

244857. R–37.

244858. 'Vivenza'.

244859 to 244868. HIBISCUS CANNABINUS L. Malvaceae. **Kenaf.**

From Cuba. Seeds presented by the Estacion Experimental Agronomica, Santiago de Las Vegas. Received January 8, 1958.

244859. 'Cuba 108'.

244860. 'Cuba 195'.

244861. 322–a, b, c, d, e, f.

244862. 689–n–2.

244863. 1127b.

244864. 2032e.

244865. 2040b.

244866. 2049a.

244867. 3017e.

244868. 'Tingo Maria'.

244869 to 244882.

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received January 8, 1958.

Localities given are former sources.

244869. SORGHUM ALMUM Parodi Poaceae.

No. E.C. 1822. Australia.

244870. SORGHUM DOCHNA (Forsk.) Snowden

No. E.C. 7750. Yugoslavia.

244871 and 244872. SORGHUM HALEPENSE (L.) Pers. **Johnsongrass.**

244871. No. I.W. 396. Coimbatore, India.

244872. No. I.W. 1144A. Palanpur, India.

244873 and 244874. SORGHUM NITIDUM (Vahl) Pers.

244873. No. I.W. 1144. Palanpur.

244874. No. I.W. 3653. Palanpur.

244875 to 244878. SORGHUM SUDANENSE (Piper) Stapf **Sudangrass.**

244875. No. E.C. 1825. Australia.

244876. No. E.C. 7306. Southern Rhodesia.

244877. No. E.C. 7653. Australia.

244878. No. E.C. 7654. Australia.

244879. SORGHUM sp.

No. E.C. 7087. Australia.

244880. SORGHUM sp.

No. E.C. 7088. Canberra, Australia.

244881. SORGHUM sp.

No. E.C. 7089. Australia.

244882. SORGHUM sp.

No. S.E.S. 101. Coimbatore, India.

244883 and 244884. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

From Costa Rica. Seeds presented by the Inter-American Institute of Agriculture, Turrialba. Received January 9, 1958.

244883. 'Medio Cuerro'.

244884. 'Villasarchi'.

244885 to 244911.

From Autralia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra City. Received Jan. 9, 1958.

244885. ALLOTEROPSIS SEMIALATA (R. Br.) Hitchc. Poaceae. **Cockatoograss.**

244886. BRACHIARIA MUTICA (Forsk.) Stapf Poaceae.

244887. ERIOCHLOA CREBRA S. T. Blake Poaceae. **Cupgrass.**

244888. ERIOCHLOA PSEUDOACROTRICHA (Stapf ex Thell.) C. E. Hubb. **Cupgrass.**

244889. PANICUM ANTIDOTALE Retz. Poaceae. **Blue panicgrass.**

244890. PANICUM CAPILLIPES Benth.

244891. PANICUM CYMBIFORME Hughes

244892. PANCIUM DECOMPOSITUM R. Br.

244893. PANICUM DELICATUM Hughes

244894. PANICUM FULGIDUM (R. Br.) Hughes

244895. PANICUM LARCOMIANUM Hughes

244896. PANICUM MAXIMUM Jacq. **Guineagrass.**

244897. PANICUM QUEENSLANDICUM Domin

244898. PANICUM SEMINUDUM Domin

244899. PANICUM TRACHYRACHIS Benth.

244900. PANICUM WHITEI Black

244901. PASPALIDIUM CAESPITOSUM C. E. Hubb. Poaceae.

244902. PASPALUM DILATATUM Poir. Poaceae. **Dallisgrass.**

244903. PASPALIDIUM GLOBOIDEUM (Domin) Hughes Poaceae.

244904. PASPALUM ORBICULARE G. Forst. Poaceae.

244905. PENNISETUM BASEDOWII Summerh. & Hubb. Poaceae.

244906. CENCHRUS CILIARIS L. **Buffelgrass.**

244907. PENNISETUM VILLOSUM R. Br. **Feathertop.**

244908. SACCIOLEPIS INDICA (L.) Chase Poaceae.

244909. SACCIOLEPIS MYOSUROIDES (R. Br.) Chase

244910. UROCHLOA BOLBODES (Steud.) Stapf Poaceae.

244911. UROCHLOA PULLULANS Stapf

244912 to 244932.

From Great Britain. Plants purchased from Hillier & Sons, Winchester, England. Received Jan. 9, 1958.

244912. ABIES CONCOLOR (Gord.) Hoopes Pinaceae. **White fir.**
'Compacta'.

244913. ABIES FABRI (Mast.) Craib. **Fir.**

244914. CEDRUS LIBANII A. Rich. Pinaceae. **Cedar of Lebanon.**
'Nana'.

244915. CEDRUS BREVIFOLIA (Hook. f.) Henry **Cyprian cedar.**

244916. PICEA ABIES (L.) Karst. Pinaceae. **Norway spruce.**
'Humilis'.

244917. PICEA BRACHYTYLA (French.) Pritzel **Spruce.**
'Latisquamea'.

244918. PICEA PURPUREA Mast.

244918. PICEA PURPUREA Mast. **Spruce.**

244919. PICEA MAXIMOWICZII Mast. **Spruce.**

244920. PICEA OBOVATA Ledeb. **Siberian spruce.**

244921. PICEA OMORIKA (Pancic) Mast. **Serbian spruce.**

'Pendula.'

244922. PICEA ORIENTALIS (L.) Link **Oriental spruce.**

244923. PICEA PUNGENS Engelm. **Colorado spruce.**

'Speckii'.

244924. PINUS sp. Pinaceae.

244925. PINUS sp.

244926. PINUS CEMBRA L. **Swiss stone pine.**

'Cholorocarpa'.

244927. PINUS PUMILA Regel **Japanese stone pine.**

244928 and 244929. PINUS SYLVESTRIS L. **Scotch pine.**

244928. 'Argentea'.

244929. 'Beauvronensis'.

244930. PINUS sp.

244931 and 244932. PSEUDOTSUGA MENZIESII (Mirb.) Franco Pinaceae. **Douglas-fir.**

244931. 'Brevifolia'.

244932. 'Glauca Fletcheri'.

244933 to 244937. SACCHARUM (hybrids). Poaceae. Sugarcane.

From China. Cuttings presented by the Taiwan Sugar Experiment Station, Tainan, Taiwan. Received January 10, 1958.

244933. F. 137.

244934. F. 138.

244935. F. 139.

244936. F. 140.

244937. P.T. 48–40.

244938 and 244939. SCHIZOSTYLIS (hybrids). Iridaceae.

From Great Britain. Plants presented by P. M. Vandertang, l'Islet, Guernsey, England. Received Jan. 13, 1958.

244938. 'Lady Byng'.

244939. 'Mrs. Hegarty'.

244940. LEUCAENA sp. Mimosaceae.

From the United States. Seed presented by the Southwestern Arboretum, Superior, Arizona. Received January 13, 1958.

A seedling selected for its unusual rapid growth.

244941 to 244955.

From the United States. Cuttings collected in Louisiana by J. L. Creech, agricultural explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received January 13, 1958.

244941 and 244942. CUPHEA HYSSOPIFOLIA H.B.K. Lythraceae.

244941. Col. No. 815. Southwestern Louisiana Institute. Plant small, evergreen; leaves linear, whorled; flowers white.

244942. Col. No. 816. Southwestern Louisiana Institute. Plant small, evergreen; leaves linear, whorled; flowers white.

244943 to 244955. E. A. McIlhenny Estate, Avery Island.

244943 and 244944. EURYA JAPONICA Thunb. Theaceae.

244943. Col. No. 801. Leaves dark green, ovate-lanceolate; good habit.

244944. Col. No. 802. Evergreen shrub to 6 feet high; form good; leaves large.

244945. EURYA NITIDA Korth.

Col. No. 806. Unusual shrub; leaves evergreen, narrow, lanceolate.

244946 to 244952. ILEX CORNUTA Lindl. & Paxt. Aquifoliaceae. **Chinese holly.**

244946. Col. No. 808. Female section.

244947. Col. No. 809. Female section.

244948. Col. No. 810. Dark green foliage type with translucent margin.

244949. Col. No. 811. Female.

244950. Col. No. 812. Yellow fruited form.

244951. Col. No. 813. Female; leaves, one-spined; margin translucent.

244952. Col. No. 814. Female; leaf narrow.

244953. ILEX OPACA Ait. **American holly.**

Col. No. 807. Tree to 15 feet high; leaves with occasional spines; fruits red, 2 to 3 per cluster on current wood.

244954. PITTOSPORUM GLABRATUM Lindl. Pittosporaceae.

Col. No. 804. Evergreen tree to 10 feet high; leaves twisted.

244955. CLEYERA JAPONICA Thunb. Theaceae.

Col. No. 803. Evergreen shrub to 4 feet high; leaves alternate; twig tips and petioles reddish; fruit black.

244956 and 244957. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

From Guatemala. Seeds presented by the Servicio Cooperative Inter-Americano de Agricultura, Guatemala City. Received January 13, 1958.

Selections based upon yield and relative resistance to late blight from material from Turrialba, Costa Rica.

244956. Selec. 5424–11–3–2.

244957. Selec. 5424–11–4–2.

244958 to 244963. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

From Puerto Rico. Seeds presented by the Estacion Experimental Agricola, Castaner. Received January 14, 1958.

Formerly from the Institute of Agronomy, Campinas, Sao Paulo, Brazil.

244958. 'Amarelo Botucatu'.

244959. 'Boubbon Amarelo'.

244960. 'Caturra Amarelo'.

244961. 'Maragogipe A.D.'.

244962. 'Maragogipe Amarelo'.

244963. 'Mundo Novo'.

244964 to 244968.

From Spain. Scions presented by the University of California, Riverside, California. Received January 14, 1958.

Collected at Orihuela near Alicante.

244964. CITRUS NOBILIS Lour. Rutaceae. **King orange.**

'Mandarin'.

244965 to 244968. CITRUS SINENSIS (L.) Osbeck. **Sweet orange.**

244965. 'Blanca Macetera de Orihuela'.

244966. 'Cadenara Sin Hueso de Orihuela'.

244967. 'Saguina Corriente de Orihuela'.

244968. 'Verna de Orihuela'.

244969 to 244973. VOANDZEIA SUBTERRANEA (L.) Thouars. Fabaceae.

From Nyasaland. Seed presented by the Provincial Agricultural Officer, Blantyre. Received December 4, 1957. Numbered in 1958.

244969. Seeds black.

244970. No. 1. Seeds brown.

244971. No. 2. Seeds brown.

244972. Seeds red.

244973. Seeds white.

244974 to 244981.

From the United States. Plant growing at the Plant Introduction Station, Coconut Grove, Florida. Numbered January 15, 1958.

244974. ARDISIA LANCEOLATA Roxb. Myrsinaceae.

Originally from the Singapore Botanic Garden.

244975. COPERNICIA × VESPERTILIONUM Leon Phoenicaceae. **Palm.**

(*C. excelsa* × *C. rigida*). Presented by Dr. B. E. Dahlgren, Chicago Natural History Museum, Chicago, Ill. Collected at Playa de Santa Lucia, Camaguey, Cuba.

244976 and 244977. Originally from Northern Rhodesia.

244976. DICHROSTACHYS GLOMERATA (Forsk.) Chiov. Mimosaceae.

244977. ERYTHROPHLOEUM GUINEENSE Don Caesalpiniaceae.

244978 to 244981. Received from Daniel J. McSwiney, Fort Lauderdale, Fla.

244978. ONCOBA ECHINATA Oliver Flacourtiaceae.

244979. PITCAIRNIA sp. Bromeliaceae.

244980. SPATHIPHYLLUM COCHLEARISPATHUM Engl. Araceae.

244981. TIGRIDIA sp. Iridaceae.

244982 and 244983. (Undetermined.) Poaceae.

From Thailand. Stolons presented by the Department of Agriculture, Bangkok. Received January 15, 1958.

244982. A. 'Ya-kon'. Most prevalent grass in the Bangkok area.

244983. B. 'Ya-Plong-Hiu'.

244984. CITRUS ASSAMENSIS Dutta & Bhatt. Rutaceae.

From India. Seeds presented by the Division of Botany, Indian Agricultural Research Institute, New Delhi. Received January 15, 1958.

I.C. 4763. Grown at Assam.

244985. ACER sp. Aceraceae.

From Great Britain. Seeds presented by George H. Johnstone, Trewithen, Grampound Road, Cornwall, England. Received January 15, 1958.

USS3, K.Y. No. 162. Formerly from China.

244986 to 245001. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae.

Cabbage.

From Great Britain. Seeds presented by the National Vegetable Research Station, Wellesbourne, England. Received January 15, 1958.

244986. 'Amager Norde Munkegaard III'.

Ohlsens Enke, Denmark.

244987. 'Cambridge Red'.

244988. 'Danish Stonehead Nordre Munkegaard III'.

Ohlsens Enke, Denmark.

244989. 'Daurrot Late'.

Ohlsens Enke, Denmark.

24990. 'Early Danish St. 125'.

Ohlsens Enke, Denmark.

244991. 'Holland Export No. 1'.

A. R. Zwaan, Holland.

244992. 'Holland Export No. 2'.

A. R. Zwaan, Holland.

244993. 'Kissendrup'.

Ohlsens Enke, Denmark.

244994. 'Langendijker Autumn'.

A. R. Zwaan, Holland.

244995. 'Langendijker Early Original'.

A. R. Zwaan, Holland.

244996. 'Langendijk Summer'.

Ohlsens Enke, Denmark.

244997. 'Langendijker Winter Extra'.

A. R. Zwaan, Holland.

244998. 'Mammoth Rock Red'.

Ohlsens Enke, Denmark.

244999. 'Meteor'.

A. R. Zwaan, Holland.

245000. 'Niggerhead'.

Koning & Vlieger, Holland.

245001. 'Utrecht'.

A. R. Zwaan, Holland.

245002. MEDICAGO PUBESCENS (Edgw.) Sirji. Fabaceae. **Medic.**

From India. Seed presented by the United States Operations Mission, Nepal. Received January 16, 1958.

Plant to 2½ feet high; basal stem 3/16 inch in diameter; pods straight, to 1 inch long and ⅛ inch wide.

245003 and 245004.

From Mexico. Seeds presented by the Agricultural Attache, United States Embassy, Mexico City. Received January 16, 1958.

245003. DIOSCOREA COMPOSITA Hemsl. Dioscoreaceae. **Yam.**

No. G 16.

245004. DIOSCOREA SPICULIFLORA Hemsl. **Yam.**

No. G 18 and G 20 combined (Syntex).

245005 to 245008.

From Uganda. Seeds presented by the Experiment Station, Soroti. Received January 16, 1958.

245005 and 245006. GLYCINE JAVANICA L. Fabaceae.

245005. 'Kawanda'.

245006. 'Serere'.

245007 and 245008. GLYCINE MAX (L.) Merr. **Soybean.**

245007. H. 49.

245008. "Yellow Keleehe'.

245009 to 245023. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae. **Cabbage.**

From France. Seeds presented by Vilmorin-Andrieux, Paris. Received January 16, 1958.

All Savoy type except where noted.

245009. 'Autumn Glory'.

245010. 'Blood Red Early'. (Erfurt) Dutch type.

245011. 'Curled Oxheart'.

245012. 'Dark Red Niggerhead'. Dutch type.

245013. 'Dwarf Early Green Curled'.

245014. 'Early Round'. (Solid Ulm).

245015. 'Extra Early Midsummer'.

245016. 'Hardy Winter Drumhead'.

245017. 'Iron Head'.

245018. 'Large Aubervilliers'.

245019. 'Large Red Drumhead'. Dutch type.

245020. 'Large Vertus Drumhead'.

245021. Late March. (Vilmorin).

245022. 'Roi de l'Hiver'.

245023. 'Snow Resisting'. (Vilmorin).

245024 to 245047.

From the United States. Plants growing at the United States Plant Introduction Station, Glenn Dale, Md. Numbered January 16, 1958.

Presented by the Missouri Botanic Garden, St. Louis, Mo.

245024. ACER CAPILLIPES Maxim. ex Miquel Aceraceae. **Maple.**

Originally from the Rochester Parks, N.Y. Tree small; bark striped.

245025. ACER CARPINIFOLIUM Sieb. & Zucc. **Hornbeam maple.**

Originally from Yamagata-gun, Hiroshima Prefecture, Japan. 1953.

245026. BUXUS SEMPERVIRENS L. Buxaceae. **Common box.**

'Agram'. Chance seedlings from seed collected near Skoplje in the Vardas River Valley, Yugoslavia; originally from the United States. A fastigiate form.

245027. CARPINUS TURCZANINOVII Hance Betulaceae. **Hornbeam.**

From the Kornik Arboretum, Kornik, Poland. Tree symmetrical, deciduous; excellent autumn coloration.

245028. CORNUS MAS L. Cornaceae. **Cornelian-cherry**

Near Ankara, Turkey, 1953.

245029. CORNUS URBINIANA Rose **Dogwood.**

Original seeds collected near the border of Tamaulipas and Nueva Leon, Mexico, 1948. Elevation 4,500 ft. Tree or shrub, wild specimens to 50 ft. high; leaves ovate-elliptic to 6 inches long, acuminate, glabrate above, pale beneath and sericeous-strigillose; flower heads pedunculate, bracts white and petallike, oblong or narrowly obovate to 2 inches long; fruit red.

245030. COTONEASTER RACEMIFLORA var. NUMMULARIA (Fisch. & Mey.) Dipp. Malaceae.

From Ankara, Turkey, 1954. Fruit blue; may be hardy and desirable in northern United States areas.

245031 and 245032. FAGUS ORIENTALIS Lipsky. Fagaceae. **Beech.**

245031. Belgrad Forest near Istanbul, Turkey, November 20, 1953.

A geographical variant of the western European beech.

245032. From Duzce, Aksu, Turkey. Elevation 300 feet. 1953.

245033. HAMAMELIS (hydrid). Hamamelidaceae.

(*H. virginiana* × *H. vernalis.*) Flowers clear, deep yellow, middle of January.

245034. HAMAMELIS JAPONICA Sieb. & Zucc. **Japanese witch-hazel.**

Original seed from Toyama Prefecture, Japan, 1956. Wild collection of outstanding color and valuable for further selection of cultivars.

245035. HEDERA HELIX L. Araliaceae. **English ivy.**

'Bulgaria arborescens'. From Riga Monastery, Bulgaria.

245036. JUNIPERUS COMMUNIS L. Pinaceae. **Common juniper.**

Originally from the Chelsea Physic Garden, London, England, 1955.

245037. MAGNOLIA SALICIFOLIA (Sieb. & Zucc.) Maxim. Magnoliaceae. **Anise magnolia.**

From Momyidani Park, Yokyama, Iwakuni, Japan, 1954.

245038. NANDINA DOMESTICA Thunb. Berberidaceae.

A yellow-fruited type; comes true from seed.

245039. PALIURUS SPINA-CHRISTI Mill. Rhamnaceae. **Christ-thorn.**

Near Ankara, Turkey, 1953. Shrub about 12 feet high; branches short, spiny; flowers small, yellow, in masses; fruit winged.

245040. PINUS BUNGEANA Zucc. ex Endl. Pinaceae. **Lacebark pine.**

Original seeds collected in Korea. Tree ornamental; bark white with patchwork pattern caused by the peeling off of the old bark.

245041. PINUS HALEPENSIS var BRUTIA Henry **Pine.**

Original seed collected in Transcaucasia, (Azerbaijan, U.S.S.R., 1955. Distributed through the Montreal Botanic Garden, Montreal, Quebec, Canada.

245042. PLATANUS ORIENTALIS L. Platanaceae. **Oriental planetree.**

Seeds collected in Turkey, 1953. A wild form rarely cultivated in the United States.

245043. ROBINIA PSEUDOACACIA L. Fabaceae. **Common locust.**

'Erecta'. Introduced from the nurseries of Vilmorin-Andrieux et Cie, Verrieres, France. Fastigiate form.

245044. SINOWILSONIA HENRYI Hemsl. Hamamelidaceae.

From the Royal Botanic Gardens, Kew, Surrey, England, 1953. Tree to 24 feet high; bracts stellate-pubescent; leaves broad-ovate to elliptic, acute or short-acuminate, subcordate to truncate, to 6 inches long, denticulate, with fascicled hairs on both sides while young, later glabrous or nearly so above, pubescent beneath chiefly on the veins; petiole about 0.4 inches long, densely pubescent; staminate catkins to 2 inches long; pistillate racemes 1 inch, in fruit to 6 inches long; calyx tube yellowish tomentulose, about 0.05 inch long, little longer than ovary, later much elongated; sepal 0.09 inch long, with short, weak beak. Native to China. Originally introduced in 1908. Hardy up to New York.

245045. SORBUS AUCUPARIA L. Malaceae. **European mountain-ash.**

Poznan District, Poland. Grown to select a more desirable form of the species for the eastern part of the United States.

245046. TAXUS BACCATA L. Taxaceae. **English yew.**

Collected near Sofia, Bulgaria, 1934. Tree hardier than most forms from western Europe; branches lateral.

245047. XANTHOCERAS SORBIFOLIA Bunge. Sapindaceae.

Originally from China. Garden shrub; leaves pinnate; flowers white, in spring.

245048 to 245057.

From France. Scions presented by Georges Delbard, Quai de la Megisserie, Paris. Received January 16, 1958.

245048 and 245049. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

245048. 'Belle Fleur Rouge'.

245049. 'Charles Ross'.

245050 to 245053. PRUNUS AVIUM L. Amygdalaceae. **Sweet cherry.**

245050. 'Durona di Vignola'.

245051. 'Kutakya'.

245052. 'Reine des Convserves'.

245053. 'Tekirdeg'.

245054 and 245055. PRUNUS DOMESTICA L. **Common plum.**

245054. 'Hackmann'.

245055. 'Opal'.

245056 and 245057. PRUNUS × GONDOUINII (Poit. & Turpin) Rehder **Duke cherry.**

245056. 'Belle Magnifique'.

245057. 'Belle Magnifique' (Tardive).

245058 to 245084. ORYZA SATIVA L. Poaceae. Rice.

From South Pacific. Seeds presented by an unknown donor. Received January 16, 1958.

245058. Nanton No. 20.
245059. Nanton No. 40.
245060. Nanton No. 50.
245061. Nanton No. 53.
245062. Nanton No. 54.
245063. Nanton No. 57.
245064. Nanton No. 58.
245065. Nanton No. 71.
245066. Nanton No. 80.
245067. Nanton No. 84.
245068. Nanton No. 85.
245069. Nanton No. 97.
245070. Nanton No. 100.
245071. Nanton No. 131.
245072. Nanton No. 133.
245073. Nanton No. 150.
245074. Nanton No. 151.
245075. Nanton No. 177.
245076. Nanton No. 183.
245077. Nanton No. 188.
245078. Nanton No. 198.
245079. Nanton No. 201.
245080. Nanton No. 211.
245081. Nanton No. 215.
245082. Nanton No. 224.
245083. Nanton No. 244.
245084. Nanton (Unknown).

245085. JUGLANS sp. Juglandaceae.

From France. Scions presented by G. L. Herman, Domaine de Castang, Bergeral, Dardogne. Received January 17, 1958.

'Corne'.

245086. MAHONIA × WAGNERI (Jouin) Rehder Berberidaceae.

From Great Britain. Plants presented by Hillier & Sons, Winchester, England. Received January 17, 1958.

245087. SOLANUM MAGLIA Schlecht. Solanaceae.

From Chile. Tubers collected by D. S. Correll, agricultural explorer, Plant Introduction Section, Crops Research Division, Beltsville, Md. Received January 17, 1958.

Col. No. C–1. 'Papa Sylvestre'. On steep slopes just above the ocean. Plants branched, spreading; flowers white. Tubers orbicular to 4 inches in diameter, purplish-red.

245088 to 245090.

From Chile. Seeds collected by Donovan S. Correll, agricultural explorer, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Received January 20, 1958.

245088 and 245089. Grounds of Ministeria of Agriculture, Santiago.

245088. BRACHYCHITON ACERIFOLIUM F. Muell. Sterculiaceae.

Col. No. C–4. Tall, slender tree; flowers small, tubular, reddish.

245089. PTEROCARYA FRAXINFOLIA (Lam.) Spach. Juglandaceae.
Caucasian wingnut.

Col. No. C–3. Small spreading tree.

245090. LAVATERA ASSURGENTIFLORA Kellogg Malvaceae.
California treemallow.

Col. No. C–2. Along ocean drive between Vina del Mar and Concon. Globular shrub to 12 feet high; flowers pink-red with darker strips.

245091 to 245104.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra City. Received January 20, 1958.

Place of origin as indicated.

245091 to 245100. HYPARRHENIA HIRTA (L.) Stapf Poaceae.

245091. No. 1.

245092. No. 5.

Ermello, Transvaal, South Africa.

245093. No. 14. Amerspoort, South Africa.

245094. No. 23. Witbank, South Africa.

245095. No. 24. Sterkfontein, South Africa.

245096. No. 26. Dekvrou, South Africa.

245097. No. 28. Athole, South Africa.

245098. No. 44. Between Chania and Kalami, Crete. Hard red soil.

245099. No. 46. Beyond Goernes, Crete. White friable clay.

245100. No. 47. Kakkinos Pirgos, Crete. Red soil.

245101 to 245104. BOTHRIOCHLOA ISCHAEMUM (L.) Keng Poaceae.
King's Ranch bluestem.

245101. No. 54. Phillipi, Greece. Undulating terrain at edge of plain.

245102. No. 55. Gazoros, Greece. Replanted eroded land.

245103. No. 58. North East Skopje, Yugoslavia. Upland hills. Elevation 750 feet.

245104. No. 59. Near Titograd, Yugoslavia. Flat valley; soil heavy, red. Elevation 90 feet.

245105. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

From Iran. Seeds presented by the Agricultural Attache, United States Embassy, Tehran. Received January 30, 1958.

Grown in the Qazvin area in northern Iran. Shatters easily and is not adaptable to machine harvest.

245106. SORGHUM ROXBURGHII Stapf Poaceae.

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Jan. 20, 1958.

I. C. 5200. (S–1049). A sweet sorghum that has proved outstanding as a high yielding, early maturing, large grain type; stem fine.

245107. AVENA SATIVA L. Poaceae. **Common oats.**

From Australia. Seeds presented by the Temora Experiment Farm, New South Wales. Received Jan. 20, 1958.

'Alpha'.

245108. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Australia. Seeds presented by the Department of Agriculture, Sydney. Received Jan. 20, 1958.

'Khapstein W1451'.

245109 and 245110. TRITICUM AESTIVUM L. Poaceae.

Common wheat.

From Germany. Seeds presented by the Bayerische Landissaatzuchtanstalt, Freising. Received Jan. 20, 1958.

245109. 478/51. ('Noah' × M1) × ('Hope × 'Newtatch').

245110. 0224/52. ('Erli' × M) × MH.

245111 to 245113. VOANDZEIA SUBTERRANEA (L.) Thouars. Fabaceae.

From France. Seeds presented by the Office de la Recherche Scientifique et Technique Outre-Mer. Nogent-Sur-Marne, Seine. Received Dec. 19, 1957. Numbered Jan. 21, 1958.

245111. A 160.

245112. B 133.

245113. C 150.

245114 to 245141.

From the United States. Seeds held at the Regional Plant Introduction Station, Geneva, New York. Numbered January 21, 1958.

Collected in New Hampshire.

245114 to 245120. PHLEUM PRATENSE L. Poaceae. **Timothy.**

245114. G6672. Along old woods road, Pinkham Notch. Plant wild, vigorous, possibly hardy; culms disease free.

245115. G6673. Along old woods road, Pinkham Notch. Plant wild, vigorous, possibly hardy; culms disease free.

245116. G6674. Woods road, Pinkham Notch. Plant wild, vigorous, possibly hardy; culms disease free.

245117. G6678. Old road near Wildcat River, Jackson. Plant wild, possibly hardy and disease resistant; culms disease free.

245118. G6679. Old road, Wildcat River, Jackson. Plant wild, possibly hardy and disease resistant; culms disease free.

245119. G6683. Along edge of cultivated field, Colebrook. Elevation 2,000 feet. May be hardy; culms disease free.

245120. G6687. Old woods road, Milan. Plant wild, hardy and possibly disease resistant; culms disease free.

245121 and 245122. TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

245121. G6674. Along woods road in unfavorable shaded area. Pinkham Notch. Plant wild, vigorous, possibly hardy; relatively disease free.

245122. G6686. Along old road in shade; soil poor; Columbia. Plant wild, vigorous, leafy, may be hardy; relatively disease free.

245123 to 245129. TRIFOLIUM REPENS L. **Whiteclover.**

245123. G6675. Woods road in unfavorable shaded area, Pinkham Notch. Plant wild, vigorous, possibly hardy; relatively disease free.

245124. G6677. Old meadow in poorly drained soil, Jackson. Plant cultivated, vigorous, spreading, leafy, possibly hardy and disease resistant.

245125. G6680. Along Route 2, near Jefferson. Plant wild, vigorous, spreading, leafy, hardy and disease free.

245126. G6681. Near Route 2, Jefferson. Plant wild, vigorous, spreading, leafy, hardy and disease free.

245127. G6682. Cultivated field near Colebrook. Elevation 2,000 feet. Plant cultivated, hardy and disease free.

245128. G6684. Old pasture field near Strafford. Plant cultivated, spreading, vigorous, hardy, disease free and adapted to relatively poor drainage.

245129. G6685. Old pasture field near Strafford. Plant cultivated, spreading, vigorous, hardy, disease free and adapted to poor drainage.

245130 to 245138. ZEA MAYS L. Poaceae. **Corn.**

245130 and 245131. Collected in Rhode Island.

245130. 57–16 G5727. 'Rhode Island Sweet'. Grown and interpollinated for 28 years. Stalk slender, suckered, leafy, early maturing; ear small; kernels yellow.

245131. 57–17 G5728. 'Rhode Island Flint'. Grown and interpollinated for many years. Suckered, very leafy; ears low, 2 to 3 medium-sized perstalk; kernels flint; early maturing, ripens by September 9.

245132 to 245138. From the Union of Soviet Socialist Republics Embassy, Ottawa; through the MacDonald College, St. Annes, Quebec, Canada.

245132. 57–19 G2475. 'Motto 1311'. Height 40 inches, medium vigor, stalks slender, genuflect, suckered, very leafy, extremely early, half-silked July 17; ears low, small; kernels brown, flint.

245133. 57–20 G2476. 'Motto 4863'. Height 42 inches; very uniform and better than average vigor: early, half-silked July 17; much suckered, leafy; 2 good, small ears per stalk; kernels flint.

245134. 57–21 G2477. 'Motto 5023'. Height 47 inches; vigor poor; slender reddish stalk, suckered extremely early, half-silked July 15; ears low, small; kernels flint.

245135. 57–22 G2478. 'Burley County 5233'. Height 48 inches; fair vigor, stalks slender, genuflect, reddish, suckered, leafy, extremely early, half-silked July 15; leaves narrow, margin wavy; ears low, slender; kernels flint.

245136. 57–23 G2479. 'Pervenets 5550'. Height 46 inches; vigor poor, stalks slender, reddish, genuflect, suckered, extremely early, half-silked July 12; leaves narrow, slender, droopy; ears low, small, kernels flint.

245137. 57–24 G2480. 'Pervenets 7090'. Height 48 inches; vigor medium; not uniform, stalks slender, genuflect, suckered, early maturing, half-silked July 18; leaves long, narrow, droopy; ears 1 to 2 per stalk; many suckers bear ears.

245138. 57–25 G2481. 'Beloyharve Psheno 7209'. Height 43 inches; vigor poor, stalks slender, genuflect, suckered, very leafy at base, extremely early, half-silked July 14; leaves narrow, drooping, wavy; ears low, small; kernels brown, flint.

241539 to 245141. TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

Collected in Switzerland by H. S. Gentry and Harry Schoth, agricultural explorers, Plant Introduction Section, Horticultural Crops Research Branch, Beltsville, Md. Numbered January 21, 1958.

245139. 57–551 G6062. Small, spreading clover in pasture, Les Verrieres, Switzerland.

245140. 57–556 G6063. Near Goppenstein, Switzerland.

245141. 57–560a G6064a. In wet meadow, North Wattvil, Switzerland.

245142. CUCURBITA MAXIMA Duchesne Cucurbitaceae. **Squash.**

From the United States. Seeds being held at the Regional Plant Introduction Station, Ames, Iowa. Numbered January 21, 1958.

Fruit oblate, 8 by 10 inches; ribs 1 inch wide; flesh light yellow.

Selection made from P.I. No. 176536, *C. pepo* from Turkey.

245143 to 245145. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

From Spain. Scions presented by the Estacion Pomologica, Villaviciosa de Cordoba. Received January 21, 1958.

245143. 'Panera'.

245144. 'Reineta Emarnada'.

245145. 'Torena'.

245146. CITRUS AURANTIFOLIA (Christm.) Swingle Rutaceae. **Lime.**

From Morocco. Seeds presented by the Institut Francais de Recherches Fruitieres Outre-Mer, Rabat. Received January 21, 1958.

'Tunis Sweet'.

245147. CITRUS SINENSIS (L.) Osbeck Rutaceae. **Sweet orange.**

From Spain. Budwood presented by J. W. Lesley, Hotel Marquez, Sevilla. Received January 21, 1958.

'Cadenera de Arimon'.

245148 and 245149. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

From Kenya. Seeds presented by the Department of Agriculture, Coffee Research Station, Ruiru. Received January 23, 1958.

245148. SL–28.

245149. SL–34.

245150. ALLIUM CEPA L. Liliaceae. **Onion.**

From Italy. Seeds presented by Consorzio Agrario Provinciale, Trapani, Rome. Received January 22, 1958.

'Italian Red'.

245151 to 245154.

From Liberia. Seeds presented by the United States Operations Mission, Suakoko Station, Monrovia. Received February 26, 1958.

245151. COFFEA CANEPHORA Pierre ex Froehn. Rubiaceae. **Robusta coffee.**

Selection made at the Institut National pour l'Etude Agronomique, du Congo Belge Recherches Station, Yangambi.

245152 to 245154. COFFEA LIBERICA Bull ex Hiern. **Liberian coffee.**

245152. 'Rennie No. 4'.

245153. 'Rennie No. 5'.

245154. 'Tolbert No. 1'.

245155 to 245313.

From Great Britain. Plants presented by Dr. D. R. Egolf, Royal Botanical Gardens, Edinburgh, Scotland. Received December 9, 1957. Numbered February 26, 1958.

245155. VIBURNUM ATROCYANEUM C. B. Clarke Caprifoliaceae. E. No. 1337–612.

245156 to 245169. VIBURNUM BETULIFOLIUM Batal.

245156. E. No. 1338–344.

245157. E. No. 1339–345.

245158. E. No. 1341–386.

245159. E. No. 1342–404.

245160. E. No. 1344–444.

245161. E. No. 1345–445.

245162. E. No. 1346–488.

245163. E. No. 1347–529.

245164. E. No. 1348–553.

245165. E. No. 1349–562.

245166. E. No. 1350–563.

245167. E. No. 1572–403.

245168. E. No. 1573–634.

245169. E. No. 1351–564. 'Aurantiacum'.

245170 and 245171. VIBURNUM BITCHIUENSE Makino

245170. E. No. 1353–336.

245171. E. No. 1354–460.

245172 and 245173. VIBURNUM × BODNANTENSE Aberc.

(V. fragrans × V. grandiflorum.)

245172. E. No. 1357–457.

245173. E. No. 1588–658. 'Charles Lamonti'.

245174 and 245175. VIBURNUM BUREJAETICUM Regel & Herd. **Manchurian viburnum.**

245174. E. No. 1361–512.

245175. E. No. 1362–601.

245176 and 245177. VIBURNUM × BURKWOODII Burkw. & Shipw.

(*V. carlesii* × *V. utile.*)

245176. E. No. 1363–394.

245177. E. No. 1364–395.

245178. VIBURNUM BUDDLEIFOLIUM C. H. Wright **Woolly viburnum.**

E. No. 1360–431.

245179 and 245180. VIBURNUM CARLESII Hemsl. **Fragrant viburnum.**

245179. E. No. 1366–329.

245180. E. No. 1367–453.

245181. VIBURNUM × CHENAULTII Chen.

E. No. 1371–465.

245182 to 245184. VIBURNUM CINNAMOMIFOLIUM Rehder

245182. E. No. 1372–355.

245183. E. No. 1373–423.

245184. E. No. 1374–379.

245185 to 245187. VIBURNUM COTINIFOLIUM D. Don

245185. E. No. 1381–487.

245186. E. No. 1382–567.

245187. E. No. 1383–591.

245188 and 245189. VIBURNUM CYLINDRICUM Blume

245188. E. No. 1384–424.

245189. E. No. 1385–593.

245190 to 245192. VIBURNUM DASYANTHUM Rehder

245190. E. No. 1386–475.

245191. E. No. 1387–550.

245192. E. No. 1389–556.

245193 to 245195. VIBURNUM DAVIDII Franch.

245193. E. No. 1390–609.

245194. E. No. 1392–532.

245195. E. No. 1393–605.

245196 and 245197. VIBURNUM DILATATUM Thunb. **Linden viburnum.**

245196. E. No. 1394–390.

245197. E. No. 1397–334. 'Xanthocarpum'.

245198. VIBURNUM EROSUM Thunb.

E. No. 1399–611.

245199. VIBURNUM EROSUM var. TAQUETII (Levl.) Rehder

E. No. 1400–572.

245200 to 245202. VIBURNUM ERUBESCENS Wall.

245200. E. No. 1403–353.

245201. E. No. 1404–446.

245202. E. No. 1575–406.

245203 and 245204. VIBURNUM FLAVESCENS W. W. Smith

245203. E. No. 1406–387.

245204. E. No. 1407–570.

245205 to 245208. VIBURNUM FOETIDUM Wall.

245205. E. No. 1629.

245206. E. No. 1409–603. (Korean form.)

245207. E. No. 1410–365.

245208. E. No. 1411–435.

245209 to 245215. VIBURNUM FRAGRANS Bunge

245209. E. No. 1414–319.

245210. E. No. 1415–321.

245211. E. No. 1417–349.

245212. E. No. 1418–360.

245213. E. No. 1420–582. 'Alba'.

245214. E. No. 1421–335. 'Nanum'.

245215. E. No. 1422–361. 'Roseum'.

245216 to 245218. VIBURNUM GRANDIFLORUM Wall.

245216. E. No. 1430–625.

245217. E. No. 1576–635.

245218. E. No. 1630.

245219. VIBURNUM HARRYANUM Rehder

E. No. 1432–427.

245220 to 245226. VIBURNUM HENRYI Hemsl.

245220. E. No. 1434–308.
245221. E. No. 1435–352.
245222. E. No. 1436–356.
245223. E. No. 1437–366.
245224. E. No. 1438–369.
245225. E. No. 1439–371.
245226. E. No. 1441–519.

245227. VIBURNUM × HILLIERI Stern

E. No. 1442–416. (*V. erubescense* × *V. henryi.*)

245228. VIBURNUM HUPEHENSE Rehder **Hupeh viburnum.**

E. No. 1443–376. (Egolf's list 1443–370.)

245229 to 245231. VIBURNUM ICHANGENSE (Hemsl.) Rehder

245229. E. No. 1448–396.
245230. E. No. 1449–565.
245231. E. No. 1450–615.

245232. VIBURNUM JAPONICUM (Thunb.) Spreng.

E. No. 1451–375.

245233 to 245235. VIBURNUM KANSUENSE Batal.

245233. E. No. 1353–401.
245234. E. No. 1454–402.
245235. E. No. 1455–636.

245236 to 245239. VIBURNUM LANTANA L. **Wayfaring-tree.**

245236. E. No. 1465–303.
245237. E. No. 1466–466.
245238. E. No. 1467–479.
245239. E. No. 1470–548.

245240. VIBURNUM sp.

E. No. 1471–521.

245241 to 245243. VIBURNUM LOBOPHYLLUM Graebn.

245241. E. No. 1472–419.
245242. E. No. 1437–430.
245243. E. No. 1475–560. 'Flocculosum'.

245244. VIBURNUM MOLLE Michx.

E. No. 1478–539.

245245. VIBURNUM MONGOLICUM (Pall.) Rehder

E. No. 1480–471.

245246. VIBURNUM NUDUM L.

E. No. 1481–514.

245247. VIBURNUM ODORATISSIMUM Ker **Sweet viburnum.**

E. No. 1482–305.

245248 to 245251. VIBURNUM OPULUS L. **European cranberrybush.**

245248. E. No. 1483–547. 'Aureum'.
245249. E. No. 1485–363. 'Compactum'.
245250. E. No. 1487–462. 'Nanum'.
245251. E. No. 1484–606. 'Xanthocarpum'.

245252. VIBURNUM sp.

E. No. 1489–388.

245253. VIBURNUM PAUCIFLORUM Raf.

E. No. 1490–373.

245254 to 245258. VIBURNUM PLICATUM Thunb. **Japanese snowball.**

245254. E. No. 1492–577.

245255. E. No. 1527–508. 'Rowallane'.

245256. E. No. 1568–506. 'Rowallane'.

245257. E. No. 1495–342. 'Tomentosum'.

245258. E. No. 1496–348. 'Tomentosum'.

245259. VIBURNUM PROPINQUUM Hemsl.

E. No. 1498–411. 'Lanceolatum'.

245260. VIBURNUM × RHYTIDOPHYLLOIDES Suringer

E. No. 1500–458. (*V. lantana* × *V. rhytidophyllum*).

245261 to 245266. VIBURNUM RHYTIDOPHYLLUM Hemsl. **Leatherleaf viburnum.**

245261. E. No. 1501–327.

245262. E. No. 1502–328.

245263. E. No. 1503–384.

245264. E. No. 1504–432.

245265. E. No. 1505–566.

245266. E. No. 1506–354. 'Roseum'.

245267 and 245268. VIBURNUM SARGENTII Koehne **Sargent cranberrybush.**

245267. E. No. 1508–325.

245268. E. No. 1509–620.

245269. VIBURNUM SCHENSIANUM Maxim.

E. No. 1510–482.

245270 and 245271. VIBURNUM SIEBOLDII Miquel **Siebold viburnum.**

245270. E. No. 1511–377.

245271. E. No. 1512–545.

245272. VIBURNUM STELLULATUM Wall. ex DC.

E. No. 1515–590.

245273 to 245277. VIBURNUM TINUS L. **Laurustinus.**

245273. E. No. 1567–504.

245274. E. No. 1582–351.

245275. E. No. 1583–413.

245276. E. No. 1516–350. 'Lucidum'.

245277. E. No. 1517–362. 'Roseum'.

245278 to 245281. VIBURNUM PLICATUM Thunb. **Japanese snowball.**

245278. E. No. 1518–515.

245279. E. No. 1519–322.

245280. E. No. 1520–533.

245281. E. No. 1521–585.

245282 to 245284 VIBURNUM UTILE Hemsl. **Service viburnum.**

245282. E. No. 1528–358.

245283. E. No. 1529–385.

245284. E. No. 1530–575.

245285 to 245288. VIBURNUM VEITCHI C. H. Wright **Veitch viburnum.**

245285. E. No. 1557–436.

245286. E. No. 1559–490.

245287. E. No. 1560–516.

245288. E. No. 1561–555.

245289 and 245290. VIBURNUM × VETTERI Zabel

(*V. lentago* × *V. nudum.*)

245289. E. No. 1556–307.

245290. E. No. 1556–380.

245291 and 245292. VIBURNUM WRIGHTII Miquel **Wright viburnum.**

245291. E. No. 1563–367.

245292. E. No. 1565–610.

245293. VIBURNUM (hybrid).

E. No. 1334–392.

245294 to 245313. VIBURNUM sp.

245294. E. No. 1331–623.
245295. E. No. 1431–478.
245296. E. No. 1444–468.
245297. E. No. 1532–381.
245298. E. No. 1536–414.
245299. E. No. 1537–425.
245300. E. No. 1538–429.
245301. E. No. 1540–459.
245302. E. No. 1542–486.
245303. E. No. 1543–523.
245304. E. No. 1544–531.
245305. E. No. 1545–569.
245306. E. No. 1549–592.
245307. E. No. 1550–595.
245308. E. No. 1552–604.
245309. E. No. 1554–621.
245310. E. No. 1574–574.
245311. E. No. 1584–594.
245312. E. No. 1587–659.
245313. Unnumbered.

245314 to 245321. SOLANUM (hybrids). Solanaceae.

From Chile. Tubers collected by Donovan S. Correll, agricultural explorer, Plant Introduction Section, Crops Research Division, Beltsville, Md. Received Jan. 24, 1958.

245314 to 245318. Market, Cauquenes, Maule Province.

245314. Col. No. C. 5. 'Papa Negro o Cirilo'. Tubers purple; eyes deep; flowers yellow-white; grown without irrigation.

245315. Col. No. 6. 'Papa Corahila o Reina'. Drought resistant; tubers ellipsoid, pink-red; eyes shallow; flesh white.

254316. Col. No. C. 7. 'Papa Cirila'. Drought resistant; tubers pinkish-purple; flesh white.

245317. Col. No. C. 8. 'Papa Blanca de Cauquenes'. Tubers white; eyes shallow; flesh white.

245318. Col. No. C. 9. 'Papa Reina Redonda'. Drought resistant; tubers deep pink; eyes rather shallow.

245319. Col. No. C. 10. 'Papa de Curanipe'. Obtained from a native at Curanipe, Maule Province.

245320. Col. No. C. 11. 'Papa Cazuela'. Farmer at Chanco, Maule Province. Tubers reddish-purple.

245321. Col. No. C. 12. 'Papa Cazuela.' Farmer at Chanco, Maule Province. Tubers reddish purple; eyes deep.

245322 and 245323. CITRUS (hybrids). Rutaceae.

From Puerto Rico. Cuttings presented by the Agricultural Extension Service, University of Puerto Rico, Rio Piedras. Received Jan. 24, 1958.

(*C. sinensis* × *C. paradisi.*) Fruit large; peels easily; few seeds; pulp juicy, sweet, not bitter.

245322. 'Chironja B–1'.

245323. 'Chironja B–F'.

245324. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

From Great Britain. Trees presented by East Malling Research Station, Maidstone, Kent, England. Received Jan. 24, 1958.

'Sir Isaac Newton'.

245325. LUPINUS ANGUSTIFOLIUS L. Fabaceae. **Blue lupine.**

From Brazil. Seeds presented by the Instituto Agronomico, Campinas, Sao Paulo. Received Jan. 24, 1958.

I. 22.417.

245326 and 245327.

From the United States. Seeds presented by L. R. Lowrey, Houston, Texas. Received Jan. 24, 1958.

245326. RHUS LANCEOLATA (Gray) Britton Anacardiaceae. **Sumac.**

Collected at Wimberley.

245327. SABAL LOUISIANA (Darby) Bomhard Phoenicaceae. **Palmetto.**

Collected at Frenier Beach, Lake Pontchartrain, Louisiana.

245328 to 245330. PISTACIA VERA L. Anacardiaceae. **Common pistachio.**

From Iran. Cuttings presented by the United States Operations Mission, Tehran. Received Jan. 27, 1958.

245328. 'Moomtaz'. Nuts small; shells dark.

245329. 'Owhadi'. Plant flowers late; regular bearer; nuts in large clusters; ripen mostly at one time, split well, good quality; hull to one inch long, pinkish, with numerous dark spots.

245330. 'Safeed'. Nuts elongated, free-splitting, slightly variable in shape.

245331 and 245332.

From China. Seeds presented by the Plant Industry Division, Joint Commission on Rural Reconstruction, Taipei, Taiwan. Received Jan. 31, 1958.

245331. GLYCINE FORMOSANA Hosokawa Fabaceae.

245332. GLYCINE TOMENTELLA Hayata.

245333 to 245344.

From Great Britain. Plants presented by Bozenham Gardens, Ashton, Northampton, England. Received Jan. 29, 1958.

245333 and 245334. CHAMAECYPARIS PISIFERA (Sieb. & Zucc.) Endl. Pinaceae. **Sawara retinospora.**

245333. 'Plumosa Cyanea Viridis'.

245334. 'Plumosa Nana Compacta'.

245335. CRYPTOMERIA JAPONICA (L.f.) D. Don. Pinaceae. **Common cryptomeria.**

'Pygmaea'.

245336 and 245337. JUNIPERUS COMMUNIS var. DEPRESSA Pursh. Pinaceae. **Juniper.**

245336. Typical form.

245337. 'Aurea'.

245338. JUNIPERUS sp.

245339. JUNIPERUS COMMUNS L. **Common juniper.**

'Stricta'.

245340. JUNIPERUS RECURVA Buch.-Ham. **Himalayan juniper.**

254341 and 254342. JUNIPERUS (hybrids). **Juniper.**

245341. 'Expansa Nana'.

254342. 'Bonin Isles'.

245343. TEUCRIUM SUBSPINOSUM Pourr. Menthaceae.

245344. THUJA PLICATA D. Don Pinaceae. **Giant arborvitae.**

'Rogersii'.

245345 to 245351. EUPHORBIA PULCHERRIMA Willd. Euphorbiaceae. **Common poinsettia.**

From Mexico. Cuttings collected by E. P. Imle, Collaborator, New Crops Research Branch, Plant Industry Station, Beltsville, Md. Received January 30, 1958.

245345 to 245348. Tuxpan, Michoacan, Rancho la Catarina.

245345. Col. No. 68. Plant vigorous; bracts pinkish, scattered along stem. A variant that appeared in a planting of the red-bracted type.

245346. Col. No. 69. Plant has red and pink bracts with pink and yellow striations.

245347. Col. No. 70. Bracts yellow and pink. Possibly a variant from the red-bracted type.

245348. Col. No. 71. Plant with yellow bracts, pink striation; outstanding.

245349 to 245351. Zitacuaro, Michoacan. On highway to Guadalajara near Rancho la Carolina.

245349. Col. No. 72. Plant vigorous; heads large; bracts a beautiful pure yellow.

245350. Col. No. 73. Single plant collection; wild.

245351. Col. No. 74. Plant vigorous; bracts double, deep red, persistent; sets few or no seeds, cultivated.

245352 to 245354. ORYZA SATIVA L. Poaceae. **Rice.**

From Cuba. Seeds presented by the Lone Star Farms Corporation, Cienfuegos. Received January 31, 1958.

245352. No. 45B.

245353. No. 47.

245354. No. 48.

245355 to 245365.

From Australia. Seeds presented by George Althofer, Dripstone, New South Wales. Received January 31, 1958.

245355. CALLISTEMON PINIFOLIUS DC. Myrtaceae. **Bottlebrush.**

245356. CALOTHAMNUS VILLISUS R. Br. Myrtaceae.

245357. MELALEUCA CRASSIFOLIA Benth. Myrtaceae.

245358. MELALEUCA ERICIFOLIA J. E. Em.

245359. MELALEUCA HAMULOSA Turcz.

245360. MELALEUCA INCANA R. Br.

245361. MELALEUCA MEGACEPHALA F. Muell.

245362. MELALEUCA STEEDMANII C. A. Gardn.

245363. MELALEUCA SUBTRIGONA Schau.

245364. MELALEUCA TERETIFOLIA Endl.

245365. MELALEUCA WILSONII F. Muell.

245366. FAGOPYRUM ESCULENTUM Moench Polygonaceae. **Buckwheat.**

From Guatemala. Seeds presented by the Division of Agriculture and Food Chemistry, Nutritional Institute of Central America, Guatemala City. Received, January 31, 1958.

Originally from El Salvador.

245367. LUPINUS ALBUS L. Fabaceae. **White lupine.**

From Brazil. Seeds presented by the Divisao de Experimentacao e Fomento Agricola, State of Parana-Curitiba. Received January 31, 1958.

I 22.454. Collected in Irata, State of Parana.

245368. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Guatemala. Seeds presented by Servicio Cooperativo Inter-Americano de Agricultura, La Aurora. Received Jan. 28, 1958.

'Criollo Santa Irene'.

245369. EUCALYPTUS DEGLUPTA Blume Myrtaceae. **Gumtree.**

From the United States. Plants growing at the United States Plant Introduction Station, Chico, California. Numbered Feb. 3, 1958.

Originally from Maui, Territory of Hawaii. This species cold sensitive.

245370 to 245375.

From India. Seeds presented by the International Cooperation Administration, New Delhi. Received Feb. 3, 1958.

From Desert Reforestation and Soil Conservation Station, Jodhpur.

245370. CENCHRUS SETIGERUS Vahl Poaceae. **Sandbur.**

245371. ELEUSINE FLAGELLIFERA Nees Poaceae.

245372. ELYONURUS HIRSUTUS (Cahl) Munro Poaceae.

245373. PANICUM TURGIDUM Forsk. Poaceae.

245374 to 245375. CENCHRUS CILIARIS L. Poaceae. **Buffelgrass.**

245374. 'White'.

245375. Common type.

245376 to 245666.

From Japan. Seeds presented by the National Institute of Genetics, Misima, Sizuaka-ken. Received Feb. 4, 1958.

From a 1955 expedition to the Hindu Kush Mountains, Afghanistan.

245376 to 245640. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

245376.	No. 3003.	**245393.**	No. 3063.	**245410.**	No. 3101.
245377.	No. 3007.	**245394.**	No. 3064.	**245411.**	No. 3107.
245378.	No. 3010.	**245395.**	No. 3068.	**245412.**	No. 3109.
245379.	No. 3013.	**245396.**	No. 3069.	**245413.**	No. 3112.
245380.	No. 3017.	**245397.**	No. 3075.	**245414.**	No. 3114.
245381.	No. 3028.	**245398.**	No. 3076.	**245415.**	No. 3117.
245382.	No. 3035.	**245399.**	No. 3083.	**245416.**	No. 3123.
245383.	No. 3036.	**245400.**	No. 3084.	**245417.**	No. 3124.
245384.	No. 3050.	**245401.**	No. 3085.	**245418.**	No. 3125.
245385.	No. 3052.	**245402.**	No. 3086.	**245419.**	No. 3126.
245386.	No. 3056.	**245403.**	No. 3087.	**245420.**	No. 3127.
245387.	No. 3057.	**245404.**	No. 3088.	**245421.**	No. 3128.
245388.	No. 3058.	**245405.**	No. 3089.	**245422.**	No. 3129.
245389.	No. 3059.	**245406.**	No. 3091.	**245423.**	No. 3131.
245390.	No. 3060.	**245407.**	No. 3092.	**245424.**	No. 3139.
245391.	No. 3061.	**245408.**	No. 3096.	**245425.**	No. 3143.
245392.	No. 3062.	**245409.**	No. 3097.	**245426.**	No. 3148.

245427. No. 3149.
245428. No. 3151.
245429. No. 3152.
245430. No. 3153.
245431. No. 3157.
245432. No. 3158.
245433. No. 3159.
245434. No. 3160.
245435. No. 3161.
245436. No. 3162.
245437. No. 3163.
245438. No. 3165.
245439. No. 3166.
245440. No. 3167.
245441. No. 3169.
245442. No. 3170.
245443. No. 3171.
245444. No. 3172.
245445. No. 3174.
245446. No. 3175.
245447. No. 3177.
245448. No. 3178.
245449. No. 3179.
245450. No. 3181.
245451. No. 3182.
245452. No. 3183.
245453. No. 3184.
245454. No. 3186.
245455. No. 3187.
245456. No. 3189.
245457. No. 3190.
245458. No. 3191.
245459. No. 3194.
245460. No. 3195.
245461. No. 3200.
245462. No. 3204.
245463. No. 3205.
245464. No. 3211.
245465. No. 3212.
245466. No. 3214.
245467. No. 3216.
245468. No. 3217.
245469. No. 3218.
245470. No. 3219.
245471. No. 3314.
245472. No. 3221.
245473. No. 3223.
245474. No. 3224.
245475. No. 3225.
245476. No. 3226.
245477. No. 3230.
245478. No. 3231.
245479. No. 3234.
245480. No. 3235.
245481. No. 3237.
245482. No. 3238.
245483. No. 3241.
245484. No. 3242.
245485. No. 3243.
245486. No. 3245.
245487. No. 3248.
245488. No. 3253.
245489. No. 3254.
245490. No. 3272.
245491. No. 3273.
245492. No. 3290.
245493. No. 3292.
245494. No. 3293.
245495. No. 3294.
245496. No. 3302.
245497. No. 3303.
245498. No. 3307.
245499. No. 3308.
245500. No. 3311.
245501. No. 3314.
245502. No. 3316.
245503. No. 3317.
245504. No. 3321.
245505. No. 3322.
245506. No. 3324.
245507. No. 3325.
245508. No. 3327.
245509. No. 3328.
245510. No. 3329.
245511. No. 3337.
245512. No. 3338.
245513. No. 3340.
245514. No. 3344.
245515. No. 3347.
245516. No. 3348.
245517. No. 3353.
245518. No. 3354.
245519. No. 3356.
245520. No. 3361.
245521. No. 3365.
245522. No. 3368.
245523. No. 3369.
245524. No. 3370.
245525. No. k3005.
245526. No. k3009.
245527. No. k3011.
245528. No. k3012.
245529. No. k3015.
245530. No. k3016.
245531. No. k3017.
245532. No. k3018.
245533. No. k3023.
245534. No. k3025.
245535. No. k3026.
245536. No. k3027.
245537. No. k3030.
245538. No. k3038.
245539. No. k3041.
245540. No. k3042.
245541. No. k3044.
245542. No. k3047.
245543. No. k3048.
245544. No. k3049.
245545. No. k3050.
245546. No. k3051.
245547. No. k3060.
245548. No. k3064.
245549. No. k3067.
245550. No. k3068.
245551. No. k3069.
245552. No. k3070.
245553. No. k3074.
245554. No. k3075.
245555. No. k3076.
245556. No. k3077.
245557. No. k3079.
245558. No. k3080.

245559. No. k3088.
245560. No. k3090.
245561. No. k3091.
245562. No. k3092.
245563. No. k3093.
245564. No. k3094.
245565. No. k3095.
245566. No. k3097.
245567. No. k3098.
245568. No. k3100.
245569. No. k3101.
245570. No. k3102.
245571. No. k3103.
245572. No. k3106.
245573. No. k3110.
245574. No. k3111.
245575. No. k3112.
245576. No. k3120.
245577. No. k3124.
245578. No. k3128.
245579. No. k3131.
245580. No. k3142.
245581. No. k3145.
245582. No. k3151.
245583. No. k3152.
245584. No. k3153.
245585. No. k3156.
245586. No. k3157.
245587. No. k3159.
245588. No. k3160.
245589. No. k3161.
245590. No. k3163.
245591. No. k3172.
245592. No. k3174.
245593. No. k3181.
245594. No. k3188.
245595. No. k3190.
245596. No. k3191.
245597. No. k3197.
245598. No. k3198.
245599. No. k3202.
245600. No. k3204.
245601. No. k3205.
245602. No. k3207.
245603. No. k3212.
245604. No. k3214.
245605. No. k3215.
245606. No. k3217.
245607. No. k3220.
245608. No. k3221.
245609. No. k3222.
245610. No. k3223.
245611. No. k3224.
245612. No. k3225.
245613. No. k3226.
245614. No. k3231.
245615. No. k3232.
245616. No. k3234.
245617. No. k3235.
245618. No. k3238.
245619. No. k3239.
245620. No. k3240.
245621. No. k3243.
245622. No. k3244.
245623. No. k3246.
245624. No. k3247.
245625. No. k3249.
245626. No. k3253.
245627. No. k3255.
245628. No. k3258.
245629. No. k3261.
245630. No. k3265.
245631. No. k3266.
245632. No. k3267.
245633. No. k3268.
245634. No. k3271.
245635. No. k3272.
245636. No. k3273.
245637. No. k3274.
245638. No. k3276.
245639. No. k3277.
245640. No. k3280.

245641 to 245647. TRITICUM COMPACTUM Host **Club wheat.**

245641. No. 3032.
245642. No. 3037.
245643. No. 3039.
245644. No. 3044.
245645. No. 3100.
245646. No. 3108.
245647. No. k3063.

245648 to 245661. TRITICUM DURUM Desf. **Durum wheat.**

245648. No. 3233.
245649. No. 3250.
245650. No. 3251.
245651. No. 3252.
245652. No. 3255.
245653. No. 3256.
245654. No. 3259.
245655. No. 3260.
245656. No. 3261.
245657. No. 3263.
245658. No. 3267.
245659. No. 3268.
245660. No. 3270.
245661. No. 3291.

245662. TRITICUM sp.

No. 3228. A small but distinct race from Khorasan, Turkey, where it is cultivated on irrigated land.

245663 and 245664. TRITICUM POLONICUM L. **Polish wheat.**

245663. No. 3002. **245664.** No. k3177.

245665 and 245666. TRITICUM TURGIDUM L. **Poulard wheat.**

245665. No. k3149. **245666.** No. k3158.

245667. PRUNUS AVIUM L. Amygdalaceae. **Sweet cherry.**

From Sweden. Scions presented by Balsgard Fruit Breeding Institute, Fjalkestad. Received February 4, 1958.

Pr. 20621 (2n=32).

245668. PRUNUS CERASUS L. **Sour cherry.**

From Germany. Scions presented by the Max-Planck-Institut fur Zuchtungsforschung, Cologne. Received February 4, 1958.

'Heimanns Konservenweichsel'. A compact hardy tree, self-fertile; fruits abundant. Originated in Hungary about 1926 and was known as 'Pandy' or the 'Glasweichsel', is comparable to the 'Schattenmorelle'. Vitamin C content is ⅓ higher than in the 'Schattenmorelle'; fruit larger.

245669 and 245670. VITIS (hybrids). Vitaceae. **Grape.**

From Portugal. Cuttings presented by the Agricultural Attache, United States Embassy, Lisbon. Received February 4, 1958.

Two traditional wine varieties on the Island of Madeira. These varieties are notable for their grapejuice quality but the quantity is only fair.

245669. 'Cercial'. ('Esgana-cao'.) 7.5% tartaric acid and relatively poor in sugars, giving a fresh acid taste to the wine peculiar to this variety. The average alcohol content of this wine is 11%.

245670. 'Terrantez'. 8.5% tartaric acid and a relatively high sugar content, giving an aromatic characteristic to the wine. The average alcohol content of this wine is 14%.

245671 to 245675. PRUNUS ARMENIACA L. Amygdalaceae. **Apricot.**

From France. Cuttings presented by the Station de Recherches Viticoles & d'Arboriculture Fruitiere, Pont-de-la-Maye. Received February 5, 1958.

245671. 'Bulida'. Originally from Spain. Fruit small, ripens in June and July; cannot be heavily pruned.

245672. 'Caninos'. Originally from Murcie Spain. Fruit oblong, irregularly shaped on stem end; skin yellow-amber to greenish-yellow; flesh yellow-orange, crisp, very juicy; freestone. Matures in June, average quality for transportation, canning; very productive; resistant to disease. Variety does not do well under irrigation. Compatible with understocks of 'Franc de Reine Claude', 'P. 31-Myrobolan B'. (but not all 'Myrobolan') and peach.

245673. 'Poizat Aneliore Darnaud'. A regular bearer; ripens about mid-July.

245674. 'Precoce Colomer'. ('Precoce de Couloumer'; 'Precoce du Roussillon'.) A chance cross made on the Island of Tet; adopted by the trade in 1930. Fruit oblong to truncate, overlapping at the suture line; skin dark yellow; flesh yellow-orange, slightly tart, not juicy; freestone. Matures in June. Very productive; resistant to diseases; good for drying; compatible with peach rootstocks.

245675. 'Rouge du Roussillon'. A variable variety; origin uncertain. Fruit freestone; matures in July. Shipping quality good; canning quality good; taste good; very productive; resistant to disease. Compatible with rootstocks of 'Mariana', 'Damas de Toulouse' and peach.

245676 to 245684.

From the Union of Soviet Socialist Republics. Bulbs and seeds presented by the Hebrew University, Jerusalem, Israel. Planted at the Agricultural Experiment Station, Davis, California. Numbered February 5, 1958.

From the Botanic Garden, Erivan, Armenia. Each accession consists of bulbs and seeds.

245676. ALLIUM ALBIDUM Fisch. Liliaceae.

Highlands of northern Armenia.

245677. ALLIUM CARDIOSTEMON Fisch & Mey.

Arid woods, southern Armenia.

245678. ALLIUM FUSCOVIOLACEUM Fom.

Upland steppe, southern Armenia.

245679. ALLIUM VINEALE L.

River banks, southern Armenia.

245680. ALLIUM KARSIANUM Fom.

Upland steppe, northern Armenia.

245681. ALLIUM SPHAEROCEPHALON L.

Semidesert, southern Armenia.

245682. ALLIUM sp.

Semidesert, southern Armenia.

245683. ALLIUM AKAKA Gmel.

Phrygana, southern Armenia.

245684. ALLIUM GLOBOSUM Bieb.

Mountain zone, northern Armenia.

245685 to 245688. ZEA MAYS L. Poaceae. **Corn.**

From the Union of South Africa. Seeds presented by the Department of Agriculture, Natal Region, Pietermaritzburg. Received Feb. 6, 1958.

Hybrids highly resistant to northern leaf blight (*Helminthosporium turcicum*) and have withstood lodging even during stormy seasons. High yielders; matures in 150 to 155 days.

245685. N7000. (B2895S × B479S) × (K4.KY36–11 × B489S).

245686. N7001. (B2895S × B278S) × (B1138T × B670T).

245687. N7002 (B2895S × A441–5) × (B1138T × B679T).

245688. N7003. (B2895S × B2778S) × (B489S × (B670T).

245689. HIEROCHLOE ODORATA (L.) Beauv. Poaceae. **Vanillagrass.**

From Sweden. Seeds presented by the Svalof Plant Breeding Station, Svalof. Received Feb. 6, 1958.

245690 to 245707. ORYZA SATIVA L. Poaceae. **Rice.**

From Japan. Seeds presented by an unknown donor. Received Feb. 6, 1958.

245690. C 10.
245691. Clustered spikelet.
245692. Dwarf.
245693. Rd 1.
245694. A 5.
245695. A 13.
245696. A 32.
245697. A 58.
245698. A 73.
245699. C 19.
245700. D 1.
245701. H 9.
245702. H 25.
245703. H 52.
245704. H 59.
245705. N 1.
245706. N 11.
245707. N 45.

245708 to 245718.

From China. Seeds presented by an unknown donor, Taiwan. Received Feb. 6, 1958.

245708. ORYZA PARAGUAYENSIS Wedd. ex E. Fourn. **Rice.**

245709 to 245718. ORYZA SATIVA L. **Rice.**

245709. No. number.
245710. No. 242.
245711. No. 325.
245712. No. 341.
245713. No. 435.
245714. No. 451.
245715. No. 647.
245716. No. 717.
245717. No. 721.
245718. No. 777.

245719 to 245724. VITIS VINIFERA L. Vitaceae. European grape.

From Italy. Cuttings presented by the Agricultural Attache, United States Embassy, Rome. Received Feb. 6, 1958.

245719. 'Ciclopica'. Pirovano N. 60.

245720. 'Maria Pirovano'. Pirovano N. 165.

245721. 'Mendel'. Pirovano N. 532.

245722. 'Mirifica'. Pirovano N. 432.

245723. 'Moscato Fiamma'. Pirovano Cross.

245724. 'Santa Barbara'. Pirovano N. 480.

245725 to 245758.

From Turkey. Seeds presented by the United States Operations Mission, Ankara. Received Feb. 7, 1958.

245725. AEGILOPS CRASSA Boiss. Poaceae. **Goatgrass.**

Ceylanpinar, Urfa Province.

245726. AEGILOPS SPELTOIDES Tausch **Goatgrass.**

Ceylanpinar, Urfa Province.

245727 and 245728. BOTHRIOCHLOA INTERMEDIA (R. Br.) A. Camus Poaceae. **Australian bluestem.**

245727. Bala, Ankara Province.

245728. Kaman, Kirsehir Province. Dry hillside.

245729. ARRHENATHERUM ERIANTHUM Boiss. & Reut. Poaceae.

Bucuk Baraj, Ankara Province. Tall, perennial grass, with flat leaf blades and dense erect panicles. Native to Spain.

245730. BRACHYPODIUM DISTACHYON (L.) Beauv. Poaceae.

Kaman Kirschir Province. Arid; elevation 3,000 feet. **Purple falsebrome.**

245731 and 245732. BROMUS DANTHONIAE Trin. Poaceae. **Brome.**

245731. Bala, Ankara Province. Arid; elevation 3,000 feet.

245732. Ceylanpinar, Urfa Province. Dry.

245733. BROMUS TECTORUM L. Poaceae. **Cheatgrass.**

Bala, Ankara Province. Arid; elevation 3,000 feet.

245734. HELICTOTRICHON sp. Poaceae.

Tokat, Sivas Highway, North Slope, Tokat Province.

245735. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

Market, Mardin Province.

245736. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

Iyneler, Thrace. Used for oil. A black, pubescent seeded type, grown mostly in the northern part of Turkey.

245737 to 245743. Ceylanpinar, Urfa Province.

245737 and 245738. HORDEUM BULBOSUM L. Poaceae. **Bulbous barley.**

245737. No. 1.

245738. No. 3.

245739 to 245741. HORDEUM SPONTANEUM C. Koch. **Barley.**

245739. No. 1.

245740. No. 2.

245741. No. 3.

245742. HORDEUM sp.

245743. POA BULBOSA L. Poaceae. **Bulbous bluegrass.**

245744. TRIFOLIUM NIGRESCENS Viv. Fabaceae. **Ball clover.**

Gelembe Experiment Station. Annual; flowers white. Selected strain, adapted to areas with high water table. Native to southern Europe and the Mediterranean region.

245745. TRIGONELLA MONANTHA C. A. Mey. Fabaceae.

Bucuk Baraj, Ankara Province.

245746 to 245756. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

245746 and 245747. Malatya Province.

245746. (No data.)

245747. (No data.)

245748 to 245752. Maras Province.

245748. Market, Ceyhan.

245749. Market, Torcu.

245750. Market, Yokoul-Yemez.

245751. Market, Deve disi.

245752. Market, Florence.

245753 to 245755. Urfa Province.

245753. Singlehead. Bearded type with awns black at base.

245754. Singlehead. Bearded type.

245755. Singlehead. Bearded type.

245756. Gokhuyuk State Farm, Amasya Province. Singlehead.

245757. VICIA ERVILIA (L.) Willd. Fabaceae. **Bittervetch.**

Bucuk Baraj, Ankara Province.

245758. VICIA sp.

Gokhuyuk, Amasya Province.

245759. JUGLANS REGIA L. Juglandaceae. **Persian walnut.**

From France. Scions presented by G. L. Herman, Domaine de Castang, Bergerac, Dordogne. Received February 7, 1958.

'Marbeau'.

245760. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

From the United States. Seeds held at the Regional Plant Introduction Station, Ames, Iowa. Numbered February 10, 1958.

Originally received from Rhode Island by the Regional Plant Introduction Station, Geneva, N.Y. Sent to Ames, Iowa in 1956 as a selection of P.I. 223313 with yellow fruits.

245761 to 245853.

From Chile. Tubers and seeds collected by D. S. Correll, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received February 10, 1958.

Material received as tubers unless otherwise noted.

245761. DIOSCOREA sp. Dioscoreaceae.

Col. No. C–18. Growing on slopes above lake at Panguipulli. Twining vine with thick roots; roots used as soap by the natives.

245762. SOLANUM BREVIDENS Phil. Solanaceae.

Col. No. C–20. Banos San Pedro, Lago Ranco. Tubers cream-white with reddish tinge; flowers large, bluish-white.

245763 and 245764. SOLANUM ETUBEROSUM Lindl.

245763. Col. No. C–14. Road from Cherquenco to Refugio Llaima. Plants to 4 ft. high; flowers blue-purple; fruits gray-green, usually purple at base.

245764. Col. No. C–15. Along streams at Liapenco, above Pucon. Plants robust and spreading; flowers light blue; fruits green.

245765. SOLANUM sp.

Col. No. C–25. Grown at Centinella Agricultural Experiment Station, Puerto Octay. Originally from Colombia. Plants low, bushy; tubers white, spotted with purplish red; flesh deep yellow with numerous small eyes.

245766 to 245853. SOLANUM (hybrids).

245766 to 245800. Grown at Centinella Agricultural Experiment Station, Puerto Octay. Localities given are original sources of material.

245766. Col. No. C–26. 'Blanca'. Tubers white; skin white.

245767. Col. No. C–27. 'Comuy'. Pilmaquen. Osorno Province. Tubers orbicular; skin deep pink; flesh cream.

245768. Col. No. C–28. 'Frutilla'. Island of Chiloe. Tubers ellipsoid; skin yellow; flesh white.

245769. Col. No. C–29. 'Azul'. Tubers round or ellipsoid; skin purple, flesh white.

245770. Col. No. C–30. 'Castro'. Island of Chiloe. Tubers ellipsoid; skin yellow and pink; flesh yellow.

245771. Col. No. C–31. 'Clavella'. Tubers round; skin yellow and pink; flesh cream.

245772. Col. No. C–32. 'Natalina'. Island of Chiloe. Tubers round; skin pink; flesh cream.

245773. Col. No. C–33. 'Corahila Pintada'. Island of Chiloe. Tubers ellipsoid; skin yellow and pink; flesh yellow.

245774. Col. No. C–34. 'Sedalina'. Osorno Province. Tubers round; skin flesh-colored; flesh yellow.

245775. Col. No. C–35. 'Mundial'. Pucon, Lago Cabulla. Tubers irregularly round; skin yellow and pink; flesh yellow.

245776. Col. No. C–36. 'Corahila Macho'. Island of Chiloe. Tubers round and ellipsoid; skin yellow and pink; flesh yellow.

245777. Col. No. C–37. 'Corahila Fina'. Island of Chiloe. Tubers broadly ellipsoid; eyes shallow; skin pink; flesh yellow.

245778. Col. No. C–38. 'Colique'. Pucon, Caburhua Lake. Tubers long, cylindric, curved; skin white and pink; flesh white.

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245779. Col. No. C–39. 'Corahila Blanca'. Tubers round, ellipsoid; skin white, with a red-pink blush; flesh yellow.

245780. Col. No. C–40. 'Negra'. Osorno Province. Tubers ellipsoid; skin black; flesh white.

245781. Col. No. C–41. 'Palmeta'. Island of Chiloe. Tubers round; flesh and skin white.

245782. Col. No. C–42. 'Clavella'. Tubers round; skin yellow, flushed pink about eyes; flesh yellow.

245783. Col. No. C–43. 'Amarilla Temprana'. Villarica. Tubers round; skin white; flesh yellow.

245784. Col. No. C–44. 'Varias Castro'. Island of Chiloe. Tubers round, ellipsoid; skin purple; flesh white.

245785. Col. No. C–45. 'Morada Lisa'. Island of Chiloe. Tubers irregular; skin purple; flesh white.

245786. Col. No. C–46. 'Colorada'. Tubers round, ellipsoid; skin pink; flesh yellow.

245787. Col. No. C–47. 'Corahila Castro'. Island of Chiloe. Tubers ellipsoid; skin yellow and pink; flesh yellow.

245788. Col. No. C–48. 'Morada'. Island of Chiloe. Tubers round; skin purple; flesh white.

245789. Col. No. C–49. 'Reina'. Cautin Province. Tubers ellipsoid; skin pink; flesh yellow.

245790. Col. No. C–50. 'Pehuenche'. Coihueco Province. Tubers irregular; skin purple; flesh white. Resistant to blight.

245791. Col. No. C–51. 'Quila'. Petrugquen Province, Cautin. Tubers broadly ellipsoid; eyes numerous, deep-set; skin and flesh white.

245792. Col. No. C–52. 'Morada Ojuda'. Island of Chiloe. Tubers round; eyes small, deep-set; skin purple-black; flesh white.

245793. Col. No. C–53. 'Cirila'. Tubers irregularly round; eyes numerous, deep-set; skin purple-red; flesh white.

245794. Col. No. C–54. 'Rosada Cancalue'. Island of Chiloe. Tubers irregularly round and flat; skin light flesh-pink; flesh yellow.

245795. Col. No. C–55. 'Serena'. La Serena. Tubers round; skin flesh-pink; flesh yellow.

245796. Col. No. C–56. 'Detico'. Tubers long, spindle-shaped; skin pink; flesh white.

245797. Col. No. C–57. 'Mojon de Gato'. Osorno Province. Tubers long-ellipsoid, fusiform; skin purple-black; flesh white.

245798. Col. No. C–58. 'Peulla'. Osorno Province. Tubers round, ellipsoid; skin white.

245799. Col. No. C–59. 'Morada'. Island of Chiloe. Tubers flat, ellipsoid; skin purple; flesh white.

245800. Col. No. C–60. 'Mucana'. Cautin Province. Tubers round; eyes shallow; skin flesh-pink; flesh yellow.

245801 to 245809. Grown in small garden, La Pasada, Prov. Llanquehue.

245801. Col. No. C–61. 'Corahila'. La Pasada, Llanquehue Province. Tubers ovoid, compressed; skin pink; flesh yellow.

245802. Col. No. C–62. 'Corahila Blanca'. La Pasada, Llanquehue Province. Tubers ellipsoid, compressed; skin yellow-pink; flesh yellow.

245803. Col. No. C–63. La Pasada, Llanquehue Province. Tubers ellipsoid, compressed; skin purple; flesh yellow.

245804. Col. No. C–64. 'Mantequilla'. La Pasada, Llanquehue Province. Tubers round; skin yellow-white; flesh yellow.

245805. Col. No. C–65. 'Huaicana'. La Pasada, Llanquehue Province. Tubers ellipsoid; skin purple-black; flesh white.

245806. Co. No. C–66. 'Corahila Largo'. La Pasada, Llanquehue Province. Tubers round, ellipsoid; skin purple-red; flesh yellow.

245807. Col. No. C–67. 'Rosada'. La Pasada, Llanquehue Province. Tubers round; skin pink; flesh white.

245808. Col. No. C–68. 'Frutilla'. La Pasada, Llanquehue Province. Tubers ellipsoid; skin yellow-pink; flesh yellow.

245809. Col. No. C–69. 'Clavela'. La Pasada, Llanquehue Province. Tubers ellipsoid, compressed; skin yellow; flesh white.

245810. Col. No. C–70. Ancud, Island of Chiloe. Tubers round, compressed; skin red-purple; flesh yellow.

245811. Col. No. C–71. Ancud, Island of Chiloe. Tubers round; skin flesh-pink; flesh white.

245812. Co. No. C–72. Ancud, Island of Chiloe. Tubers ellipsoid, compressed; skin white; flesh yellow.

245813. Col. No. C–73. 'California'. Ancud, Island of Chiloe. Tubers fusiform-cylindric; skin white; flesh yellow.

245814. Col. No. C–74. 'Corahila Rosada'. Ancud, Island of Chiloe. Tubers round, ellipsoid; skin purple-pink; flesh deep yellow.

245815. Col. No. C–75. 'Montequilla'. Ancud, Island of Chiloe. Tubers round, ellipsoid; skin white; flesh deep yellow.

245816. Col. No. C–76. 'Papa Blanca'. Ancud, Island of Chiloe. Tubers round; skin white; flesh yellow.

245817. Co. No. C–77. Ancud, Island of Chiloe. Tubers ellipsoid, compressed; skin white; flesh yellow.

245818. Col .No. C–78. 'Papa Blanca'. Small farm south of Ancud, Island of Chiloe. Tubers round, ellipsoid; skin white.

245819. Col. No. C–79. 'Papa Negra'. Small farm south of Ancud, Island of Chiloe. Tubers round; skin purple; flesh yellow.

245820. Col. No. C–80. 'Corahila'. Small farm south of Ancud, Island of of Chiloe. Tubers round; skin purple; flesh yellow.

245821. Col. No. C–81. Small farm south of Ancud, Island of Chiloe. Tubers round; skin purple; flesh white.

245822. Col. No. C–82. Small farm south of Ancud, Island of Chiloe. Tubers ovoid; eyes shallow; skin yellow and pink; flesh yellow.

245823. Col. No. C–83. Small farm at Nercon Castro, Island of Chiloe. Tubers ovoid; eyes shallow; skin yellow and pink; flesh yellow.

245824. Col. No. C–84. 'Meada de Gato'. Small farm at Nercon Castro, Island of Chiloe. Tubers ellipsoid; skin purple-black; flesh white.

245825. Col. No. C–85. 'Corahila Rama'. Small farm at Nercon Castro, Island of Chiloe. Tubers round; eyes wide, shallow; skin dull pink; flesh white.

245826. Col. No. C–86. 'Blanca Dura'. Small farm at Nercon Castro, Island of Chiloe. Tubers round; eyes small, shallow; skin and flesh white.

245827. Col. No. C–87. 'Natalina'. Farm between Putemun and Pidpid, Castro, Island of Chiloe. Tubers round; skin flesh-pink; flesh white. A heavy producer.

245828. Col. No. C–88. 'Ackersegen'. Small farm between Putemun and Pidpid, Castro, Island of Chiloe. Tubers round; skin and flesh white. A German variety that is blight resistant.

245829. Col. No. C–89. 'Corahila Chilota'. Small farm at Pidpid Castro, Island of Chiloe. Tubers ellipsoid; eyes broad, shallow; skin purple-pink; flesh yellow.

245830. Col. No. C–90. 'Corahila Legitima'. Small farm at Putemun, Castro, Island of Chiloe. Tubers round, ellipsoid; eyes shallow; skin red-pink; flesh yellow.

245831. Col. No. C–91. 'Papa Blanca'. Small farm near Putemun, Castro. Tubers ellipsoid, compressed; eyes shallow; skin and flesh white.

245832. Col. No. C–92. 'Rosada Negra'. Small farm near Putemun, Castro Island of Chiloe. Tubers round, compressed; eyes broad, shallow; skin purple; flesh white. Bears well.

245833. Col. No. C–93. 'Natalina'. Small farm at Dalchue, Castro, Island of Chiloe. Tubers round; eyes irregular; skin dull-red; flesh yellow.

245834. Col. No. C–94. 'Corahila Blanca'. Small farm near Dalcahue, Castro, Island of Chiloe. Tubers ellipsoid, compressed; eyes broad, shallow; skin yellow and pink mottled; flesh yellow.

245835. Col. No. C–95. 'Corahila Rosada'. Small farm near Dalcahue, Castro, Island of Chiloe. Tubers ovoid, compressed; eyes small, shallow; skin pink; flesh white.

245836. Col. No. C–96. 'Natalina'. Small farm near Dalcahue, Castro, Island of Chiloe. Tubers round; eyes round, shallow; skin flesh-pink; flesh white.

245837. Col. No. C–97. 'Toltena'. Farm near Dalcahue, Castro, Island of Chiloe. Tubers round; eyes shallow, pink; skin flesh-color; flesh white.

245838. Col. No. C–98. 'Menendez'. Small farm near Dalcahue, Castro, Island of Chiloe. Tubers round; skin and flesh white.

245839. Col. No. C–99. 'Corahila Pina'. Small farm near Dalcahue, Castro, Island of Chiloe. Tubers round; skin deep-pink; flesh white.

245840. Col. No. C–100. 'Papa Corahila Blanca'. Grown near Dalcahue, Castro, Island of Chiloe. Tubers ellipsoid; skin yellow; flesh white.

245841. Col. No. C–101. 'Papa Blanca'. Farm near Dalcahue, Castro, Island of Chiloe. Tubers round; skin and flesh white.

245842. Col. No. C–102. 'Papa Rinon'. Small farm near Dalcahue, Castro, Island of Chiloe. Tubers ovoid-ellipsoid, compressed; skin purple; flesh white.

245843. Col. No. C–103. 'Papa Natalina'. Small farm near Dalcahue, Castro, Island of Chiloe. Tubers round; skin flesh-pink; flesh white.

245844. Col. No. C–104. 'Tonta'. Lemuy Island. Grown on farm at Pindaco near Chonchi, Castro, Island of Chiloe. Tubers round; skin white; flesh rich yellow.

245845. Col. No. C–105. 'Sedosa'. Pindaco near Chonchi, Castro, Island of Chiloe. Tubers round; skin red-pink; flesh white.

245846. Col. No. C–106. 'Araucana'. Garden on outskirt of Ancud, Island of Chiloe. Tubers ellipsoid; skin purple-red; flesh white.

245847. Col. No. C–106. 'Chaulinec'. Garden on outskirt of Ancud, Island of Chiloe. Tubers round; skin flesh-pink; flesh yellow.

245848. Col. No. C–109. 'Rosada Fina'. Garden on outskirt of Ancud, Island of Chiloe. Tubers ellipsoid; skin red-purple; flesh yellow.

245849. Col. No. C–110. 'Papa Colorada'. Small farm near Puerto Eysen. Tubers round; skin red; flesh yellow. Blight-tolerant.

245850. Col. No. C–111. 'Corahila Rosada'. Farm near Puerto Eysen. Tubers round; skin flesh-pink; flesh white.

245851. Col. No. C–112. 'Colorada'. Farm between Coyhaique and Puerto Eysen. Tubers round; skin purple-red; flesh yellow.

245852. Col. No. C–113. 'Papa Morada'. Farm near Puerto Eysen. Tubers small, ellipsoid to cylindrical; skin purple; flesh white.

245853. Col. No. C–114. 'Ackersegen'. Farm near Puerto Eysen. Tubers round-ellipsoid, compressed; skin and flesh white.

245854. RIBES SATIVUM Syme. Grossulariaceae. **Garden currant.**

From Germany. Plants presented by E. Schuppe, Budessortenant, Rethmar, Hannover. Received February 10, 1958.

'Rote Sputlese'.

245855. CITROPSIS LATIALATA (Wildem.) Swing. & M. Kellerm. Rutaceae.

From the Belgian Congo. Scions collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Feb. 11, 1958.

Col. No. 21005. Botanical garden, Kisantu. Shrub to 6 ft. high.

245856. PRUNUS sp. Amygdalaceae.

From Great Britain. Scions presented by the John Innes Horticultural Institute, Bayfordbury, Hertford, England. Received February 11, 1958.

'Merton Reward'. A new cherry variety.

245857 to 245859. MICROSERIS SCAPIGERA (Forst. f.) Sch. Bip. Asteraceae.

From Australia. Plants presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received February 11, 1958.

245857. Collected in rough pasture near Hotel Kosciusko, Mount Kosciusko, New South Wales.

245858. Collected below summit of Mount Carruthers, New South Wales.

245859. Collected on Mount Ginini.

245860. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

From El Salvador. Seeds presented by the Instituto Salvadoreno Investigaciones del Cafe, Santa Tecla. Received February 11, 1958.

'Mundo Novo'.

245861. TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

From Finland. Seeds presented by the Agricultural Research Center, Department of Plant Husbandry, Tikkurila. Received February 11, 1958.

Grown at the Tammisto Plant Breeding Station.

245862 to 245921. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

From Puerto Rico. Seeds presented by the Agricultural Substation, Castaner. Received February 10, 1958.

245862 to 245867. B. A. 10.

245862. Tree No. 1083. Open pollinated.

245863. Tree No. 1083. Self pollinated.

245864. Tree No. 1084. Open pollinated.

245865. Tree No. 1084. Self pollinated.

245866. Tree No. 1086. Open pollinated.

245867. Tree No. 1086. Self pollinated.

245868 to 245875. Amphilla.

245868. Tree No. 722. Open pollinated.

245869. Tree No. 722. Self pollinated.

245870. Tree No. 727. Open pollinated.

245871. Tree No. 727. Self pollinated.

245872. Tree No. 731. Open pollinated.

245873. Tree No. 731. Self pollinated.

245874. Tree No. 733. Open pollinated.
245875. Tree No. 733. Self pollinated.
245876 to 245881. Geisha.
245876. Tree No. 1. Open pollinated.
245877. Tree No. 1. Self pollinated.
245878. Tree No. 2. Open pollinated.
245879. Tree No. 2. Self pollinated.
245880. Tree No. 5. Open pollinated.
245881. Tree No. 5. Self pollinated.
245882 to 245889. F. 840.
245882. Tree No. 1174. Open pollinated.
245883. Tree No. 1174. Self pollinated.
245884. Tree No. 1179. Open pollinated.
245885. Tree No. 1179. Self pollinated.
245886. Tree No. 1180. Open pollinated.
245887. Tree No. 1180. Self pollinated.
245888. Tree No. 1182. Open pollinated.
245889. Tree No. 1182. Self pollinated.
245890 to 245897. H. I.
245890. Tree No. 1067. Open pollinated.
245891. Tree No. 1067. Self pollinated.
245892. Tree No. 1070. Open pollinated.
245893. Tree No. 1070. Self pollinated.
245894. Tree No. 1071. Open pollinated.
245895. Tree No. 1071. Self pollinated.
245896. Tree No. 1073. Open pollinated.
245897. Tree No. 1073. Self pollinated.
245898 to 245901. H–66.
245898. Tree No. 875. Open pollinated.
245899. Tree No. 875. Self pollinated.
245900. Tree No. 877. Open pollinated.
245901. Tree No. 887. Self pollinated.
245902 to 245909. K. P. 532.
245902. Tree No. 29. Open pollinated.
245903. Tree No. 29. Self pollinated.
245904. Tree No. 31. Open pollinated.
245905. Tree No. 31. Self pollinated.
245906. Tree No. 38. Open pollinated.
245907. Tree No. 38. Self pollinated.
245908. Tree No. 43. Open pollinated.
245909. Tree No. 43. Self pollinated.
245910 to 245921. Selections from female and male parents.
245910. Caturra, Tree No. R2.T3, and Geisha, Tree R4.T1.
245911. Caturra, Tree No. R2.T3, and Geisha, Tree R4.T4.

245912. Caturra, Tree No. R2.T6, and Geisha, Tree R1.T1.

245913. Caturra, Tree No. R2.T6, and Geisha, Tree R2.T1.

245914. Caturra, Tree No. R3.T1, and Geisha, Tree R4.T1.

245915. Caturra, Tree No. N3.T1, and Geisha, Tree R4.T4.

245916. Caturra, Tree No. R3.T4, and Geisha, Tree R1.T.

245917. Caturra, Tree No. R3.T4, and Geisha, Tree R2.T1.

245918. Caturra, Tree No. R3.T4, and Geisha, Tree R3.T1.

245919. Caturra, Tree No. R3.T5, and Geisha, Tree R3.T2.

245920. Caturra, Tree No. R3.T6, and Geisha, Tree R3.T1.

245921. Caturra, Tree No. R3.T6, and Geisha, Tree R3.T2.

245922. RAUVOLFIA SERPENTINA Benth. Apocynaceae.

Java devilpepper.

From Thailand. Seeds presented by the Department of Agriculture, Bangkok. Received February 12, 1958.

Collected in Sukotai Province.

245923 to 245945.

From Chile. Tubers and seeds collected by D. S. Correll, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received February 12, 1958.

245923. DIOSCOREA sp. Dioscoreaceae.

(Tubers.)

245924. SOLANUM ETUBEROSUM Lindl. Solanaceae.

Col. No. C–143. 'Papa Diable'. Along stream above Termas de Chillan. Flowers purplish; fruits pale green with wine-colored blotch at base. (Fruits.)

245925 to 245945. SOLANUM (hybrids).

Grown at Experiment Station, Plan-Chillan.

245925 and 245926. Col. No. C–127. 'Belena'. Zapahuira, Arica. Flowers white; fruits ovoid, light green; tubers oval, flat; skin flesh-pink; flesh white.

245925. (Tuber.)

245926. (Fruits.)

245927 and 245928. Col. No. C–128. 'Chaucha'. Zapahuira, Arica. Flowers purple and pink; fruits spherical; tubers irregular; eyes deep; skin and flesh purple.

245927. (Tuber.)

245928. (Fruits.)

245929. Col. No. C–129. 'Cobiga'. Zapahuira, Arica. Flowers white; fruits large, ovoid, green, with purple-red spots. (Fruits.)

245930 and 245931. Col. No. C–130. 'Chapiquina'. Zapahuira, Arica. Flowers white to pale lavender; fruits grass-green; tubers avoid; skin purple; flesh cream-white.

245930. (Tubers.)

245931. (Fruits.)

245932 and 245933. Col. No. C–131. 'Jampa'. Zapahuira, Arica. Flowers pink-lavender; fruits spherical, green spotted with purple.

245932. (Tuber.)

245933. (Fruits.)

245934 and 245935. Col. No. C–132. 'Chapaquina'. Zapahuira, Arica. Flowers pink-purple; fruits spherical, green with purple blush.

245934. (Tubers.)

245935. (Fruits.)

245936 and 245937. Col. No. C–133. 'Rosada'. Zapahuira, Arica. Flowers white; fruits ovoid, light green; skin dark pink.

245936. (Tubers.)

245937. (Fruits.)

245938 and 245939. Col. No. C–134. 'Blanca'. Zapahuira, Arica. Flowers white; tubers small, white.

245938. (Tuber.)

245939. (Fruits.)

245940. Col. No. C–135. 'Pitehuica'. Zapahuira, Arica. Flowers white; fruits ovoid. (Fruits.)

245941. Col. No. C–136. 'Colorada'. Zapahuira, Arica. Tubers red-pink; eyes broad; flesh cream-white. (Tubers.)

245942. Col. No. C–137. 'Crisola A'. Colquecura. Tubers irregular; eyes deep; skin pink-purple; flesh white. (Tubers.)

245943. Col. No. C–138. 'Crisola B'. Colquecura. Tubers round; eyes small; skin dull pink; flesh yellow. (Tubers.)

245944. Col. No. C–139. 'Doma'. Colquecura. Tubers irregular; eyes deep; skin pink; flesh yellow.

245945. Col. No. C–140. 'Reina'. Colquecura. Tubers broadly oval, flat; skin white with pink blush; flesh yellow.

245946 to 245949.

From Mexico. Cuttings and tubers collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Feb. 14, 1958.

245946. ARUM sp. Araceae.

Col. No. 83. Finca el Carmels Comolclaco, Tabasto. Common weed. Leaves pure green; veins white.

245947 and 245948. EUPHORBIA PULCHERRIMA Willd. Euphorbiaceae. **Common poinsettia.**

245947. Col. No. 75. 'Flor de Navidad'. Near Finca la Rioja, Tapachula, Chiapas. Plant tall, multiple-branched; flowering heads red.

245948. Col. No. 76. 'Flor de Navidad Blanca'. Near Finca la Rioja, Tapachula, Chiapas. Low-growing bush covered with white bracts at some seasons after leaves have fallen.

245949. MARANTA ARUNDINACEA L. Marantaceae. **Bermuda arrowroot.**

Col. No. 81. 'Nabo'. Market, Villa Hermosa, Tabasco. Corm used for food.

245950. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

From Italy. Seeds presented by the Italian Federation of Consorgi Agrari, Rome. Received Feb. 14, 1958.

'Maliani'.

245951 to 245960. VOANDZEIA SUBTERRANEA (L.) Thours. Fabaceae.

From Southern Rhodesia. Seeds presented by the Department of Native Agriculture and Land Husbandry, Causeway, Salisbury. Received Jan. 21, 1958.

245951. 'Bereke'. Seeds reddish brown.

245952. 'Chinyimwana'. Seeds red.

245953. 'Chiswuku'. Seeds red.

245954. 'Jekenyeke'. Seeds dark cream-colored, round with a reddish purple hilum spot.

245955. 'Ndamburosi'. Seeds pale yellow-brown.

245956. 'Ndora'. Seeds cream-colored, ovoid with dark purple-black hilum spot.

245957. 'Swutu'. Seeds red.

245958. 'Tumbe'. Seeds light chestnut-brown.

245959. 'Twhodoyi'. Seeds violet-black.

245960. 'Zambezi'. Seeds bright chestnut-brown.

245961 and 245962. PRUNUS PERSICA (L.) Batsch. Amygdalaceae. **Peach.**

From Canada. Scions presented by the Experimental Farm, Department of Agriculture, Summerland, B. C. Received February 19, 1958.

245961. 'Solo'. ('J. H. Hale' × 'Veteran'). Originated at the Experimental Station, Summerland in 1933 under S–11–3. Tree self-sterile, spreading habit, bears heavily, requires heavy thinning, moderately hardy; fruit large, well colored, remains on trees several days after maturity; flesh yellow, very firm to firm, juicy, quality fair, semifreestone; skin susceptible to mildew, tends to adhere to flesh. Canning quality fine.

245962. 'Spotlight'. ('Veteran' × 'Rochester'). Originated at the Experimental Station, Summerland in 1934. Tree self-sterile, upright when young; bears heavily; requires heavy thinning; hardy. Fruit medium size, roundish; skin smooth, orange-yellow, splashed with red; flesh yellow, firm, quality good, semifreestone. Canning quality satisfactory.

245963 to 245965. VITIS (hybrids.). Vitaceae. **Grape.**

From Yugoslavia. Cuttings presented by Dusan Stankovic, Poljoprivredni Fakultet, Zavod za Vocarstvo, Zemun. Received February 19, 1958.

245963. 'Beli Prokupac'.

245964. 'Prokupac'.

245965. 'Smederevka'.

245966 to 245968.

From Mexico. Seeds collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received February 19, 1958.

245966. CARICA sp. Caricaceae.

Col. No. 82. Near Villa Hermosa, Tabasco. Plant vigorous, wild, bears heavily; fruits size of golf ball. A small percentage of flowers are male.

245967. ELETTARIA CARDAMOMUM (L.) Maton Zingiberaceae. **Cardamom.**

Col. No. 77. Finca La Rioja, Tapachula, Chiapas.

245968. SOLANUM sp. Solanaceae.

Col. No. 80. 'Berenjena'. Market, Villa Hermosa, Tabasco. Yellow fruits sold as ornaments.

245969 to 245975.

From Australia. Seeds presented by George H. Hewitt, Bellingen, New South Wales. Received February 19, 1958.

245969. ANOPTERUS MACLEAYANUS F. Muell. Escalloniaceae.

245970. BUCKINGHAMIA CELSISSIMA F. Muell. Proteaceae.

245971. CODONOCARPUS ATTENUATUS (Hook.) H. Walt. Phytolaccaceae.

245972. EUCALYPTUS sp. Myrtaceae.

245973. HAKEA ARBORESCENS R. Br. Proteaceae.

245974. JAGERA PSEUDORHUS Radlk. Sapindaceae.

245975. RHODOSPHAERA RHODANTHEMA (F. Muell.) Engl. Anacardiaceae.

245976 to 245981.

From the British West Indies. Plant material presented by the Citrus Company of Jamaica Ltd., Kingston, Jamaica. Received February 19, 1958.

245976. AGAVE HARRISII Trel. Amaryllidaceae.

(Plants.)

245977. AGAVE sp.

A. 8. (Bulbils.)

245978. FURCRAEA sp. Amaryllidaceae.

F. A. (Bulbils.)

245979. FURCRAEA sp.

F. C1. (Plants.)

245980. FURCRAEA sp.

F. C2. (Bulbils.)

245981. FURCRAEA sp.

F. D. (Plants.)

245982 to 246000.

From India. Cuttings presented by the Director, Sugarcane Breeding Institute, Coimbatore. Received February 20, 1958.

245982 to 245999. SACCHARUM OFFICINARUM L. Poaceae. **Sugarcane.**

245982. Halyal Rasaeali.
245983. B. O. 24.
245984. C. O. 214.
245985. C. O. 475.
245986. C. O. 625.
245987. C. O. 740.
245988. C. O. 775.
245989. C. O. 798.
245990. C. O. 851.
245991. C. O. 957.
245992. H. M. 645.
245993. H. M. 661.
245994. S. E. S. 315.
245995. S. E. S. 316.
245996. S. E. S. 317.
245997. S. E. S. 341.
245998. S. E. S. 521.
245999. S. E. S. 528.

246000. SACCHARUM SPONTANEUM L.

'Cehra-Bon'.

246001 to 246017.

From the Belgian Congo. Plants, except where noted, collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received February 20, 1958.

Collected at the Kisantu Botanic Garden, Kisantu, unless otherwise noted.

246001. CEROPEGIA ROBYNSIANA Werderm. Asclepiadaceae. Col. No. 21025. Jardin de Essaid de la Mission de Kisantu. Ornamental vine. (Cuttings.)

246002. (Undetermined.)

Col. No. 21045. Jardin de Essais de la Mission de Kisantu. Small shrub; fruit a small red berry. (Seeds.)

246003. CITRUS MYRTIFOLIA Rafin. Rutaceae.

Col. No. 21029. Jardin de Essais de la Mission de Kisantu. Small tree. (Scions.)

246004. SANSEVIERIA ARBORESCENS Cornu. Liliaceae.

Col. No. 21020. (Cuttings.)

246005. SANSEVIERIA CANICULATA Carr.

Col. No. 21023.

246006. SANSEVIERIA CYLINDRICA Bojer

Col. No. 21015. Plant terrestrial; leaves large, terete.

246007. SANSEVIERIA sp.

Col. No. 21018.

246008. SANSEVIERIA FASCIATA Ger. & Labr.

Col. No. 21022. (Cuttings and root.)

246009. SANSEVIERIA GRANDICUSPIS Haw.

Col. No. 21017.

246010. SANSEVIERIA LIBERICA Ger. & Lab.

Col. No. 21024. Jardin de Essais de la Mission de Kisantu. (Seeds & Plants.)

246011. SANSEVIERIA LONGIFLORA Sims.

Col. No. 21021.

246012. SANSEVIERIA STUCKEYI Godef.-Leb.

Col. No. 21016. Plant terrestrial; leaves terete.

246013. SANSEVIERIA SUBSPICATA Baker

Col. No. 21019.

246014. CARALLUMA sp. Asclepiadaceae.

Col. No. 21025 A. Jardin de Essais de la Mission de Kisantu. (Cuttings.)

246015. CARALLUMA sp.

Col. No. 21026. Jardin de Essais de la Mission de Kisantu.

246016. STAPELIA sp.

Col. No. 21027. Jardin de Essais de la Mission de Kisantu.

246017. VANILLA LUJAE DeWild. Orchidaceae.

Col. No. 21047. Jardin de Essais de la Mission de Kisantu. Vine. (Cutting.)

246018. CYDONIA OBLONGA Mill. Malaceae. **Quince.**

From Great Britain. Rooted layers and graftsticks presented by the East Malling Research Station, East Malling, Kent, England. Received February 20, 1958.

'Portugal Quince E'.

246019. SACCHARUM OFFICINARUM L. Poaceae. **Sugarcane.**

From India. Cuttings presented by the Sugarcane Breeding Institute, Coimbatore. Received February 20, 1958.

'S. E. S. 201'.

246020. PROTEA sp. Proteaceae.

From Australia. Seeds presented by Edward Pollock, Parke, New South Wales. Received February 19, 1958.

Originally from Tukuyu, Tanganyika.

246021. MERRILLIA CALOXYLON (Ridley) Swingle Rutaceae. **Katinga.**

From Malaya. Seeds presented by the Botanic Gardens, Singapore. Received February 20, 1958.

For rootstock studies with *Citrus* sp.

246022 to 246028.

From Mexico. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received February 21, 1958.

246022. AGAVE COLLINA Greenm. Amaryllidaceae.

Ogden Col. No. 51177. Tecolotlan near road from Cocula to Tecolotlan, Jalisco. Stem short; leaves blue-green, slightly glaucous, to 1.1 meters long; inflorescence to 4.5 meters high.

246023. AGAVE CUPREATA Trel.

Col. No. 10476. From Barrancas. Plant multileaved, inflexed, forming balled rosettes; panicle 8 meters high; flowers yellow.

246024. AGAVE GOLDMANIANA Trel.

Col. No. 10355. South of Tinaja Yubai, Idria-Cardon Forest. Plant large caulescent to 1.5 meters high; leaves green; flowers yellow.

246025. AGAVE LOPHANTHA Schiede **Crested agave.**

Ogden Col. No. 51111. Road over Sierra Madre to Jaumave, Tamaulipas. Acaulescent; inflorescence spicate, to 5 meters high.

246026. AGAVE MAPISAGA Trel.

Col. No. 12294. Lagunilla, northwest of Pachuca, Hidalgo. Plant large, maguey; leaves long; panicle 8 meters high, laterals long.

246027. AGAVE sp.

Ogden Col. No. 51199. Six meters north of Pitayo along highway between Acatlan and Izucar de Matamoros. Plant acaulescent; leaves blue-green to gray-green, glaucous, to 1 meter long.

246028. YUCCA PENINSULARIS McKelvey Liliaceae.

Col. No. 16703. 34 km. east of Rosario, Baja California.

246029 and 246030.

From Chile. Seeds collected by D. S. Correll, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received February 24, 1958.

246029. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

Col. No. C–144. 'Sandia'. Chillan. Melon small, very sweet.

246030. GREIGIA sp. Bromeliaceae.

Col. No. C–108. 'Chupon'. Chiloe Island. Plant tall; flower heads similar to artichokes.

246031 and 246032.

From Japan. Seeds presented by an unkown donor. Received Feb. 24, 1958.

246031. MISCANTHUS JAPONICUS (Thunb.) Oerst. Poaceae.
Japanese silvergrass.

246032. SACCHARUM NARENGA (Nees) Wall ex Hack. Poaceae. **Sugarcane.**

246033 to 246037. GOSSYPIUM (hybrids). Malvaceae. Cotton.

From Southern Rhodesia. Seeds presented by the Gatooma Research Station, Salisbury. Received Feb. 24, 1958.

246033. 'Albar'.

246034. A5851.

246035. BP52.

246036. Mu8A.

246037. 9L36.

246038 to 246043.

From Mexico. Tubers collected by Bernice G. Schubert, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Feb. 24, 1958.

Collected in Yucatan.

246038. DIOSCOREA FLORIBUNDA Mart. & Gal. Dioscoreaceae. **Yam.**

Col. No. 1617. Merida, Progreso road. Quadrate, rhizomatous vine; leaves mottled; rhizome flesh pale yellow.

246039. DIOSCOREA sp.

Col. No. 1600 Beyond Hucnucma along roadside, Merida-Sisal. Vine, rhizomes flat; fruit small rhizome flesh yellow.

246040. DIOSCOREA sp.

Col. No. 1615. Merida, Progreso road. Flowers sterile; rhizome pale yellow-fleshed.

246041. DIOSCOREA POLYGONOIDES Humb. & Bonpl. **Yam.**

Col. No. 1618. Near Hucnucma. Vine; rhizomes flat; fruit small.

246042. DIOSCOREA sp.

Col. No. 1619. Merida, Progreso road. Vine; rhizome pale-yellow flesh.

246043. DIOSCOREA sp.

Col. No. 1620. Near Hucnucma. Vine; rhizome flesh white; fruit large.

246044 and 246045. PRUNUS CERASUS Blume Amygdalaceae. **Sour cherry.**

From Israel. Seeds presented by the Ministry of Agriculture, Department of Horticulture, Hakirya. Received February 24, 1958.

246044. Sour type.

246045. Sweet type.

246046 to 246119. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae. **Cabbage.**

From the Netherlands. Seeds presented by Instituut voor de Veredeling Van Tuinbouwgewassen, Wageningen. Received February 24, 1958.

246046 to 246055. From C. Beemsterboer, Warmenhuizen.

246046 to 246050. Red. Original 'Langendijk'.

246046. No. 57004. 'Early-red No. 61'.

246047. No. 57005. 'Early extra Fruko No. 61a'.

246048. No. 57006. Autumn.

246049. No. 57007. 'Late Winter Storage No. 58'.

246050. No. 57008. 'Write Out No. 59'.

246051 to 246055. Savoy. Original 'Langendijk'.

246051. No. 57016. 'Yellow-green Extra Early No. 64'.

246052. No. 57017. 'Late Autumn No. 63'.

246053. No. 57018. 'Dark-green Late Autumn No. 67'.

246054. No. 57019. 'Yellow-green Late Winter Storage No. 62'.

246055. No. 57020. 'King of the Winter'.

246056 to 246058. From Gebr. Broersen's Zaadteelt and Zaadhandel, Harenkarspel.

246056 and 246057. Red. Original 'Langendijk'.

246056. No. 57009. No. 24. 'Allervroegste'.

246057. No. 57010. No. 34. 'Herfst'.

246058. Savoy. Original 'Grote Late Herfstgroene'. No. 57021. No. 41a.

246059 to 246068. From Sluis en Groot, Enkhuizen.

246059 to 246061. Red.

246059. No. 57011. 'Red Acre'.

246060. No. 57012. 'Red Rock'.

246061. No. 57013. 'Holland Winter'.

246062 to 246068. Savoy.

246062. No. 57022. 'S. & G.'s Early Green Pointed'.

246063. No. 57023. 'Early Season Green Pointed'.

246064. No. 57024. 'Advent'.

246065. No. 57025. 'American Drumhead'.

246066. No. 57026. 'Diamond Mid Early'.

246067. No. 57027. 'Green Ball'.

246068. No. 57028. 'Long Island'.

246069 to 246083. From Vilmorin Andrieux, Paris, France.

246069 to 246071. Red.

246069. No. 57014. 'Rouge Fence Hatif'.

246070. No. 57015. 'Rouge Tete-de-Negre'.

246071. No. 57016. 'Rouge Gros'.

246072 to 246083. Savoy.

246072. No. 57029. 'Pointu perce-Neige'.

246073. No. 57030. 'Coeur-de-boeuf Frise'.

246074. No. 57031. 'Tete-de-fer'.

246075. No. 57032. 'Tardif de Mars'.

246076. No. 57033. 'Petit Hatif de Dieppe'.

246077. No. 57034. 'Court Hatif'.

246078. No. 57035. 'Tres Hatif de la Saint-Jean'.

246079. No. 57036. 'Hatif d'Aubervilliers'.

246080. No. 57037. 'Gros des Vertus'.

246081. No. 57038. 'De Lorient'.

246082. No. 57039. 'De Pontoise'.

246083. No. 57040. 'Roi-de l'hiver'.

246084 to 246105. From Bundessortenamt, Rethmar, Germany.

246084 to 246089. Red.

246084. No. 58001. 'Erstrot GSG'. Marne.

246085. No. 58002. 'Marner Fruhrot GZG'. Marne.

246086. No. 58003. 'Dieners Fruhrotkohl'.

246087. No. 58004. 'Sommerrot GZG'. Marne.

246088. No. 58005. 'Mohrenkopf'.

246089. No. 58006. 'Dauerrot GZG'. Marne.

246090 to 246105. Savoy.

246090. No. 58001. 'Fischenicher Advent'.

246091. No. 58002. 'Endenicher Advent'.

246092. No. 58003. 'Sannmanns Ochsenwerder Fruher'.

246093. No. 58004. 'Fruhwirsing Praeco HKZ'.

246094. No. 58005. 'Vorbote'.

246095. No. 58006. 'Fruhkopf GZG'. Marne.

246096. No. 58007. 'Sommerwirsing GZG'. Marne.

246097. No. 58008. 'Hammer'.

246098. No. 58009. 'Dr. Neurers Gruner'.

246099. No. 58010. 'Schupps Winterfeldwirsing'.

246100. No. 58011. 'Heuers Calenberger' (dark green).

246101. No. 58012. 'Blaugruner Winter'.

246102. No. 58013. 'Friedberger'.

246103. No. 58014. 'Vertus'.

246104. No. 58015. 'Ditmarscher Herbst'.

246105. No. 58016. 'Dauerwirsing'.

246106 to 246119. From West Friesland, Wijdenes.

246106 to 246109. Red Original 'Volggroeide Kolen'.

246106. No. 58008. 'Langendijker Vroege'.

246107. No. 58009. 'Langendijker Herfst'.

246108. No. 58010. 'Langerdijker Bewaar'.

246109. No. 58011. 'Zenith'.

246110 to 246119. Savoy. Original 'Van Volgroeide Kolen'.

246110. No. 58017. 'Bonner Advent'.

246111. No. 58018. 'Eisenkopf'.

246112. No. 58019. 'Pontoise'.

246113. No. 58020. 'Vertus'.

246114. No. 58021. 'Langendijker Vroege Herfstgroene'.

246115. No. 58022. 'Late Herfstgroene'.

246116. No. 58023. 'Winterkoning'.

246117. No. 58024. 'Groene Putjes'.

246118. No. 58025. 'Bloemendaalse Gele'.

246119. No. 58026. 'Langendijker Gele Bewaar'.

246120. OXYTENANTHERA ABYSSINICA (A. Rich.) Munro Poaceae.

From Nyasaland. Seeds presented by the Agricultural Department, Zomba. Received February 25, 1958.

When young, seeds almost every year; when mature, seldom produces seeds.

246121. CENTROSEMA VIRGINIANUM (L.) Benth. Fabaceae.

From the United States. Seeds presented by B. Y. Morrison, Pass Christian, Mississippi. Received February 25, 1958.

246122. FLEMINGIA MACROPHYLLA (Willd.) Kuntze. Fabaceae.

From Malaya. Seeds presented by the Department of Agriculture, Federation of Malaya, Kuala Lumpur. Received February 25, 1958.

246123. CAPSICUM FRUTESCENS L. Solanacae. **Redpepper.**

From Mexico. Seeds held at the Regional Plant Introduction Station, Experiment, Georgia. Numbered February 27, 1958.

'Chile Excuchito'. Collected about 1935 at La Cienega, Oaxaca.

Highly resistant to nematodes.

246124. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

From Libya. Seeds presented by the United States Operations Mission, Tripoli. Received February 28, 1958.

Superior to American varieties in comparative tests at Vocational Agricultural School in Libya. Withstands close cutting and cultural practices in common use in Libya.

246125 to 246128.

From the Belgian Congo. Collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Feb. 25, 1958.

All from Forest Reserve, Institut National pour l'Etude Agronomique du Congo Belge Station, Yangambi.

246125. CITROPSIS ARTICULATA (Willd.) Swing. & M. Kell. Rutaceae.

Col. No. 21065. Small tree or shrub; spiny rachis of leaf strongly alate. (Scions.)

246126. CITROPSIS GABUNENSIS (Engl.) Swing. & M. Kell.

Col. No. 21066. Small, spiny tree or shrub; petiole not strongly alate. (Scions.)

246127. CYNOMETRA CAULIFLORA L. Caesalpiniaceae.

Col. No. 21077. Pods edible. (Seed.)

246128. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. **Sweetpotato.**

Col. No. 21073. Ground covering vine, producing thickened roots above ground; flesh pale yellow. (Tubers.)

246129 to 246132.

From Madagascar. Seeds presented by Agnes England, American Mission, Fort Dauphin. Received Feb. 25, 1958.

246129. DOLICHOS LABLAB L. Fabaceae. **Hyacinth-bean.**

246130. PHASEOLUS AUREUS Roxb. Fabaceae. **Mung bean.**

246131 and 246132. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

246131. 'Balioka II'.

246132. 'Makhafaly'.

246133 and 246134.

From France. Seedlings presented by Le Page & Company, Angers. Received February 25, 1958.

246133. PYRUS BETULAEFOLIA Bunge Malaceae. **Birchleaf pear.**

246134. PYRUS COMMUNIS L. **Common pear.**

246135 to 246330.

From Great Britain. Plants presented by the Royal Botanic Garden, Edinburgh, Scotland. Received December 10, 1957. Numbered February 25, 1958.

245135 and 246136. VIBURNUM ATROCYANEUM C. B. Clarke Caprifoliaceae.

246135. No. 1336. Royal Botanic Garden, Kew, England.

246136. No. 1337. Royal Botanic Garden, Edinburgh, Scotland.

246137 to 246155. VIBURNUM BETULIFOLIUM Batal.

246137. No. 1338. Nymans Garden, Handcross, Sussex, England.

246138. No. 1339. Nymans Garden, Handcross, Sussex, England.

246139. No. 1340. The Gardens, Wakehurst, Ardingly, Sussex, England.

246140. No. 1341. The Gardens, Wakehurst, Ardingly, Sussex, England.

246141. No. 1342. Hillier & Sons, Winchester, England.

246142. No. 1343. Hillier & Sons, Winchester, England.

246143. No. 1344. Nymans Garden, Handcross, Sussex, England.

246144. No. 1345. Nymans Garden, Handcross, Sussex, England.

246145. No. 1346. Royal Botanic Garden, Kew, England.

246146. No. 1347. National Botanic Garden, Dublin, Ireland, ex Wilson W238A.

246147. No. 1348. Royal Botanic Garden, Edinburgh, Scotland, ex Forest F10575.

246148. No. 1349. Royal Botanic Garden, Edinburgh, Scotland, ex Farrer 367.

246149. No. 1350. Royal Botanic Garden, Edinburgh, Scotland, ex Farrer 367.

246150. No. 1572. Hillier & Sons, Winchester, England.

246151. No. 1573. E. H. M. Cox, Glendoick, Perth, Scotland.

246152. No. 1351. 'Aurantiacum'. Royal Botanic Garden, Edinburgh, Scotland.

246153 to 246155.

246153. No. 1353. Birch Farm Nursery, Gravetye, East Grinstead, Sussex, England.

246154. No. 1354. Royal Botanic Garden, Kew, England.

246155. No. 1355. Royal Botanic Garden, Edinburgh, Scotland.

246156. VIBURNUM × BODNANTENSE Aberc.

No. 1357. (*V. fragrans* × *V. grandiflorum*). 'Dawn'. Bodnant, Tal-y-Cafn. Denbigshire, N. Wales.

246157. VIBURNUM BRACTEATUM Rehd.

No. 1358. Royal Botanic Garden, Kew, England.

246158. VIBURNUM BREVIPES Rehd.

No. 1359. Royal Botanic Garden, Edinburgh, Scotland.

246159. VIBURNUM BUDDLEIFOLIUM C. H. Wright **Woolly viburnum.**

No. 1360. Exbury Gardens, Exbury, Hampshire, England.

246160. VIBURNUM BUREJAETICUM Regel & Herd. **Manchurian viburnum.**

No. 1362. Royal Botanic Garden, Edinburgh, Scotland.

246161 and 246162. VIBURNUM × BURKWOODII Burkwood & Skipwith

246161. No. 1363. C. W. Christie-Miller, Henley-on-Thames, Oxford, England. (*V. carlesii* × *V. utile*).

246162. No. 1364. C. W. Christi-Miller, Henley-on-Thames, Oxford, England.

246163 to 246165. VIBURNUM CARLESII Hemsl. **Fragrant viburnum.**

246163. No. 1366. Myddelton House, Enfield, Herts, England.

246164. No. 1367. Kiftsgate Court, Campden, Glossop, England. (Seed from Formosa).

246165. No. 1368. Royal Botanic Garden, Edinburgh, Scotland.

246166. VIBURNUM × CHENAULTII Chen.

No. 1371. (*V. carlesii* × *V. macrocephalum*). Royal Botanic Garden, Kew, England.

246167 and 246168. VIBURNUM CINNAMOMIFOLIUM Rehd.

246167. No. 1373. Oxford Botanic Garden, Oxford Univ., England.

246168. No. 1374. The Gardens, Wakehurst, Ardingly, Sussex, England.

246169 to 246172. VIBURNUM COTINIFOLIUM D. Don.

246169. No. 1379. Borde Hill, Haywards Heath, Sussex, England.

246170. No. 1380. The Gardens, Wakehurst, Ardingly, Sussex, England.

246171. No. 1381. Royal Botanic Garden, Kew, England.

246172. No. 1383. Royal Botanic Garden, Edinburgh, Scotland.

246173 and 246174. VIBURNUM CYLINDRICUM Hamilt.

246173. No. 1384. Exbury Gardens, Exbury, Hampshire, England.

246174. No. 1385. Royal Botanic Garden, Edinburgh, Scotland.

246175 to 246177. VIBURNUM DASYANTHUM Rehder

246175. No. 1386. Royal Botanic Garden, Edinburgh, Scotland.

246176. No. 1387. Royal Botanic Garden, Edinburgh, Scotland.

246177. No. 1389. Royal Botanic Garden, Edinburgh, Scotland, ex Wilson W467.

246178 to 246181. VIBURNUM DAVIDII Franch.

246178. No. 1390. Royal Botanic Garden, Edinburgh, Scotland.

246179. No. 1391. The Gardens, Wakehurst, Ardingly, Sussex, England.

246180. No. 1392. 'Femina'. National Botanic Garden, Dublin, Ireland.

246181. No. 1393. 'Femina'. Royal Botanic Garden, Edinburgh, Scotland.

246182 and 246183. VIBURNUM DILATATUM Thunb. **Linden viburnum.**

246182. No. 1394. Royal Horticultural Society Garden, Wisley, England.

246183. No. 1395. Exbury Gardens, Exbury, Hampshire, England.

246184 and 246185. VIBURNUM EROSUM Thunb.

246184. No. 1398. Royal Botanic Garden, Edinburgh, Scotland, ex Yii 15163.

246185. No. 1399. Royal Botanic Garden, Edinburgh, Scotland.

246186. VIBURNUM EROSUM var. TAQUETII (Levl.) Rehd.

No. 1400. Royal Botanic Garden, Edinburgh, Scotland.

246187 to 246189. VIBURNUM ERUBESCENS Wall. ex DC.

246187. No. 1403. Borde Hill, Haywards Heath, Sussex, England.

246188. No. 1404. Exbury Gardens, Exbury, Hampshire, England.

246189. No. 1575. Hillier & Sons, Winchester, England.

246190 and 246191. VIBURNUM FLAVESCENS W. W. Smith

246190. No. 1406. Royal Horticultural Society Garden, Wisley, England.

246191. No. 1407. Royal Botanic Garden, Edinburgh, Scotland.

246192. VIBURNUM FOETENS Decne.

No. 1571. Norman G. Hadden, Underway, W. Porlock, Somerset, England.

246193 to 246196. VIBURNUM FOETIDUM Wall.

246193. No. 1410. The Gardens, Wakehurst, Ardingly, Sussex, England.

246194. No. 1411. Exbury Gardens, Exbury, Hampshire, England.

246195. No. 1412. Exbury Gardens, Exbury, Hampshire, England.

246196. No. 1414. Myddelton House, Enfield, Herts, England.

246197 to 246203. VIBURNUM FRAGRANS Bunge

246197. No. 1415. Myddelton House, Enfield, Herts, England.

246198. No. 1416. Myddelton House, Enfield, Herts, England.

246199. No. 1417. Nymans Garden, Handcross, Haywards Heath, Sussex, England.

246200. No. 1418. Borde Hill, Haywards Heath, Sussex, England.

246201. No. 1420. Royal Botanic Garden, Edinburgh, Scotland.

246202. No. 1421. Collingwood Ingram, Kent, England.

246203. No. 1422. 'Roseum'. Geo. Jackman & Son, Woking, Surrey, England.

246204 to 246206. VIBURNUM GRANDIFLORUM Wall.

246204. No. 1426. Crown Estate Office, Windsor Great Park, Windsor, Berks, England.

246205. No. 1427. Bodnant, Tal-y-Cafn, Denbigshire, N. Wales.

246206. No. 1576. R. C. Notcutts, Ltd., Woodbridge, Suffolk, England.

246207 and 246208. VIBURNUM HARRYANUM Rehd.

246207. No. 1432. Exbury Gardens, Exbury, Hamsphire, England.

246208. No. 1433. Exbury Gardens, Exbury, Hampshire, England.

246209 to 246216. VIBURNUM HENRYI Hemsl.

246209. No. 1434. Cambridge Botanical Garden, Cambridge, England.

246210. No. 1435. Borde Hill, Haywards Heath, Sussex, England.

246211. No. 1436. Borde Hill, Haywards Heath, Sussex, England.

246212. No. 1437. The Gardens, Wakehurst, Ardingly, Sussex, England.

246213. No. 1438. The Gardens, Wakehurst, Ardingly, Sussex, England.

246214. No. 1439. The Gardens, Wakehurst, Ardingly, Sussex, England.

246215. No. 1440. The Gardens, Wakehurst, Ardingly, Sussex, England.

246216. No. 1441. National Botanic Garden, Dublin, Ireland.

246217. VIBURNUM sp.

No. 1442. (*V. henryi* × *V. erubescens*). 'Winton'. Hillier & Sons, Winchester, England.

246218 and 246219. VIBURNUM HUPEHENSE Rehd. **Hupeh viburnum.**

246218. No. 1443. The Gardens, Wakehurst, Ardingly, Sussex, England.

246219. No. 1577. Hillier & Sons, Winchester, England.

246220 to 246223. VIBURNUM ICHANGENSE (Hemsl.) Rehd.

246220. No. 1447. Royal Horticultural Society Garden, Wisley, England.

246221. No. 1448. C. W. Christi-Miller, Henley-on-Thames, Oxford, England.

246222. No. 1449. Royal Botanic Garden, Edinburgh, Scotland, ex Wilson W221.

246223. No. 1450. Royal Botanic Garden, Edinburgh, Scotland.

246224. VIBURNUM JAPONICUM (Thunb.) Spreng.

No. 1451. The Gardens, Wakehurst, Ardingly, Sussex, England.

246225 to 246228. VIBURNUM KANSUENSE Batal.

246225. No. 1452. Royal Horticultural Society Garden, Wisley, England.

246226. No. 1453. Crown Estate Office, Windsor Great Park, Windsor, Berks, England, ex Ludlow & Sheriff 13248.

246227. No. 1454. Knightshays, Tiverton, Cornwall, England. Berks, England, ex Ludlow & Sheriff 15800.

246228. No. 1455. Knightshays, Tiverton, Cornwall, England.

246229 to 246241. VIBURNUM PLICATUM. Thunb. **Wayfaring-tree.**

246229. No. 1456. Kenneth Beckett, Brighton, Sussex, England.

246230. No. 1457. Kenneth Beckett, Brighton, Sussex, England.

246231. No. 1460. Kenneth Beckett, Brighton, Sussex, England.

246232. No. 1461. Kenneth Beckett, Brighton, Sussex, England.

246233. No. 1462. Kenneth Beckett, Brighton, Sussex, England.

246234. No. 1463. Kenneth Beckett, Brighton, Sussex, England.

246235. No. 1465. Kenneth Beckett, Brighton, Sussex, England.

246236. No. 1466. Kenneth Beckett, Brighton, Sussex, England.

246237. No. 1467. Royal Botanic Garden, Edinburgh, Scotland.

246238. No. 1468. Royal Botanic Garden, Edinburgh, Scotland.

246239. No. 1578. 'Macrophyllum'. Royal Botanic Garden, Kew, England

246240. No. 1469. Royal Botanic Garden, Kew, England.

246241. No. 1470. Royal Botanic Garden, Edinburgh, Scotland.

246242. VIBURNUM × RHYTIDOPHYLLOIDES Suringer

No. 1471. (*V. rhytodophyllum* × *V. lantana*). National Botanic Garden, Dublin, Ireland.

246243 to 246246. VIBURNUM LOBOPHYLLUM Graebn.

246243. No. 1472. Hillier & Sons, Winchester, England.

246244. No. 1473. Exbury Garden, Exbury, Hampshire, England.

246245. No. 1474. Royal Botanic Garden, Edinburgh, Scotland, ex Kingdom Ward, K. W. 4125.

246246. No. 1475. Royal Botanic Garden, Edinburgh, Scotland, ex Hers 2781.

246247. VIBURNUM MOLLE Michx.

No. 1478. Royal Botanic Garden, Edinburgh, Scotland.

246248. VIBURNUM MONGOLICUM (Pall.) Rehd.

No. 1479. Cambridge Botanic Garden, Cambridge University, England.

246249. VIBURNUM NUDUM L.

No. 1481. National Botanic Garden, Dublin, Ireland.

246250 and 246251. VIBURNUM ODORATISSIMUM Ker-Gawl. **Sweet viburnum.**

246250. No. 1482. Cambridge Botanic Garden, Cambridge University, England.

246251. No. 1569. Exbury Gardens, Exbury, Hampshire, England.

246252 to 246257. VIBURNUM OPULUS L. **European cranberrybush.**

246252. No. 1579. Kenneth Beckett, Brighton, Sussex, England.

246253. No. 1483. 'Aureum'. Royal Botanic Garden, Edinburgh, Scotland.

246254. No. 1485. 'Compactum'. Geo. Jackman & Son, Woking, Surrey, England.

246255. No. 1486. Geo. Jackman & Son, Woking, Surrey, England.

246256. No. 1487. 'Nanum'. Royal Botanic Garden, Kew, England.

246257. No. 1484. 'Xanthocarpum'. Royal Botanic Garden, Edinburgh, Scotland.

246258. VIBURNUM (hybrid).

No. 1365. 'Park Farm Hybrid'. Royal Botanic Garden, Edinburgh, Scotland.

246259. VIBURNUM EDULE (Michx.) Raf.

No. 1490. The Gardens, Wakehurst, Sussex, England.

246260. VIBURNUM PARVIFOLIUM Hayata

No. 1480. Royal Horticultural Society Garden, Wisely, England.

246261 and 246262. VIBURNUM PLICATUM Thunb. **Japanese snowball.**

246261. No. 1491. Mount Usher, Asheford, Ireland.

246262. No. 1492. Royal Botanic Garden, Edinburgh, Scotland.

246263 to 246268. VIBURNUM PLICATUM f. TOMENTOSUM (Thunb.) Rehd.

246263. No. 1495. Nymans Garden, Handcross, Haywards Heath, Sussex, England.

246264. No. 1496. Nymans Garden, Handcross, Haywards Heath, Sussex, England.

246265. No. 1497. Exbury Gardens, Exbury, Hampshire, England.

246266. No. 1523. 'Lanarth'. National Botanic Garden, Dublin, Ireland.

246267. No. 1527. 'Rowallane'. Rowallane, Saintfield, N. Ireland.

246268. No. 1568. 'Rowallane'. Rowallane, Saintfield, N. Ireland.

246269. VIBURNUM PROPINQUUM Hemsl.

No. 1498. 'Lanceolatum' Hillier & Sons, Winchester, England.

246270. VIBURNUM DENTATUM L.

No. 1499. Royal Botanic Garden, Kew, England.

246271. VIBURNUM × RHYTIDOPHYLLOIDES Suringer

No. 1500. (*V. ryhtidophyllum* × *V. lantana*). Royal Botanic Garden, Kew, England.

246272 to 246278. VIBURNUM RHYTIDOPHYLLUM Hemsl. **Leatherleaf viburnum.**

246272. No. 1501. Myddelton House, Enfield, Herts, England.

246273. No. 1502. Myddelton House, Enfield, Herts, England.

246274. No. 1503. The Gardens, Wakehurst, Ardingly, Sussex, England.

246275. No. 1504. Exbury Gardens, Exbury, Hampshire, England.

246276. No. 1505. Royal Botanic Garden, Edinburgh, Scotland.

246277. No. 1580. Crathes Castle, Crathes, Kincaidineshire, Scotland.

246278. No. 1506. Borde Hill, Haywards Heath, Sussex, England.

246279 and 246280. VIBURNUM SARGENTII Koehne **Sargent cranberrybush.**

246279. No. 1508. Myddelton House, Enfield, Herts, England.

246280. No. 1509. Royal Botanic Garden, Edinburgh, Scotland, ex Wilson W281.

246281. VIBURNUM SCHENSIANUM Maxim.

No. 1510. Royal Botanic Garden, Kew, England.

246282 and 246283. VIBURNUM SIEBOLDI Miquel **Siebold viburnum.**

246282. No. 1511. The Gardens, Wakehurst, Ardingly, Sussex, England.

246283. No. 1512. Royal Botanic Garden, Edinburgh, Scotland.

246284 and 246285. VIBURNUM STELLULATUM Wall. ex DC.

246284. No. 1514. National Botanic Garden, Dublin, Ireland.

246285. No. 1515. Royal Botanic Garden, Edinburgh, Scotland.

246286 to 246289. VIBURNUM TINUS L. **Laurustinus.**

246286. No. 1476. Nymans Garden, Handcross, Haywards Heath, Sussex, England.

246287. No. 1567. Malahide Castle, Ireland.

246288. No. 1583. Hillier & Sons, Winchester, England.

246289. No. 1517. 'Roseum'. Geo. Jackman & Son, Woking, Surrey, England.

246290 to 246293. VIBURNUM PLICATUM Thunb. **Japanese snowball.**

246290. No. 1518. National Botanic Garden, Dublin, Ireland, ex Wilson W234A.

246291. No. 1519. Myddelton House, Enfield, Herts, England.

246292. No. 1520. National Botanic Garden, Dublin, Ireland, ex Wilson W231.

246293. No. 1521. Royal Botanic Garden, Edinburgh, Scotland.

246294 to 246296. VIBURNUM UTILE Hemsl. **Service viburnum.**

246294. No. 1528. Borde Hill, Haywards Heath, Sussex, England.

246295. No. 1529. The Gardens, Wakehurst, Ardingly, Sussex, England.

246296. No. 1530. Royal Botanic Garden, Edinburgh, Scotland.

246297 to 246300. VIBURNUM VEITCHII C. H. Wright **Veitch viburnum.**

246297. No. 1557. Exbury Gardens, Exbury, Hampshire, England.

246298. No. 1558. Royal Botanic Garden, Kew, England, ex Wilson 1742.

246299. No. 1560. National Botanic Garden, Dublin, Ireland, ex Wilson W1288.

246300. No. 1561. Royal Botanic Garden, Edinburgh, Scotland, ex Wilson W1288.

246301 and 246302. VIBURNUM × VETTERI Zabel

(*V. lentago* × *V. nudum*).

246301. No. 1555. Cambridge Botanic Garden, Cambridge, England.

246302. No. 1556. The Gardens, Wakehurst, Ardingly, Sussex, England.

246303. VIBURNUM WILSONII Rehd.

No. 1562. Royal Botanic Garden, Edinburgh, Scotland.

246304 and 246305. VIBURNUM WRIGHTII Miquel **Wright viburnum.**

246304. No. 1563. The Gardens, Wakehurst, Ardingly, Sussex, England.

246305. No. 1565. Royal Botanic Garden, Edinburgh, Scotland.

246306. VIBURNUM sp.

No. 1405. 'F'. National Botanic Garden, Dublin, Ireland.

246307. VIBURNUM sp.

No. 1431. Royal Botanic Garden, Kew, England.

246308. VIBURNUM sp.

No. 1532. The Gardens, Wakehurst, Ardingly, Sussex, England.

246309. VIBURNUM sp.

No. 1534. C. W. Christi-Miller, Henley-on-Thames, Oxford, England, ex Forrest F24725.

246310. VIBURNUM sp.

No. 1535. Hillier & Sons, Winchester, England.

246311. VIBURNUM sp.

No. 1536. Hillier & Sons, Winchester, England.

246312. VIBURNUM sp.

No. 1537. Exbury Gardens, Exbury, Hampshire, England.

246313. VIBURNUM sp.

No. 1538. Exbury Gardens, Exbury, Hampshire, England.

246314. VIBURNUM sp.

No. 1539. Exbury Gardens, Exbury, Hampshire, England.

246315. VIBURNUM sp.

No. 1540. Royal Botanic Garden, Kew, England.

246316. VIBURNUM sp.

No. 1542. Royal Botanic Garden, Kew, England.

246317. VIBURNUM sp.

No. 1543. National Botanic Garden, Dublin, Ireland, ex Purdom 890.

246318. VIBURNUM sp.

No. 1544. National Botanic Garden, Dublin, Ireland, ex Wilson W1302.

246319. VIBURNUM sp.

No. 1545. Royal Botanic Garden, Edinburgh, Scotland.

246320. VIBURNUM sp.

No. 1546. Royal Botanic Garden, Edinburgh, Scotland, ex Yii 13446.

246321. VIBURNUM sp.

No. 1548. Royal Botanic Garden, Edinburgh, Scotland, ex Yii 13541.

246322. VIBURNUM sp.

No. 1549. Royal Botanic Garden, Edinburgh, Scotland.

246323. VIBURNUM sp.

No. 1551. Royal Botanic Garden, Edinburgh, Scotland, ex Yii 15024.

246324. VIBURNUM sp.

No. 1552. Royal Botanic Garden, Edinburgh, Scotland.

246325. VIBURNUM sp.

No. 1553. Royal Botanic Garden, Edinburgh, Scotland, ex Ludlow & Sherriff 19673.

246326. VIBURNUM sp.

No. 1554. Royal Botanic Garden, Edinburgh, Scotland.

246327. VIBURNUM sp.

No. 1574. Royal Botanic Garden, Edinburgh, Scotland.

246328. VIBURNUM sp.

No. 1584. Royal Botanic Garden, Edinburgh, Scotland, ex Rock W15898.

246329. VIBURNUM sp.

No. 1334. 'Anna Russell'. L. R. Russell, Ltd., Richmond Nursery, Windlesham, Surrey, England.

246330. VIBURNUM sp.

No. 1333. Royal Botanic Garden, Edinburgh, Scotland.

246331. CAPSICUM FRUTESCENS L. Solanaceae. **Redpepper.**

From Ceylon. Seed presented by the Distributors and Carriers Corporation, Jaffna. Received April 28, 1958.

'G–2 Deva'. Has high degree of resistance to bacterial leafspot.

246332. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

From Brazil. Seeds presented by the Specialist in Crop Introduction and Diversification, Cerro Largo, Rio Grande do Sul. Received April 28, 1958.

IA–38, Dwarf type developed by the Instituto Agronomico de Campinas, Sao Paulo.

246333. APIUM GRAVEOLENS L. Apiaceae. **Celery.**

From Switzerland. Seeds presented by M. J. Delacretaz, Plan-les-Quates, Geneva. Received April 28, 1958.

246334. BOTHRIOCHLOA INSCULPTA (Hochst.) A. Camus Poaceae.

From Kenya. Seeds presented by the Senior Pasture Research Officer, Kitale. Received April 28, 1958.

246335. CITROPSIS GABUNENSIS (Engl.) Swing. & M. Kell. Rutaceae.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, Crops Research Division, Beltsville, Md. Received February 26, 1958.

Col. No. 21067. Forest Reserve, Indian National pour l'Etude Agronomique du Congo Belge Station, Yangambi. Small tree or shrub; fruits green, to 3.5 cm., contains 1 to 3 seeds with a quantity of gummy substance.

246336 to 246344.

From the United States. Plants growing at the United States Plant Introduction Station, Chico, California. Numbered February 26, 1958.

The location symbol indicates the orchard letter, row letter or number and tree number.

246336 and 246337. PISTACIA ATLANTICA Desf. Anacardiaceae. **Mount Atlas pistachio.**

246336. Seedling selection from 0–5–27. Seedling progeny of pistache nut rootstock.

246337. Seedling selection from 0–1–22, 25, 26.

246338 and 246339. PISTACIA INTEGERRIMA Stewart ex Brandis **Himalayan pistachio.**

246338. Seedling selection from P.I. 107621. 0–31–24.

246339. Male seedling selection from 0–31–1 (referred to in previous publications as No. 14).

246340. PISTACIA (hybrid).

(*P. mutica* × *P. chinensis*) Seedling selection from 0–32–27. Seedlings progeny are under test as pistache nut rootstocks.

246341 to 246343. PISTACIA TEREBINTHUS L. **False terebinth.**

246341. Seedling selection from P.I. 8521, K–E–2. Seedling progeny are under test as pistache nut rootstocks.

246342. Seedling selection from P.I. 8521, K–E–3. Seedling progeny are under test as pistache nut rootstocks.

246343. Male seedling selection from P.I. 8521, K–D–3. Male parent of seedling progeny of P.I. 246341 or P.I. 246342.

246344. PISTACIA VERA L. **Common pistachio.**

'Peters', a male seedling selection, an excellent pollinizer of the early blossoming varieties 'Red Aleppo', 'Trabonella', 'Bronte', and 'Sfax'.

246345 to 246350.

From the Netherlands. Plants and cuttings presented by the Stichting Tuinbouw Proef-en Selectiebedrijf, Hertogenbosch. Received Feb. 27, 1958.

246345 to 246348. FRAGARIA (hybrids). Rosaceae. **Strawberry.**

246345. 'Jucunda'. Plant vigorous; fruit conical, brick red, solid, size average, pulp white, readily separated from the calyx. Very productive and resistant to *Botrytis cinerea*.

246346. No. 96A. ('Jucunda' × 'Ville de Paris').

246347. No. 135. ('Jucunda' × 'Klondike').

246348. No. 138. ('Jucunda' × 'Auchincruive Climax').

246349 and 246350. RUBUS IDAEUS L. Rosaceae. **European raspberry.**

246349. 'Andraea'. Stems unforked, firm, rather short, in winter very dark brown; fruits firm; flesh red.

246350. No. C–8. Stems unforked, firm, long, light brown in winter; fruits firm, dark-red; juice dark-red.

246351 to 246354.

From Kenya. Seeds presented by the Kenya Seed Company, Ltd., Kitale. Received Feb. 28, 1958.

246351 and 246352. CHLORIS GAYANA Kunth Poaceae. **Rhodesgrass.**

246351. 'Mbara'.

246352. 'Nzoia'.

246353. SETARIA SPHACELATA (Schum.) Stapf and Hubb. ex M. B. Moss Poaceae.

'Nandi'. **Millet.**

246354. TRIFOLIUM RUPPELLIANUM Fresen. Fabaceae. **Kenya clover.**

'Kenya White'.

246355. ARACHIS BENTHAMII Handro Fabaceae. **Peanut.**

From Brazil. Seeds presented by the Instituto de Botanica, Sao Paulo. Received March 3, 1958.

246356. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

From Germany. Seeds presented by the United States Embassy, Bonn, Bad Godesberg. Received March 3, 1958.

Originally from County Tauberbischofsheim in northern Baden.

'Franconian'.

246357 and 246358. POPULUS NIGRA var. ITALICA Muenchh. Salicaceae. **Lombardy poplar.**

From Czechoslovakia. Clones presented by the Czechoslovakia Academy of Agricultural Sciences, Research Institute of Forestry and Wildlife Management, Zbraslav. Received March 4, 1958.

246357. Clone 10061.

246358. Clone 10062.

246359 and 246360.

From India. Seeds presented by the Director, Sugarcane Breeding Institute, Coimbatore. Received March 4, 1958.

246359. SACCHARUM PORPHYROCOMUM (Hance) Hack. Poaceae. **Sugarcane.**

246360. SCLEROSTACHYA FUSCA (Roxb.) A. Camus Poaceae.

246361 and 246362. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

From Great Britain. Scions Presented by the East Malling Research Station, East Malling, Kent, England. Received March 4, 1958.

246361. 'Dove'. Tree moderately vigorous, preferring fertile soil; very late-blossoming; harvested in midseason; bittersweet cider type.

246362. 'Reine des Pommes'. Late variety.

246363 and 246364. PRUNUS AVIUM L. Amygdalaceae. **Sweet cherry.**

From New Zealand. Budwood presented by an unknown donor. Received March 5, 1958.

246363. 'Dawson'.

246364. 'Mahaleb'.

246365 to 246369. GLYCINE MAX (L.) Merr. Fabaceae. **Soybean.**

From Japan. Seeds presented by the Agricultural Experiment Station, Miyagi Prefecture, Sendai City. Received March 5, 1958.

246365. 'Iwate'. (1956).

246366. 'Kinsei No. 1'.

246367. 'Shimoda Shitachi'.

246368. 'Tsurunotomo No. 1'.

246369. 'Ugo'.

246370 to 246375.

From Greece. Scions presented by the Superior School of Agriculture, Athens. Received March 6, 1958.

246370. OLEA EUROPAEA L. Oleaceae. **Common olive.**

'Konservalia Amphissis'.

246371. PISTACIA TEREBINTHUS L. Anacardiaceae. **False terebinth.**

246372 to 246375. PISTACIA VERA L. **Common pistachio.**

246372. Male.

246373. Male.

246374. Female.

246375. Male.

246376 to 246387.

From the Belgian Congo. Seed collected by Louis Williams and Norris Gilbert, plant explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received March 7, 1958.

Collected at the Essais de la Mission de Kisantu.

246376. ANDROPOGON HUILLENSIS Rendle Poaceae. **Bluestem.**

Col. No. 21051. Caespitose perennial to 6 feet high; rhizome short, oblique. Found in meadows and damp pastures.

246377. CASSIA ALATA L. Caesalpiniaceae. **Ringworm cassia.**

Col. No. 21049. Shrub to 6 feet high; flowers yellow.

246378. CASSIA sp.

Col. No. 21038. Plant to 12 inches high; abundant annual on sandy soil; flowers yellow, used for fodder. Elevation 1,200 feet.

246379. CASSIA OCCIDENTALIS L. **Senna.**

Col. No. 21039. Annual to 20 inches high; used as fodder. Elevation 1,500 feet.

246380. CROTALARIA AXILLARIS Ait. Fabaceae.

Col. No. 21052. Dry garden, shrub to 9 feet high.

246381. CROTALARIA sp.

Col. No. 21037. Abundant in sandy soil. Annual to 20 inches high. Elevation 1,500 feet.

246382. INDIGOFERA sp. Fabaceae.

Col. No. 21031. Annual to 3 feet high; fruiting pods abundant.

246383 to 246385. SESAMUM ANGOLENSE Welw. Pedaliaceae.

246383. Col. No. 21010. Sandy soil perennial to 4 feet high; flowers lavender; seeds brown and black.

246384. Col. No. 21011. Soil sandy. Perennial to 4 feet high; flowers white.

246385. Col. No. 21040. Soil sandy. Perennial to 3 feet high; flowers purple, shatter easily.

246386. SESAMUM INDICUM L. **Sesame.**

Col. No. 21055. Cultivated.

246387. URENA LOBATA L. Malvaceae.

Col. No. 21041. Soil sandy. Abundant shrub or herb to 3 feet high; flowers purple; bark and stems with strong fiber; no pests apparent.

Elevation 1,500 feet.

246388 to 246391. ARACHIS HYPOGAEA L. Fabaceae. **Common peanut.**

From the Union of South Africa. Seeds presented by the Oilseed Control Board, Pretoria, Transvaal. Received March 7, 1958.

246388. 'Kaboka Tjina'.

246389. 'Natal common'.

246390. Type 24. Testa white.

246391. No. 52 G 1206.

246392. BETA sp. Chenopodiaceae.

From the Azores. Seeds presented by the Delegacao de Ponta Delgada, St. Michael. Received March 7, 1958.

246393. HIEROCHLOE REDOLENS (Vahl.) Roem. & Schult. Poaceae.

From Australia. Seed presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received March 7, 1958.

Originally from Snowy Flat, Australian Commonwealth Territory. Perennial to 3 feet high; stems tufted, erect; leaves flat, rigid; panicle dense. Elevation 5,000 feet. Has comumarin odor and is native to the Australian Alps, New Zealand and America.

246394 and 246395.

From Mexico. Seeds collected by Bernice G. Schubert, agricultural explorer, Plant Introduction Section, New Crops Research Branch, Beltsville, Md. Received March 7, 1958.

246394. DIOSCOREA sp. Dioscoreaceae.

Col. No. 1684. Roadside rocky bank, Ixtun, Merida-Campeche road, Vine in fruit; capsules grayish, slender, acuminate at apex and base.

246395. DIOSCOREA sp.

Col. No. 1685. Rocky roadside bank, Ixtun, Merida-Campeche road. Vine in fruit; capsules grayish, slender, acuminate at apex and base.

246396. CICER ARIETINUM L. Fabaceae. **Chickpea.**

From India. Seeds presented by the Division of Mycology, Indian Agricultural Research Institute, New Delhi. Received March 7, 1958.

G. 24. Grown at Ferozepore, Punjab.

246397. ZIZANIA AQUATICA L. **Poaceae.** **Northern wildrice.**

From China. Plants presented by C. C. Hsu, Taipei, Taiwan. Received March 7, 1958.

246398 to 246401.

From Great Britain. Plants presented by F. A. McClure, Smithsonian Institution, Washington, D.C. Received March 10, 1958.

246398. ARUNDINARIA ANCEPS Mitf. Poaceae. **Bamboo.**

Castlemargaret, Claremorris, County Mayo, Scotland.

246399 to 246401. Royal Botanical Garden, Kew, England.

246399. CHIMONOBAMBUSA MARMOREA (Mitf.) Makino Poaceae. **Marble bamboo.**

246400. SINARUNDINARIA MURIELAE (Gamble) Nakai Poaceae. **Bamboo.**

246401. SINARUNDINARIA NITIDA (Mitf.) Nakai **Bamboo.**

Plant exceptionally cold-resistant; clump-forming type to 20 feet high; culm exceeding 0.75 inch diameter; leaves small, to three inches long and 0.5 inch wide. Used in the making of baskets, sieves, light fencing and house construction. Elevation to 10,000 feet on northern slopes.

246402. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

From Great Britain. Scions presented by the National Fruit Trials, Wisley, near Ripley, Surrey, England. Received Mar. 7, 1958.

'George Cave'. A very early ripening variety.

246403 to 246405.

From India. Seeds presented by the Division of Botany, Indian Agricultural Research Institute, New Delhi. Received Mar. 10, 1958.

246403 and 246404. DOLICHOS BIFLORUS L. Fabaceae. **Twinflower dolichos.**

246403. 'Belgauum' 1–1–8–3.

246404. 'Belgauum' 1–1–8.

246405. SORGHUM BICOLOR (L.) Moench Poaceae.

'Yenigar' I.C. 5414.

246406 to 246408. MUSA TEXTILIS Nees Musaceae. **Abaca.**

From Costa Rica. Roots presented by the Instituto Inter-Americano de Ciencias Agricolas de Turrialba, San Jose. Received Mar. 10, 1958.

246406. 'Bungalanon'.

246407. 'Maguindanao'.

246408. 'Tangongon'.

246409 and 246410. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. **Sweetpotato.**

From the Belgian Congo. Cuttings collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received March 10, 1958.

246409. Col. No. 21170. 'Nyamungesi'. Nioka Station, Institut National pour l'Etude Agronomique du Congo Belge. Leaves dissected; flowers, but does not produce seed. Primitive type. Origin, Hioka.

246410. Col. No. 21171. 'Mugenda'. Primitive type. Origin, Ruanda.

246411 to 246414. ORYZA SATIVA L. Poaceae. **Rice.**

From British Guiana. Seeds presented by the Director of Agriculture, Georgetown. Received March 10, 1958.

246411. C.A.S. 174.

246412. C.A.S. 180.

246413. C.A.S. 186.

246414. C.A.S. 1071.

246415 to 246418. PRUNUS AVIUM L. Amygdalaceae. **Sweet cherry.**

From Iran. Scions presented by the Meshed Agricultural Experiment Station, Meshed. Received March 10, 1958.

246415. 'Gilas Faranghi Dorosht'.

246416. Early.

246417. Yellow.

246418. (No data.)

246419. PYRUS COMMUNIS L. Malaceae. **Common pear.**

From France. Scions presented by the Delbard Nurseries, Paris. Received March 10, 1958.

'Noveau Poiteau'. Tree upright and spreading; fruit large, oval-pyriform, irregular, pale greenish-yellow, almost covered with russet-red; flesh greenish-white, tender; juice, small amount, sweet; eye small, closed or almost so, in a large irregular basin. A moderate cropper. Synonyms; 'Retour de Rome', 'Choix de l'Amateur'.

246420 to 246460.

From Brazil. Collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received March 11, 1958.

From Botanical Garden, Rio de Janeiro, unless otherwise noted, material collect as plants.

246420. ALLAMANDA CATHARTICA L. Apocynaceae.

Col. No. 18033. Scandent shrub to 10 feet high; flowers large, intense yellow. (Cuttings.)

246421. ANTHURIUM HARRISII (Graham) Engl. Araceae.

Col. No. 18129. Plant wide-spreading; leaves large, deep green, up to 3 feet long and 16 inches wide.

246422. BRYOPHYLLUM BEAUVERDII (Hamet) Berger Crassulaceae.

Col. No. 18131. Leaves light green, opposite, recurved. Climber on *Durantha plumieri.*

246423. BRYOPHYLLUM TUBIFLORUM Harv.

Col. No. 18124. Plant small, erect.

246424. BRYOPHYLLUM UNIFLORUM (Stapf) Berger

Col. No. 18117. Plant to 14 inches high; leaves light to dark green, edge reddish to light brown.

246425. BRYOPHYLLUM sp.

Col. No. 18110. Herb to 6 inches high. Grows in gravelly soil.

246426. KALANCHOE sp. Crassulaceae.

Col. No. 18112. Stem to 20 inches high.

246427. CASTANOSPERMUM AUSTRALE Cunn. & Fraser Fabaceae. **Moreton Bay-chestnut.**

Col. No. 18055. Tree to 60 feet high. (Seeds.)

246428. KALANCHOE ROTUNDIFOLIA Haw. Crassulaceae.

Col. No. 18107. Plant to three inches high. Grows in gravel or sandy soil.

246429. DICHORISANDRA sp. Commelinaceae.

Col. No. 18128. Shrub to six feet high in shaded spots; flowers deep purplish-blue.

246430. ECHEVERIA CHICLENSIS (Ball) Berger Crassulaceae.

Col. No. 18133. Plant low.

246431. EPIDENDRUM IMATOPHYLLUM Lindl. Orchidaceae. **Orchid.**

Col. No. 18040. Epiphyte, among rocks in shade.

246432. EUPHORBIA SIPOTISII N. E. Br. Euphorbiaceae. **Spurge.**

Col. No. 18017. Plant to three feet high, in sandy soil.

246433. SINNINGIA sp. Gesneriaceae.

Col. No. 18132. Plant to eight inches high, among rocks on sea coast; flowers; deep purplish-blue.

246434. IPOMOEA CRASSICAULIS (Benth.) Robinson Convolvulaceae.

Col. No. 18037. 'Algodao do Pantanao'. Slender shrub to six feet high.

246435. JATROPHA PODAGRICA Hook. Euphorbiaceae.

Col. No. 18137. Shrub to eight feet high; stem swollen.

246436. KALANCHOE BEHARENSIS Drake Crassulaceae.

Col. No. 18134. Plant to eight feet high; trunk thick.

246437. KALANCHOE CARNEA N. E. Br.

Col. No. 18135. Plant to eight inches high.

246438. KALANCHOE CRENATA Haw.

Col. No. 18119. Plant to 3 inches high; leaves light green to light brown.

246439. KALANCHOE FAUSTII Font Quer

Col. No. 18114. Plant to 10 inches high.

246440. KALANCHOE FEDTSCHENKOI Ham. & Perr.

Col. No. 18105. Plant to 12 inches high.

246441. KALANCHOE HUMBERTII Guillaumin

Col. No. 18109. Plant to 12 inches high; new leaves with reddish edge, old leaves with yellowish edge; flowers intense yellow.

246442. KALANCHOE LACINIATA (L.) DC.

Col. No. 18120. Plant to 8 inches high with light green leaves.

246443. KALANCHOE MILLOTII Ham. & Perr.

Col. No. 18115. Plant to 10 inches high; leaf margin slightly serrate.

246444. KITCHINGIA PELTATA Bak. Crassulaceae.

Col. No. 18118. Plant to 12 inches high; leaves with thin reddish margin.

246445. BRYOPHYLLUM SCANDENS (Perrier) Berger Crassulaceae.

Col. No. 18108. Plant forming a dense mass, climber; leaves dark green and thick.

246446. KALANCHOE SERRATA Mannoni & Boiteau Crassulaceae.

Col. No. 18111. Herbaceous plant to 10 inches high; leaves thick, spatulate, reddish along edge when young, old are yellowish-brown.

246447. KALANCHOE sp.

Col. No. 18106. Creeping plant; stems to ten inches long; leaves serrate.

246448. KALANCHOE TOMENTOSA Baker

Col. No. 18126. Plant to 24 inches high; leaves thick, dense pubescent on both surfaces, upper portion of edge dark brown.

246449. KALANCHOE sp.

Col. No. 18116. Plant to 16 inches high.

246450. KALANCHOE VELUTINA Welw.

Col. No. 18136. Plant to six inches high.

246451. KALANCHOE (hybrid).

Col. No. 18121. Plant to six inches high; flowers yellow.

246452. KALANCHOE sp.

Col. No. 18125. Plant slender to 12 inches high; leaves with pinkish-red margin.

246453. OPHIOPOGON JAPONICUS (L.f.) Ker Liliaceae. **Japanese snakeboard.**

Col. No. 18102. Plant forms a dense cover in deep shade; leaves dark green.

246454. OPHIOPOGON JABURAN (Siebold) Lodd. **Jaburan.**

Col. No. 18103. Plant to eight inches high; leaves usually with white margin; flowers purplish.

246455. PEPEROMIA INCANA A. Dietr. Piperaceae.

Col. No. 18127. Plant to 24 inches high; leaves dark green and thick.

246456. PEPEROMIA OBTUSIFOLIA (L.) A. Dietr.

Col. No. 18122. Plant with creeping stems to 6 inches high; leaves thick.

246457. RHODODENDRON INDICUM (L.) Sweet Ericaceae.

Col. No. 18038. Hedge shrub in clumps to 8 feet high; flowers pale purple.

246458. SANSEVIERIA CYLINDRICA Bojer Liliaceae.

Col. No. 18113. Plant to 2.5 feet high, usually erect.

246459. SCHINUS MOLLE L. Anacardiaceae. **California peppertree.**

Col. No. 18041. 'Aroeira'. Tree small; twigs and foliage pendent; leaves light green.

246460. BOUGAINVILLEA SPECTABILIS Willd. Nyctaginaceae. **Great bougainvillea.**

Col. No. 18016. Small tree or tall shrub becoming scandent with age; flowers white.

246461 to 246464.

From Denmark. Scions presented by Count F. M. Knuth, Knuthenborg, Bandholm. Received March 11, 1958.

246461. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

'Red Cox's Pomona'. A dual purpose midwinter variety, popular in colder districts.

246462. PYRUS COMMUNIS L. Malaceae. **Common pear.**

'Red colored de Juillet'. From a 15-year-old tree.

246463 and 246464. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

246463. 'James Grieve'. Neumanns Rotar strain of German origin.

246464. 'James Grieve'. Red Rosamund strain of English origin.

246465 to 246475.

From Brazil. Seeds collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received March 11, 1958.

From the Botanical Garden, Rio de Janerio.

246465. CAMOENSIA MAXIMA Welw. Fabaceae.

Col. No. 18025. Woody vine; foliage dark green; flowers white. Native to tropical Africa.

246466. CORDIA SUPERBA Cham. Boraginaceae.

Col. No. 18083. Tree to 20 feet high; fruit contains a white, sticky, edible pulp. Native of Brazil.

246467. DIOSPYROS APEIBACARPOS Raddi Diospyraceae.

Col. No. 18056. Tree to 15 feet high; fruits edible; pulp yellow.

246468. EUGENIA JAMBOS L. Myrtaceae. **Rose-apple.**

Col. No. 18019. 'Jambo Rosa'. Tree to 12 feet high; fruits striped pinkish; pulp edible.

246469. EUGENIA MALACCENSIS L. **Ohia.**

Col. No. 18018. 'Jambo Vermelho'. Tree to 18 feet high; fruit has edible pulp.

246470. HEVEA BRASILIENSIS (A. Juss.) Muell.-Arg. Euphorbiaceae. **Para rubber tree.**

Col. No. 18066. 'Sirlinga Borracha'. Tree to 90 feet high.

246471. JACARATIA DODECAPHYLLA DC. Caricaceae.

Col. No. 18010. 'Jaccaratia'. Small tree in sandy soil; fruits edible.

246472. NYMPHAEA sp. Nymphaeaceae.

Col. No. 18064. Aquatic plant; flowers deep purple.

246473. NICOLAIA ELATIOR (Jack) Horan. Zingiberaceae.

Col. No. 18063. 'Bastao do Imperador'. Stems to 12 feet high with flowering stems to 3 feet high.

246474. PHILODENDRON SPECIOSUM Schott. Araceae.

Col. No. 18094. Straggly plant to 3 feet high; stems often crawling along ground; leaves dark green.

246475. RAUVOLFIA GRANDIFLORA Mart. Apocynaceae. **Devilpepper.**

Col. No. 18026. Shrub to 5 feet high, usually among rocks in shade.

246476. IPOMOEA TILIACEA (Willd.) Choisy Convolvulaceae. **Morning-glory.**

From Puerto Rico. Seeds presented by the Rio Piedras Experiment Station, Rio Piedras. Received March 11, 1958.

246477 to 246557.

From Peru. Tubers collected by Donovan S. Correll and E. E. Smith, collaborators, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received March 11, 1958.

246477 and 246478. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. **Sweetpotato.**

246477. Col. No. P–152. Cavelo, near Santiago. Roots fusiform; skin purplish red; flesh deep orange-yellow.

246478. Col. No. P–175. Comote. Oconra market, Arequipa. Roots with cream-colored skin; flesh orange-yellow.

246479 to 246483. SOLANUM ACAULE Bitter Solanaceae.

246479. Col. No. P–154. Ninety kms. from Nasca, road to Puquio. Elevation 3,900 meters. Plants prostrate; flowers purplish-blue.

246480. Col. No. P–155. One hundred seventeen kms. from Nasca, road to Puquio. Elevation 4,500 meters. Plants prostrate; tubers small.

246481. Col. No. P–178. Alpine meadow, Canaguas, Arequipa. Elevation 4,075 meters. Plants prostrate; tubers to 2 cm. long.

246482. Col. No. P–181. Among boulders. Six kms. from Puno, road to Arequipa. Plants prostrate.

246483. Col. No. P–192. Four kms. from Puno, road to Arequipa. Elevation 3,900 meters. Plants prostrate; fruits ellipsoid.

246484. SOLANUM CALCENSE Hawkes

Col. No. P–230. Near Calca. Elevation 3,000 meters. Flowers purple.

246485. SOLANUM LECHNOVICZII Hawkes

Col. No. P–229. Near Calca, on road to Pisac. Elevation 3,000 meters. Flowers purplish-blue.

246486. SOLANUM LIGNICALULE Vargas.

Col. No. P–227. Slopes above Pisac. Elevation 3,050 meters. Tubers globular, to 3 cm. in diameter; flowers white.

246487 and 246488. SOLANUM RAPHANIFOLIUM Card. & Hawkes.

246487. Col. P–218. Fort Sacsayhuaman, above Cuzco. Plant to 1 meter high; tubers globular; flowers deep purple, 3 cm. across; fruits green, marked purple.

246488. Col. No. P–218. (Seeds.)

246489. SOLANUM sp.

Col. No. P–240. Above Huancaro on way to Paruro. Elevation 3,300 meters. Flowers dark purple, rotate-stellate.

246490. SOLANUM sp.

Col. No. P–233. Between San Geronjino and Sailla, Cuzco. Tubers globular, purplish; stems purplish; flowers deep purple.

246491. SOLANUM sp.

Col. No. P–148. Road to Puquio, 45 kms. from Nasca. Elevation 2,200 meters. Plants tuberous.

246492. SOLANUM sp.

Col. No. P–153. Road to Puquio, 90 kms. from Nasca. Elevation 3,900 meters. Leaves purplish on back; tubers small.

246493. SOLANUM sp.

Col. No. P–157. Road to Puquio, 126 kms. from Nasca. Elevation 4,000 meters. Plants small; flowers purplish.

246494. SOLANUM sp.

Col. No. P–161. 'Papa Liniania'. Small valley near Puquio. Skin tan-colored; flesh creamy-white.

246495. SOLANUM sp.

Col. No. P–162. 'Aracc'. Road to Nasca, 35 kms. from Puquio. Elevation 3,500 meters. Plants small; tubers small, watery; flowers pale lavender.

246496. SOLANUM sp.

Col. No. P–163. 'Chaucha'. Puquio, small farms. Tubers 3 cm. in diameter; skin reddish-pink; flesh cream-color.

246497. SOLANUM sp.

Col. No. P–164. 'Larac Sisa'. Puquio, small farms. Tubers subglobose; skin pink; eyes deep; flesh cream-color.

246498. SOLANUM sp.

Col. No. P–165. 'Pepino'. Small farm near Puquio. Tubers ellipsoidal; skin purplish-red; eyes deep; flesh deep yellow.

246499. SOLANUM sp.

Col. No. P–166. 'Casa Blanca'. Small farm near Puquio. Tubers round-flattened; skin white; flesh creamy-white.

246500. SOLANUM sp.

Col. No. P–167. 'Albarado'. Small farm near Puquio. Tubers small, globular; skin purplish-red; eyes deep; flesh creamy-yellow.

246501. SOLANUM sp.

Col. No. P–168. Road to Nasca, 13 kms. from Puquio. Elevation 3,800 meters. Flowers purplish-blue.

246502. SOLANUM PENNELLII Correll

Col. No. P–173. Between Chola and Atico, Pan-American Highway. Plants glandular-viscous; flowers yellow. (Seed.)

246503. SOLANUM sp.

Col. No. P–179. Alpine meadow, Lagunillos, Puno. Plant prostrate.

246504. SOLANUM sp.

Col. No. P–180. Maravillas, Puno. Elevation 3,900 meters. Plant low, bushy; fruits ovoid, grass-green with dark patches, 2 cm. long. (Seed.)

246505. SOLANUM sp.

Col. No. P–182. Road to Arequipa, 6 kms. from Puno. Elevation 4,000 meters. Plant erect.

246506. SOLANUM sp.

Col. No. P–190. Road to Arequipa, 4 kms. from Puno. Elevation 3,900 meters. Tubers ellipsoid, purple. Produced at surface of soil.

246507. SOLANUM sp.

Col. No. P–193. Hills above Puno. Elevation 3,700 meters. Flowers purple, stellate; fruits ellipsoid to ovoid.

246508. SOLANUM sp.

Col. No. P–194. Rocky hills above Puno. Elevation 3,700 meters. Leaves dissected; fruits orbicular.

246509. SOLANUM sp.

Col. No. P–196. Road to Juliaca, 10 kms. from Puno. Elevation 3,800 meters. Plants low, bushy; flowers purple, rotate to rotate-stellate.

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246510. SOLANUM sp.

Col. No. P–197. Among boulders, road to Juliaca, 10 kms. from Puno. Elevation 3,800 meters. Flowers purple, rotate.

246511. SOLANUM sp.

Col. No. P–198. Road to Juliaca, 10 kms. from Puno. Elevation 3,800 meters. Flowers large, rotate, blue.

246512. SOLANUM sp.

Col. No. P–200. Road to Juliaca, 10 kms. from Puno. Leaves purplish beneath; flowers bluish.

246513. SOLANUM sp.

Col. No. 201–P. Road to Juliaca, 11 kms. from Puno. Elevation 3,700 meters. Flowers lavender-blue.

246514. SOLANUM sp.

Col. No. P–202. Purchased in Puno market. Tubers globular, skin and flesh yellowish-white; eyes broad, shallow.

246515 to 246526. Market, Puno. Grown in vicinity by Indians.

246515. SOLANUM sp.

Col. No. P–203. Tubers globular; skin and flesh white; eyes shallow, pinkish, broad.

246516. SOLANUM sp.

Col. No. P–204. Tubers cylindric arcuate; skin reddish-pink; eyes long; flesh white.

246517. SOLANUM sp.

No. P–205–A. Tubers pear-shaped; skin mottled tan with purple; flesh cream-colored.

246518. SOLANUM sp.

Col. No. P–205–B. Tubers pear-shaped or ellipsoid; skin and flesh white; eyes long and narrow.

246519. SOLANUM sp.

Col. No. P–206–A. Tubers globular narrow; skin reddish-pink; eyes shallow; flesh yellowish.

246520. SOLANUM sp.

Col. No. P–206–B. Tubers globular-compressed with small eyes; skin purplish red with broad yellow-white blotches; flesh creamy-white.

246521. SOLANUM sp.

Col. No. P–207. Tubers globular; skin reddish-purple; eyes deep, round; flesh reddish.

246522. SOLANUM sp.

Col. No. P–208. Tubers ellipsoid, slightly compressed; skin white; eyes shallow; flesh greenish-yellow.

246523. SOLANUM sp.

Col. No. P–209. Tubers irregularly round; skin flesh pink; eyes deep; flesh light yellow.

246524. SOLANUM sp.

Col. No. P–210. Tubers globular; skin mottled pink and yellow; flesh creamy-white.

246525. SOLANUM sp.

Col. No. P–211. Tubers globular; skin purple-black; eyes small; flesh cream-colored.

246526. SOLANUM sp.

Col. No. P–212. Tubers globular or ellipsoid; skin mottled purple and pink; flesh cream-colored.

246527. SOLANUM sp.

Col. No. P–213. Among rocks, Camacani, 27 km. southeast of Puno. Elevation 4,000 meters. Plants low; tubers about 1 cm. in diameter.

246528. SOLANUM sp.

Col. No. P–215. Among boulders, Camacani, 27 kms. southeast of Puno. Plants varying from slender and simple to stout, much-branched, to 1 meter high; flowers purple, to 4.5 cm. across, some double.

246529. SOLANUM sp.

Col. No. P–219. Fort Pucara, 7 kms. from Cuzco. Elevation 3,750 meters. Plant dwarf; flowers dark purple, rotate-stellate; tubers small.

246530. SOLANUM sp.

Col. No. P–220. Fort Pucara, 7 kms. from Cuzco. Elevation 3,750 meters. Plants in a rosette, with numerous thick, coarse, veiny leaves; tubers globular to 1 cm. in diameter; flowers purple, rotate-stellate.

246531. SOLANUM sp.

Col. No. P–221. Fort Pucara, 7 kms. from Cuzco. Tubers to 2 cm. in diameter.

246532. SOLANUM sp.

Col. No. P–222. Road to Pisac, 4 kms. from Cuzco. Elevation 3,650 meters. Plants low; flowers purple.

246533. SOLANUM sp.

Col. No. P–223. Road to Pisac, 4 kms. from Cuzco. Plants low, bushy: leaflets small; flowers lavender-blue; fruits orbicular, white speckled, 1.5 cm. in diameter; roots long but no tubers found. (Seed.)

246534. SOLANUM sp.

Col. No. P–224. Karau, 15 km. from Cuzco, road to Pisac. Flowers deep purple, rotate-stellate.

246535. SOLANUM sp.

Col. No. P–225. Wet slope, road to Cuzco, 9 km. from Pisac. Flowers light blue, rotate-stellate, to 5 cm. in diameter.

246536. SOLANUM sp.

Col. No. P–231. Urubamba. Elevation 2,900 meters. Plant robust, much-branched, to 1 decimeter high; flowers rotate, bluish-lavender. (Seed.)

246537. SOLANUM sp.

Col. No. P–234. Piquillacta, Quisipicanchi, Cuzco. Elevation 3,200 meters. Flowers pale blue, rotate-stellate.

246538. SOLANUM sp.

Col. No. P–237. Piquillacta. Elevation 3,200 meters.

246539. SOLANUM sp.

Col. No. P–241. Recolecte, Cuzco. Flowers purple with white radiating stripes; tubers globular to 4.5 cm. in diameter; flesh tinged with purple; fruits ovoid, 1.5 cm. long.

246540. SOLANUM sp.

Col. No. P–242. On wall of Sun Temple of Incas, Cuzco. Flowers purple; fruits large, globular. Possibly an escape. (Seed.)

246541 to 246555. Grown by Indians in vicinity of Pisac.

246541. SOLANUM sp.

Col. No. P–243. 'Bole'. Tubers globular; eyes shallow; skin purplish-red; flesh deep yellow.

246542. SOLANUM sp.

Col. No. P–244. 'Cuchi-aca'. Tubers ellipsoid; skin purple; eyes shallow; flesh white.

246543. SOLANUM sp.

Col. No. P–245. Tubers ellipsoid-compressed; skin dull purple; flesh white.

246544. SOLANUM sp.

Col. No. P–246. 'Waman Usna'. Tubers irregular; skin yellow with reddish mottling; flesh creamy-yellow.

246545. SOLANUM sp.

Col. No. P–247. 'Walla Soncco'. Tubers globular-compressed; skin copper-colored; flesh creamy-white.

246546. SOLANUM sp.

Col. No. P–248. 'Paspa Bunchu'. Tubers globular; skin white; eyes shallow; flesh yellowish.

246547. SOLANUM sp.

Col. No. P–249. 'Rusi'. Tubers globular; skin black; eyes deep, narrow; flesh purple.

246548. SOLANUM sp.

Col. No. P–250. Tubers pear-shaped, compressed; eyes long, irregular; skin tan-colored; flesh white.

246549. SOLANUM sp.

Col. No. P–251. 'Ardcc'. Tubers ellipsoid; skin purple-black; eyes irregular; flesh purplish.

246550. SOLANUM sp.

Col. No. P–252. 'Wayruru'. Tubers globular-flattened; skin mottled red and yellow; eyes shallow; flesh cream-colored.

246551. SOLANUM sp.

Col. No. P–253. 'Alaco'. Tubers globular-ellipsoid; skin white; eyes shallow; flesh yellow.

246552. SOLANUM sp.

Col. No. P–254. 'Tana Cusi'. Tubers ellipsoid; skin bronze-colored; flesh white.

246553. SOLANUM sp.

Col. No. P–255. 'Bole'. Tubers globular; skin purplish-red; flesh yellowish-white.

246554. SOLANUM sp.

Col. No. P–256. 'Ruki'. Tubers orbicular-pyriform compressed; skin dull purple; flesh white.

246555. SOLANUM sp.

Col. No. P–257. 'Suytta'. Tubers cylindric; skin dull purplish-black; eyes small, shallow; flesh white.

246556. SOLANUM sp.

Col. No. P–279. Market Cuzco. Tubers globular; skin dull pinkish-red; eyes deep; flesh white.

246557. SOLANUM sp.

Col. No. P–280. Market, Cuzco. Tubers pear-shaped; skin purplish-red; flesh cream-colored.

246558 to 246564.

From Europe and Africa. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received March 14, 1958.

246558. ASPARAGUS sp. Convallariaceae.

Col. No. 21001. Lisbon, Portugal. A climbing ornamental asparagus fruiting and flowering out-of-doors.

246559. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

Col. No. 21003. Experimental Station, Bambey, Senegal. Primitive form; fruits globose, to 8 inches in diameter; flesh white, not bitter. Probably planted as a source of moisture for cattle during the dry season.

246560. DOLICHOS LABLAB L. Fabaceae. **Hyacinth-bean.**

Col. No. 21002. Experimental Station, Bambey, Senegal. A white-flowered type; drought resistant. Used as a cover crop and green manure.

246561. LANDOLPHIA sp. Apocynaceae.

Col. No. 21046. Along Kisantu-Leopoldville Road, 22 miles southwest of Leopoldville, Belgian Congo. Vine to six feet high; fruits said to be edible.

246562. LUFFA CYLINDRICA (L.) Roemer Cucurbitaceae. **Suakwa towelgourd.**

Col. No. 21004. Experimental Station, Bambey, Senegal. Fiber sometimes used as a sponge.

246563. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**

Col. No. 21057. Market in Madimba, Belgian Congo. Seeds white.

246564. TRIPHASIA GRANDIFOLIA Merr. Rutaceae.

Col. No. 21013. Kisantu Botanical Garden, Kisantu, Belgian Congo. Shrub to 14 feet high.

246565 to 246569. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae. Cabbage.

From Great Britain. Seeds presented by the National Institute of Agricultural Botany, Cambridge, England. Received Mar. 14, 1958.

246565. 'Alexander's No. 1'.

246566. 'Ormskirk Early'. (Clucas.)

246567. 'Ormskirk Medium'. (Clucas.)

246568. 'Ormskirk Late Green'. (Clucas.)

246569. 'Ormskirk Extra Late'. (Clucas.)

246570 to 246584.

From Peru. Tubers and fruits collected by D. S. Correll and E. E. Smith, collaborators, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Mar. 17, 1958.

246570 and 246571. SOLANUM ACAULE Bitter. Solanaceae.

Col. No. P–298. Slopes above Cullnay, Lima. Elevation 4,050 meters. Plants in low rosette. Flowers blue; fruits ovoid; tubers small, ellipsoid or round.

246570. (Tubers.)

246571. (Fruits.)

246572. SOLANUM sp.

Col. No. P–282. Below Canta, Lima. Elevation 2,200 meters. Flowers purple, rotate, with prominent stamen.

246573. SOLANUM sp.

Col. No. P–283. Below Canta, Lima. Elevation 2,475 meters. Plant robust; flowers purple, rotate.

246574. SOLANUM sp.

Col. No. P–285. Slopes above Canta, Lima. Elevation 2,850 meters. Flowers large, purple, rotate.

246575. SOLANUM sp.

Col. No. P–288. Above Canta, Lima. Elevation 3,200 meters. Plants robust; flowers large, rotate, purple. Rust present.

246576. SOLANUM sp.

Col. No. P–289. Along road above Canta, Lima. Elevation 3,300 meters Plants stout; flowers purplish.

246577. SOLANUM sp.

Col. No. P–291. Above Canta, Lima. Elevation 3,400 meters. Plants unusually hispid; tubers globular-ellipsoid.

246578. SOLANUM sp.

Col. No. P–292. Above Canta, Lima. Elevation 3,400 meters. Plants low, glabrous; leaves deep green on upper surface.

246579. SOLANUM sp.

Col. No. P–293. Ubiquitous along road below Culluay, on road to Canta, Lima. Elevation 3,500 meters. Plant abundant, tall and showy with many long-peduncled flowers.

246580. SOLANUM sp.

Col. No. 294. Forms a small colony below Culluay, road to Canta, Lima. Plants tall, bushy; flowers pale lavender, almost white; tubers large, flattish.

246581. SOLANUM sp.

Col. No. P–295. Below Culluay, road to Canta, Lima. Elevation 3,600 meters. Plants robust, stems and rachis purplish; flowers deep purple, to 4.5 cm. in diameter, rotate-stellate; tubers very irregular.

246582. SOLANUM sp.

Col. No. P–296. Near Culluay. Elevation 3,800 meters. Plants bushy, to 1.5 decimeters high and wide; flowers large, deep purple, rotate; tubers with purplish skin and flesh.

246583. SOLANUM sp.

Col. No. P–297. Rocky slopes near Culluay. Elevation 3,900 meters. Plant low, rosette-like to tall, depending on exposure; flowers purple; tubers orbicular.

246584. SOLANUM sp.

Col. No. P–290. Rocky slope above Canta. Elevation 3,300 meters. Plants stiffly erect, glabrous throughout; leaves verucose above; flowers pure white, rotate-stellate.

246585 and 246586.

From Peru. Seeds collected by D. S. Correll and E. E. Smith, collaborators, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received March 17, 1958.

246585. LYCOPERSICON (hybrid). Solanaceae.

Col. No. P–147. ((*L. peruvianum* × *L. glandulosum*) × *L. hirsutum*). West of Andes, Nasca-Puquio Road, Peru. El. 2,100 meters. Flowers yellow with yellowish-green fruits.

246586. LYCOPERSICON PERUVIANUM (L.) Mill.

Col. No. P–174. Near Atico. Plants bushy, brittle; flowers yellow, stellate.

246587 to 246591.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received March 17, 1958.

246587 to 246589. DUBOISIA MYOPOROIDES R. Br. Solanaceae.

246587. N–542. Acacia Plateau, New South Wales. Seeds from numerous trees.

246588. N–546. Wilson Creek, Mullumbimby to Goonengerry, New South Wales. Single tree sample.

246589. Q–307. Carrumbin Creek, Queensland.

246590. GLYCINE CLANDESTINA Wendl. Fabaceae.

C–332. Mount Sidbeirbilla, Australian Commonwealth Territory.

246591. GLYCINE FALCATA Benth.

Q–156. Gilruth Plains, Queensland.

246592 to 246595. SORGHUM DOCHNA (Forsk.) Snowden Poaceae.

From the Union of Soviet Socialist Republics. Seeds presented by the Sorghum Breeding Station, Wamego, Kansas. Received Mar. 17, 1958.

246592. Flowers in 66 days. Orange type.

246593. Flowers in 66 days. Open head similar to orange sorgo.

246594. Flowers in 67 days. Appear to be a hegari derivative. Has chalky layer and subcoat.

246595. Flowers in 84 days. Similar to sumac sorgo.

246596. EUPHORBIA PULCHERRIMA Willd. Euphorbiaceae. **Common poinsettia.**

From Brazil. Plant and cuttings presented by V. C. Del Mazo Suarez, Sao Paulo. Received Mar. 18, 1958.

Bracts yellow.

246597 to 246599. POPULUS TREMULA L. Salicaceae. **European aspen.**

From Germany. Scions presented by Deutsche Akamedie der Landschaftswissenschaften, Berlin. Received March 12, 1958.

246597. Triploid. 'Lillo'. Male.

246598. Triploid. Male.

246599. Triploid. 'Rosendal'. Female.

246600. CYNODON DACTYLON (L.) Pers. Poaceae. **Bermudagrass.**

From India. Seeds presented by the Royal Calcutta Golf Club, Calcutta. Received Mar. 19, 1958.

'Dub' Strain. Banda District. Elevation 8,000 feet.

246601 to 246647.

From Brazil. Plants collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Mar. 19, 1958.

Collected at Petropolis, State of Rio de Janeiro. Elevation 2,800 feet.

246601. ANTHURIUM ANDRAEANUM Linden Araceae.

Col. No. 18250. Plants to three feet high.

246602. ANTHURIUM SCHERZERIANUM Schott.

Col. No. 18253. Plants to 16 inches high.

246603. ANTHURIUM sp.

Col. No. 18262. Plants small and somewhat uncommon; flowers pale mauve.

246604 to 246614. ANTHURIUM (hybrids).

246604. Col. No. 18235. 'Preto Extra' × 'Vermelho Rei'. 012.

246605. Col. No. 18236. 'Vermelho Rei' × 'Saumao'. 02.

246606. Col. No. 18237. 'Rosa Extra' × 'Vermelho Rei'. 011.

246607. Col. No. 18238. 'Vermelho Extra' × *Anthurium* sp. 010.

246608. Col. No. 18239. 'Vermelho Rei' × *Anthurium* sp. 04.

246609. Col. No. 18240. 'Tijolo Extra'. 014.

246610. Col. No. 18241. 'Saumao' × 'Rosa y Verde'. 028.

246611. Col. No. 18242. 'Rosa y Verde' × 'Vermelho Rei'. 025.

246612. Col. No. 18243. 'Preto Extra' × 'Vermelho Rei'. 026.

246613. Col. No. 18244. 'Vermelho Rei' × 'Vermelho Grena'. 024.

246614. Col. No. 18245. 'Saumao' × 'Saumao'. (Originally from Sao Paulo.) 013.

246615. VRIESIA sp. Bromeliaceae.

Col. No. 18265. Flowers yellow, said to be native to Serra das Orgaos.

246616. BROMELIA sp. Bromeliaceae.

Col. No. 18263. Leaves mottled light brown.

246617. VRIESIA sp. Bromeliaceae.

Col. No. 18264. Flowers pinkish to red.

246618. BROMELIA sp. Bromeliaceae.

Col. No. 18266. Flowers reddish.

246619 and 246620. Said to be native to Serra das Orgaos.

246619. BROMELIA sp.

Col. No. 18267. No. 1.

246620. BROMELIA sp.

Col. No. 18267. No. 2.

246621. BROMELIA sp.

Col. No. 18270. Leaves to eight inches long; flowering stem to 15 inches high.

246622. BROMELIA sp.

Col. No. 18271. Leaves dark green to 16 inches long; flowers reddish at base, yellow at tip.

246623. BROMELIA sp.

Col. No. 18272. Leaves to 12 inches long; flowers deep reddish-pink in part, yellow at tip.

246624. BROMELIA sp.

Col. No. 18273. Leaves dark green to 12 inches long.

246625. CALADIUM HUMBOLDTII Schott. Araceae.

Col. No. 18249. Leaves to 10 inches high.

246626. CALADIUM sp.

Col. No. 18259. Leaves to 20 inches high.

246627. CALADIUM sp.

Col. No. 18260. Said to reach a height of 4.5 feet.

246628. HYPOCYRTA RADICAN Kl. & Hanst. Lythraceae.

Col. No. 18268. Small herb; foliage dark green; flowers reddish-pink.

246629. FITTONIA ARGYRONEURA Coem. Acanthaceae.

Col. No. 18233. Plant to 16 inches high, venation yellowish-green.

246630. FITTONIA VERSCHAFFELTII Coem.

Col. No. 18234. Plant to 16 inches high, venation pinkish-red.

246631. FITTONIA ARGYRONEURA Coem.

Col. No. 18254. Plant to 10 inches high, venation cream-colored.

246632. FITTONIA VERSCHAFFELTII Coem.

Col. No. 18255. Venation deep pink.

246633. PEPEROMIA sp. Piperaceae.

Col. No. 18225. Plants to 18 inches high.

246634. PEPEROMIA sp.

Col. No. 18226. Plant to 10 inches high.

246635. PEPEROMIA sp.

Col. No. 18227. Plant to 12 inches high; leaves dark green mottled with gray.

246636. PEPEROMIA sp.

Col. No. 18228. Plant to 12 inches high.

246637. PEPEROMIA sp.

Col. No. 18229. Plant to 12 inches high.

246638. PEPEROMIA sp.

Col. No. 18230. Plant to 12 inches high.

246639. PEPEROMIA sp.

Col. No. 18231. Plant to 12 inches high.

246640. PEPEROMIA sp.

Col. No. 18232. Plant to 10 inches high; leaves dark green above.

246641. PEPEROMIA sp.

Col. No. 18252. Leaves large, ovate, deep green with pale gray markings.

246642. PHILODENDRON BIPINNATIFIDUM Schott. Araceae.

Col. No. 18258. Plant to three feet high.

246643. PHILODENDRON GIGANTHEUM Schott.

Col. No. 18257. Plant to six feet high; leaves to three feet long, dark green.

246664. PITCAIRNIA sp. Bromeliaceae.

Col. No. 18247. Grows on moist rocks in fairly dense forest.

246645. SOLANUM PSEUDOCAPSICUM L. Solanaceae. **Jerusalem-cherry.**

Col. No. 18269. Plant normally to three feet high, but as a house plant it can be trimmed to about 15 inches; foliage dark green; fruits deep pink.

246646. SOPHRONITIS GRANDIFLORA Lindl. Orchidaceae. **Orchid.**

Col. No. 18251. Plant small; flowers redidsh.

246647. (Undetermined.)

Col. No. 18248. Plant grayish, growing among rocks in garden.

246648. TELFAIRIA PEDATA (J. E. Sm.) Hook. Cucurbitaceae.

From Southern Rhodesia. Seeds presented by E. A. Menninger, Stuart, Florida. Received March 20, 1958.

From Bulawayo. Climbing shrub with edible kernels yielding oil reportedly equal in quality to olive oil.

246649 and 246650. PACHYRHIZUS EROSUS (L.) Urban Fabaceae. **Yam-bean.**

From Mexico. Presented by Gordon B. Ross, Tapachula, Chiapas. Received Mar. 20, 1958.

From Market, Mexico City.

246649. (Tuber.)

246650. (Seeds.)

246651 and 246652.

From New Guinea. Plants presented by the Department of Forests, Division of Botany, Lae. Received Mar. 21, 1958.

246651. NEPENTHES MIRABILIS (Lour.) Druce Nepenthaceae.

246652. TECOMANTHE DENDROPHILA (Blume) K. Schum. Bignoniaceae.

246653. CRINUM ASIATICUM L. Amaryllidaceae. **Poisonbulb.**

From Brazil. Bulbs collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Mar. 21, 1958.

Col. No. 18188. Botanical Garden, Rio de Janeiro. Stems stout; leaves to five feet long; flowers white. Native to Asia.

246654. SORGHUM SUDANENSE (Piper) Stapf Poaceae.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Mar. 24, 1958.

Col. No. 21356. Ruzizi Valley, 45 km. south of Bukavu. Plants 3 meters high; panicles open; stilt roots.

246655 and 246656. MISCANTHUS SINENSIS var. CONDENSATUS (Hack.) Makino. Poaceae.

From Japan. Plants presented by the Kyoto University, Kyoto. Received March 25, 1958.

Collected from Hachyo Island.

246655. 'Imazo'. Male sterile variety with growth habits of 'Yoreba'.

246656. 'Yoreba'. (Leaf twisted.) Vigorous perennial growing in moist soil in warm regions.

246657 and 246658.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received March 25, 1958.

246657. GARCINIA DULCIS (Roxb.) Kurz. Clusiaceae.

Col. No. 21074. 'Apricot de Mexique'. Yangambi Station, Institut National pour l'Etude Agronomique du Congo Belge. Handsome small tree producing unusually good fruit; pulp apricot colored.

246658. PACHIRA AQUATICA Aubl. Bombacaceae. **Guiana-chestnut.**

Col. No. 21075. Yangambi Station, National pour l'Etude Agronomique du Congo Belge. Tree to 10 meters high.

246659. DIOSCOREA FLORIBUNDA Mart. & Gal. Dioscoreaceae.

From Guatemala. Seeds presented by Christian W. Bruhn, Mansion San Francisco, Guatemala City. Received March 25, 1958.

Collected near Patulul, Esquintla.

246660 to 246667.

From Japan. Seeds presented by the Agricultural Experiment Farm, Anno, Nishi-no-omote, Tanegashima. Received Mar. 25, 1958.

246660. CINNAMOMUM BREVIFOLIUM Miq. Lauraceae.

H. S. 881.

246661. CINNAMOMUM DAPHNOIDES Seib. & Zucc.

H. S. 882.

246662 to 246667. CINNAMOMUM sp.

246662. H. S. 875.
246663. H. S. 876.
246664. H. S. 877.
246665. H. S. 878.
246666. H. S. 879.
246667. H. S. 880.

246668. OPUNTIA sp. Cactaceae.

From Brazil. Plant collected by Llewelyn Williams, agricultural explorer, Plant Introduction Section, Crops Research Division, Beltsville, Md. Received March 26, 1958.

Col. No. 18223. 'Figueira do Inferno'. Petropolis. Elevation 2,500 feet. On rocks in garden. Edible.

246669. MALUS PURPUREA f. ELEYII (Bean) Rehder Malaceae.

From Great Britain. Trees presented by R. C .Notcutt Ltd., Woodbridge, Suffolk, England. Received Mar. 26, 1958.

'Neville Copeman'.

246670. PINUS HELDREICHII var. LEUCODERMIS (Ant.) Mark. Pinaceae.

From Greece. Seeds presented by the Forest Research Institute, Ministry of Agriculture, Athens. Received Mar. 12, 1958.

From the Epirus districts for Christmas tree study.

246671. TEPHROSIA VOGELII Hook. f. Fabaceae.

From Liberia. Seeds presented by the Central Experiment Station, Suakoko. Received March 12, 1958.

Grown by the Botanic Research Division, Firestone Plantation, Harbel.

246672 to 246688.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert agricultural explorers, New Crops Research Branch, Crops. Research Division, Beltsville, Md. Received March 13, 1958.

246672. ABROMA AUGUSTA L. f. Sterculiaceae.

Col. No. 21030. Jardin d'Essais de la Mission de Kisantu. Shrub to 1 meter high.

246673. ABRUS PRECATORIUS L. Fabaceae. **Rosarypea.**

Col. No. 21009. Bana, an abandoned village site 25 kms. east of Leopoldville. Shrub to 1 meter high; leaves have strong licorice flavor.

246674. ALOE sp. Liliaceae.

Col. No. 21054. Jardin d'Essais de la Mission de Kisantu. Red flowers about 4 cm. long.

246675. ASTERACANTHA LONGIFOLIA (L.) Nees Acanthaceae.

Col. No. 21028. Jardin d'Essais de la Mission de Kisantu. Plant to 1 meter high.

246676. CLAPPERTONIA FICIFOLIA (Wild.) Dcne. Tiliaceae.

Col. No. 21032. Jardin d'Essais de la Mission de Kisantu. Shrub to 2 meters high.

246677. DATURICARPA ELLIPTICA Stapf Apocynaceae.

Col. No. 21043. Jardin d'Essais de la Mission de Kisantu. Shrub to 2 meters high. Beautiful spiny, orange fruits, 5 cm. in diameter.

246678. DRACAENA sp. Liliaceae.

Col. No. 21014. Forests from Leopoldville to Kisantu. Tree to 30 meters high.

246679. NEPHTHYTIS AFZELII Schott. Araceae.

Col. No. 21035. Jardin d'Essais de la Mission de Kisantu. Terrestrial aroid.

246680. POUCHETIA AFRICANA A. Rich. ex DC. Rubiaceae.

Col. No. 21053. Jardin d'Essais de la Mission de Kisantu. Shrub to two meters high berries red, size of coffee cherry.

246681. RAPHIA LAURENTII DeWild. Phoenicaceae. **Palm.**

Col. No. 21048. Jardin d'Essais de la Mission de Kisantu. Palm grown along water; leaves to 10 meters long.

246682. RAUVOLFIA LONGIACUMINATA DeWild. & T. Dur. Apocynaceae. **Devilpepper.**

Col. No. 21034. Jardin d'Essais de la Mission de Kisantu. Shrub to one meter high; fruits red.

246683. RAUVOLFIA NANA E. A. Bruce **Devilpepper.**

Col. No. 21012. Manguele forest region, 20 kms. east of Leopoldville. Shrub to two meters high; berries red.

246684. RAUVOLFIA OBSCURA K. Schum. **Devilpepper.**

Col. No. 21007. Kisantu Botanical Garden. Shrub to one meter high; fruits red, one seeded.

246685. SIDA sp. Malvaceae.

Col. No. 21056. About 25 kms. northeast of Kisantu. Plant to one meter high; flowers yellow, two cm. in diameter.

246686. TABERNANTHE IBOGA Baill. Apocynaceae.

Col. No. 21006. Botanical Garden, Kistanu. Shrub native of lower Congo. Fruits orange when ripe, to 7 cm. long; seeds imbedded. Used as medicine.

246687. TABERNANTHE sp. Apocynaceae.

Col. No. 21044. Jardin d'Essais de la Mission de Kisantu. Shrub to two meters high.

246688. TEPHROSIA NOCTIFLORA Bojer Fabaceae.

Col. No. 21033. Jardin d'Essais de la Mission de Kisantu. Plant to 80 cm. high.

246689. TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

From Finland. Seeds furnished by the Research Center, Department of Plant Husbandry, Tikkurila. Received Mar. 14, 1958. Tetraploid.

246690 to 246726. SORGHUM BICOLOR (L.) Moench Poaceae.

From India. Seeds presented by the Rockefeller Foundation, New Delhi. Received Mar. 15, 1958.

246690 to 246692. Sirsa, Punjab 1956.

246690. No. 1015. I. C. 3670 (T/85).

246691. No. 1016. I. C. 3669 (T/83).

246692. No. 1017. I. C. 3668 (T/62).

246693 and 246694. Punjab 1956.

246693. No. 1018. I. C. 3666 (Type 29/1).

246694. No. 1019. I. C. 3663 (Type 263).

246695 to 246697. Kanpur, U. P. 1956.

246695. No. 1020. I.C. 4360 (T. 8B).

246696. No. 1021. I.C. 4359 (T. 318).

246697. No. 1022. I.C. 4348 (T. 3).

246698 to 246702. Delhi local. Delhi 1956.

246698. No. 1023. I.C. 1592.

246699. No. 1024. I.C. 1588.

246700. No. 1025. I.C. 1587.

246701. No. 1026. I.C. 1584.

246702. No. 1027. I.C. 1583.

246703. No. 1028. I.C. 3494. (Gwalior 10–7) Gwalior, M.P. 1956.

246704 and 246705. Nagpur 1956.

246704. No. 1029. I.C. 3443 (Improved Ramket).

246705. No. 1030. I.C. 3442 (Improved Saoner).

246706. No. 1031. I.C. 3441 (N.J. 156) Nagpur, Bombay 1956.

246707. No. 1032. I.C. 1517 (Early Prodigy) Gwalior, M. P.

246708 to 246719. Bombay.

246708. No. 1033. I.C. 1460 (Local) Surat.

246709. No. 1034. I.C. 3436 (Maldandi 35/1) Sholapur.

246710. No. 1035. I.C. 3527 (No. 8) Bhuwa, Surat.

246711. No. 1036. I.C. 3560 (Palitana Dholio–3) Aliabada.

246712. No. 1037. I.C. 3562 (Junagadh Dholio), Aliabada.

246713. No. 1038. I.C. 3563 (Verawal Dholio) Aliabada.

246714. No. 1039. I.C. 3536 (P.J. 5–R) Rabi Jowar, Parbhami.

246715. No. 1040. I.C. 3535 (S.E.S.) Parbhani.

246716. No. 1041. I.C. 3534 (P.J. 7–R) Rabi Jowar, Parbhani.

246717. No. 1042. I.C. 3533 (P.J. 4–R) Rabi Jowar, Parbhani.

246718. No. 1043. I.C. 3532 (P.J. 24–K) Parbhani.

246719. No. 1044. I.C. 3528 (P.J. 1–K) Parbhani.

246720 and 246721. Nandyal, Andhra 1956.

246720. No. 1045. I.C. 4315 (H.1).

246721. No. 1046. I.C. 4314 (N.1).

246722 to 246726. Coimbatore, Madras, 1956.

246722. No. 1047. I.C. 3782 (Co. 18).

246723. No. 1048. I.C. 3781 (Co. 12).

246724. No. 1049. I.C. 3779 (Co. 9).

246725. No. 1050. I.C. 3775 (Co. 1).

246726. No. 1051. I.C. 3777 (Co. 4).

246727 to 246752.

From Maryland. Seeds presented by the National Plant Materials Center, Beltsville, Md. Received March 21, 1958.

Originally from the Madrid Botanical Garden, Madrid, Spain.

246727. ASTRAGALUS CICER L. Fabaceae.

BN–7876.

246728. ASTRAGALUS sp.

BN–7886. Received as *A. utriger* Pall. A low herbaceous perennial to 10 inches high with a 1.5 foot spread; flowers colored. A cool season plant native to Asia Minor.

246729. CORONILLA VIMINALIS Salisb. Fabaceae.

BN–7891. A trailing shrub; flowers pale-red or white striped with red formed in small umbels. Native to Algeria, tender at Beltsville.

246730. LOTUS CORNICULATUS var. CILIATUS (Tenore) C. Koch Fabaceae.

BN–7905. Annual to 1.5 foot high; peduncle twice as long as leaf, 1-to-2-flowered; calyx longer than the tube; corolla yellow, keel obtuse-angled pod slender, straight, 5 to 7 times as long as calyx. Flowers April and May.

246731. LOTUS TENUIS Waldst. & Kit. ex Willd.

BN–7907. Perennial to 2 feet high, shrubby at the base; resembling *L. corniculatus*, except leaves are narrower and the flowers are usually pink. One of the few pasture-producing legumes of Australia. Plant somewhat poisonous (hydrocyanic acid).

246732 and 246733. LOTUS CORNICULATUS var. CILIATUS (Tenore) C. Koch **Trefoil.**

246732. BN–7909.

246733. BN–8864.

246734. LOTUS TENUIS Waldst & Kit. ex Willd.

BN–7910.

246735. LOTUS CORNICULATUS. **Birdsfoot trefoil.**

BN–7912. Perennial with trailing robust stems, often 2 feet long; flowers yellow, clustered in heads of 2 to 3.

246736 to 246739. LOTUS TENUIS Waldst. & Kit. ex Willd. **Trefoil.**

246736. BN–7906. **246738.** BN–7915.

246737 BN–7911. **246739.** BN–7916.

246740 and 246741. MEDICAGO POLYMORPHA var. VULGARIS (Benth.) Shinners Fabaceae. **California burclover.**

246740. BN–7921.

246741. BN–7929.

246742. MEDICAGO SATIVA L. **Alfalfa.**

BN–7919.

246743. ONONIS NATRIX L. Fabaceae.

BN–8588. Showy shrub to three feet high; leaflets oblong, denticulate; flowers yellow, in terminal leafy racemes, standard striped with red; pods linear, about twice as long as calyx. Seeds 6 to 9, tuberculate.

246744. PSORALEA BITUMINOSA L. Fabaceae. **Scurf-pea.**

BN–8690. Perennial to 3.5 feet high, leafy; flowers blue; calyx lobes subulate, longer than tube; pod hirsute, ovate, flattened, exserted beak.

246745 and 246746. PSORALEA DENTATA DC.

Perennial to one foot high, sparsely leaved; flowers white; keel purple.

246745. BN–8589.

246746. BN–8591.

246747. PSORALEA TENAX Lindl.

Erect, vigorous perennial to two feet high; flowers small, blue or purple, very shortly pedicellate in dense interrupted racemes; pod ovoid, slightly pubescent. Native to Australia.

246748. PSORALEA BITUMINOSA L. **Scurf-pea.**

BN–7949. Perennial to two feet high with spreading habit. Native to Africa.

246749 and 246750. TRIFOLIUM FRAGIFERUM L. Fabaceae. **Strawberry clover.**

246749. BN–7956.

246750. BN–7957.

246751. TRIFOLIUM HYBRIDUM L. **Alsike clover.**

BN–7959.

246752. TRIFOLIUM VESICULOSUM Savi

BN–7961. Glabrous annual; stems elongate, ascending or diffuse; heads ovate; base usually naked; calyx teeth nearly equal; corolla purple.

246753 to 246783.

From Japan. Seeds presented by the Forestry Experiment Station, Ministry of Agriculture and Forestry, Aomori, Honshu. Received March 21, 1958.

246753. ACANTHOPANAX DIVARICATUM (Sieb. & Zucc.) Seem. Araliaceae.

Natsudomari Peninsula, Aomori Prefecture.

246754. AMPELOPSIS BREVIPEDUNCULATA var. MAXIMOWICZII (Regel) Rehder Vitaceae.

Mount Iwate, Iwate Prefecture.

246755. ARDISIA JAPONICA (Thunb.) Blume Myrsinaceae.

Sendai, Miyagi Prefecture.

246756. ARUNDINELLA HIRTA (Thunb.) C. Tanaka Poaceae.

Sendai, Miyagi Prefecture.

246757. ASTER SCABER Thunb. Asteraceae.

Nenoshiroishi near Sendai, Miyagi Prefecture.

246758. ASTILBE THUNBERGII var. CONGESTA Boissieu Saxifragaceae.

Aomori, Aomori Prefecture.

246759. ASTILBE THUNBERGII (Sieb. & Zucc.) Miq.

Sendai, Miyagi Prefecture.

246760. CALAMAGROSTIS ARUNDINACEA Roth Poaceae. **Reedgrass.**

Sendai, Miyagi Prefecture.

246761 and 246762. CAMELLIA JAPONICA L. Theaceae. **Common camelia.**

246761. Takata, southeastern limit, Iwate Prefecture.

246762. Tamaura, near Sendai, Miyagi Prefecture.

246763. CHRYSANTHEMUM YEZOENSE Maekawa Asteraceae.

Aomori, Aomori Prefecture.

246764. CYMBOPOGON TORTILIS (Presl) Camus Poaceae. **Turpentine grass.**

Sendai, Miyago Prefecture.

246765. HYPERICUM ERECTUM Thunb. Hypericaceae. **St.-Johns-wort.**

Aomori Branch Station, Shinoda, Okidate, Aomori City.

246766. ISCHAEMUM ANTHEPHOROIDES (Steud.) Miq. Poaceae.

Tamaura, near Sendai, Miyagi Prefecture.

246767. ISCHAEMUM CRASSIPES (Steud.) Thell.

Tamaura, near Sendai, Miyagi Prefecture.

246768. LESPEDEZA STRIATA (Thunb.) Hook. & Arn. Fabaceae. **Common lespedeza.**

Tsurugasaka, near Aomori, Aomori Prefecture.

246769. LESPEDEZA CUNEATA (Dum.-Cours.) G. Don Fabaceae **Chinese lespedeza.**

Sendai, Miyagi Prefecture.

246770. LESPEDEZA × INTERMIXTA Makino **Bushclover.**

Tamaura, near Sendai, Miyagi Prefecture.

246771. LESPEDEZA PILOSA (Thunb.) Sieb. & Zucc. **Bushclover.**
Sendai, Miyagi Prefecture.

246772. LILIUM AURATUM Lindl. Liliaceae. **Goldband lily.**
Nenoshiroishi, near Sendai, Miyagi Prefecture.

246773. MISCANTHUS SINENSIS Anderss. Poaceae. **Chinese silvergrass.**
Sendai, Miyagi Prefecture.

246774. NEOLITSEA SERICEA (Blume) Koidz Lauraceae.
Sendai, Miyagi Prefecture.

246775. POLYGONUM SACHALINENSE F. Schmidt ex Maxim. Polygonaceae. **Sacaline.**
Mount Iwate, Iwate Prefecture.

246776. ROSA RUGOSA Thunb. Rosaceae. **Rugosa rose.**
Aomori, Aomori Prefecture.

246777. SANGUISORBA OFFICINALIS L. Rosaceae.
Sendai, Miyagi Prefecture.

246778. SANGUISORBA TENUIFOLIA var. ALBA Traut. & Mey.
Asamushi, near Aomori, Aomori Prefecture.

246779. SCIRPUS FUIRENOIDES Maxim. Cyperaceae.
Sendai, Miyagi Prefecture.

246780. SORBARIA SORBIFOLIA var. STELLIPILA Maxim. Rosaceae.
Aomori Branch Station, Shinoda, Okidate, Aomori City.

246781. SPODIOPOGON SIBIRICUS Trin. Poaceae.
Sendai, Miyagi Prefecture.

246782. THEMEDA JAPONICA (Willd.) C. Tanaka Poaceae. **Redgrass.**
Sendai, Miyagi Prefecture.

246783. VICIA AMOENA Fisch. Fabaceae.
Tsurugasaka, near Aomori, Aomori Prefecture.

246784. CITROPSIS DAWEANA Swing. & M. Kell. Rutaceae.

From Southern Rhodesia. Budsticks presented by the Agricultural Experiment Station, Federal Ministry of Agriculture, Causeway. Received March 26, 1958.

From Tree No. 1/6, Grove 42L, Mazoe Citrus Estate.

246785 to 246799. HORDEUM VULGARE L. Poaceae. **Common barley.**

From Colombia. Seeds presented by the Rockefeller Foundation, Bogota. Received March 27, 1958.

Collected from farmers' fields.

246785. C. N. 42
246786. C. N. 48.
246787. C. N. 51.
246788. C. N. 58.
246789. C. N. 60.
246790. C. N. 93.
246791. C. N. 94.
246792. C. N. 100.
246793. C. N. 119.
246794. C. N. 146.
246795. C. N. 271.
246796. C. N. 336.
246797. DC.2N (1222 ('Fun' × 'Ki')) II–829–5B–4B–IT–5B (1–48N).
246798. DC.2N (1222 ('Fun' × 'Ki')) II–829–5B–4B–IT–3B (1–50N).
246799. DC.2N (1222 ('Fun' × 'Ki')) II–829–5B–4B–IT–4B (1–51N).

246800. CEROXYLON ANDICOLA Humb. & Bonpl. Phoenicaceae. **Palm.**

From Panama. Plant presented by Mrs. Charles Morgan, Diabolo Heights. Received March 27, 1958.

246801 to 246805. TRIFOLIUM REPENS L. Fabaceae. **Whiteclover.**

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received March 28, 1958.

246801. Ac. 24. Originally from Hohenheim, Germany.

246802. C.P.I. 13834. Originally from Canberra.

246803. 'Brunnings' Ladina'. (commercial strain.)

246804. 128–3—Diploid.

246805. 113–1—Tetraploid.

246806 and 246807. SIMMONDSIA CHINENSIS (Link) S. Schneid. Buxaceae. **Jojoba.**

From Arizona and Mexico. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received March 28, 1958.

246806. Col. No. 16835. South of Camp Creek, Arizona.

246807. Col. No. 16845. By Rancho Santa Marta, Baja California, Mexico.

246808. CORONILLA VARIA L. Fabaceae. **Crownvetch.**

From the United States. Seeds held at the Regional Plant Introduction Station, Ames, Iowa. Numbered March 28, 1958.

Endemic strain from the farm of Mrs. Margaret McIntire, between Decorah and Calmar, Winneshiek County, Iowa. Original source unknown. Very vigorous, used by Soil Conservation Service technicians for waterway protection, pasture and forage.

246809 to 246813. SACCHARUM (hybrid). Poaceae. **Sugarcane.**

From the United States Virgin Islands. Cuttings presented by the Virgin Islands, Agricultural Program, Kingshill, St. Croix. Received March 31, 1958.

246809. 'Brazilian'.

246810. 'Old Jamaica'.

246811. 'Old Java'.

246812. 'Red Ribbon'.

246813. 'White'.

246814 to 246925.

From Brazil. Plants collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 1, 1958.

Collected at Vivero Manequinho Lopes, Sao Paulo.

246814. ABELIA sp. Caprifoliaceae.

Col. No. 18359. Shrub to 10 feet high; flowers pale pinkish to white.

246815. ABUTILON MEGAPOTAMICUM St. Hil. & Naud. Malvaceae.

Col. No. 18321. 'Campainha; Bencoa de Deus'. Creeper with campanulate flowers.

246816. ACACIA CULTRIFORMIS A. Cunn. Mimosaceae. **Knife acacia.**

Col. No. 18388. Wide spreading shrub to 25 feet high; leaves silvery-gray; flowers fragrant, yellow.

246817. ACALYPHA sp. Euphorbiaceae.

Col. No. 18329. 'Cauda de Reposo'. Dwarf-red variety to 18 inches high.

246818. ACALYPHA sp.

Col. No. 18330. 'Marmorata'. Marbled variety; leaves green, margined with creamy-white.

246819 to 246821. ACALYPHA WILKESIANA Muell.-Arg.

246819. Col. No. 18331. Shrub to 10 feet high.

246820. Col. No. 18332. Shrub to 10 feet high.

246821. Col. No. 18333. Shrub to 10 feet high.

246822. AGLAIA ODORATA Lour. Meliaceae.

Col. No. 18387. Shrub to 18 feet high; foliage dark green.

246823. ALLAMANDA SCHOTTII Pohl. Apocynaceae.

Col. No. 18339. Woody climber; flowers clear yellow.

246824. AMARANTHUS TRICOLOR L. Amaranthaceae.

Col. No. 18429. Garden of Alberto Marques.

246825. ARRHENATHERUM ELATIUS var. BULBOSUM f. STRIATUM (Hubbard) L.B. Sm. Poaceae.

246826. ASPIDOSPERMA POLYNEURON Muell.-Arg. Apocynaceae.

Col. No. 18414. 'Peroba Rosa'. Tree to 75 feet high; flowers small, white.

246827. HOMALOCLADIUM PLATYCLADUM (F. Muell.) Bailey. Asteraceae.

Col. No. 18380. 'Carqueja'. Plant to 12 feet high; leaves light green; flowers minute, white.

246828. BAUHINIA sp. Caesalpiniaceae.

Col. No. 18328. 'Unha de Yacca'. Slender shrub to 9 feet high; flowers white, at tips of branchlets.

246829. BELOPERONE sp. Acanthaceae.

Col. No. 18406. Bush to 6 feet high, usually in fairly dense clumps.

246830. BOUGAINVILLEA SPECTABILIS Willd. Nyctaginaceae. **Great bougainvillea.**

Col. No. 18420. 'Tres Marias'. Flowers purple.

246831. CAESALPINIA ECHINATA Lam. Caesalpiniaceae.

Col. No. 18351. 'Pau Brasil'. Tree to 20 feet high. Grows best in hot climate, especially along the coast.

246832. CAESALPINIA PULCHERRIMA (L.) Swartz. **Flowerfence.**

Col. No. 18350. Tall shrub or small tree to 12 feet high; flowers large, yellow or orange-red.

246833. CALLIANDRA sp. Mimosaceae.

Col. No. 18346. 'Inga Pulcherrima Vermelho'. Shrub to 6 feet high, rather dense and wide-spreading; stamens scarlet.

246834. CASSIA MULTIJUGA L. Rich. Caesalpiniaceae. **Senna.**

Col. No. 18405. 'Canuda du Peto'. Tree to 25 feet high; flowers bright yellow, in showy sprays.

246835. CASUARINA SUBEROSA Otto & Dietr. Casuarinaceae.

Col. No. 18369. 'Casuarina Saborosa'. Tree to 60 feet high; needles purplish-brown.

246836. CEDRELA sp. Meliaceae.

Col. No. 18349. 'Cedro'. Tree to 60 feet high.

246837. CESTRUM sp. Solanaceae.

Col. No. 18344. 'Dama de Noite'. Shrub to 12 feet high; flowers small, greenish-white, with a cloverlike fragrance at night.

246838. CHORISIA SPECIOSA St. Hil. Bombacaceae. **Floss-silk tree.**

Col. No. 18382. 'Paineira Branca'. Tree to 70 feet high, with rounded crown; flowers red at tip and white at base.

246839. CLERODENDRUM THOMSONAE Balf. f. Verbenaceae.
Thomson glorybower.

Col. No. 18353. 'Largrima Cristi'. Woody vine; flowers white with red centers.

246840. COLEUS sp. Menthaceae.

Col. No. 18336.

246841. CROTON ADIPATUS H. B. K. Euphorbiaceae.

Col. No. 18325. Shrubs to 3 feet high; leaves linear dark-green with yellow markings.

246842. CUPRESSUS SEMPERVIRENS L. Pinaceae. **Italian cypress.**

Col. No. 18366. Tree to 60 feet high, with dark green pyramidal crown.

246843. DELONIX REGIA (Boj.) Raf. Caesalpiniaceae. **Royal poinciana.**

Col. No. 18409. 'Flamboyant'. Small to medium-sized tree.

246844. CORDYLINE INDIVISA (Forst.) Steud. Liliaceae. **Blue dracena.**

Col. No. 18404. Plant to 18 feet high; trunk erect; flowers white, in large clusters.

246845. CORDYLINE BAUERI Hook. f.

Col. No. 18391. Plant to 15 feet high; leaves with creamy-yellow strip along center.

246846. DRACAENA sp. Liliaceae.

Col. No. 18392. Plant to 18 feet high; leaves light- to deep-purple.

246847. CORDYLINE AUSTRALIS (Forst.) Hook. Liliaceae. **Green dracena.**

Col. No. 18393. 'Veitchii'. Plant to 6 feet high; leaves dark green with thin brown edge.

246848. DRACAENA sp. Liliaceae

Col. No. 18394. Plant to 6 feet high; young leaves pale purplish.

246849. DRACAENA sp.

Col. No. 18395. Plant to 9 feet high.

246850. DRACAENA sp.

Col. No. 18396. Plant to 9 feet high; leaves uniform green.

246851. COTYLEDON GIBBIFLORA Moc. & Sesse Crassulaceae.

Col. No. 18401. Low plant; leaves thick, gray. Suitable for borders.

246852. ERYTHROXYLON COCA Lam. Erythroxylaceae. **Cocaine-plant.**

Col. No. 18355. Shrub to 3 feet high; foliage yellowish-green.

246853. ESENBECKIA LEIOCARPA Engl. Rutaceae.

Col. No. 18417. 'Guaranta'. Tree to 55 feet high; wood hard, suitable for ax handles.

246854. EUCALYPTUS PULVERULENTA Sims Myrtaceae.

Col. No. 18322. Tree to 30 feet high; bark white, ribbony; young leaves very glaucous, mature leaves cordate to elliptic.

246855. EUONYMUS sp. Celastraceae.

Col. No. 18373. Plant to 2.5 feet high; leaves small, dark green.

246856. EUONYMUS sp.

Col. No. 18386. Evergreen shrub to 15 feet high; leaves dark-green, with creamy-border.

246857. EUONYMUS sp.

Col. No. 18407. Shrub to 2 feet high; young leaves yellowish.

246858. EUPHORBIA SPENDENS Boj. Euphorbiaceae.

Col. No. 18408. Small shrub used for hedge rows; flowers clustered, scarlet.

246859. FICUS BENJAMINA L. Moraceae. **Benjamin fig.**

Col. No. 18372. Wide-spreading tree; leaves small, lustrous. Planted for hedges.

246860 and 246861. FICUS ROXBURGHII Wall. **Roxburgh fig.**

246860. Col. No. 18390. Tree to 100 feet high; crown round, full; fruit is clustered along trunk and branches.

246861. Col. No. 18412. Tree to 30 feet high; crown wide-spreading umbel-shaped; fruit clustered along trunk and main branches.

246862. FIELDIA sp. Gesneriaceae.

Col. No. 18398. Plant to one foot high; flowers yellow.

246863. GENISTA sp. Fabaceae.

Col. No. 18354. 'Genista Amarelho'. Shrub to 10 feet high.

246864. GNAPHALIUM JAPONICUM Thunb. Asteraceae.

Col. No. 18337. Plant to 18 inches high; leaves grayish, with thick pubescence.

246865. HOLOCALYX sp. Caesalpiniaceae.

Col. No. 18419. Tree to 45 feet high; flowers small, white.

246866. HYMENOCALLIS sp. Amaryllidaceae.

Col. No. 18375. Flowers orange-yellow.

246867. HYMENOCALLIS FLAVA L.

Col. No. 18376. Leaves to 15 inches long; flowers light yellow.

246868. OSMANTHUS HETEROPHYLLUS (G. Don) P. S. Green Oleaceae.

Col No. 18377. Tree to 15 feet high, but does not produce berries in Sao Paulo.

246869. IRESINE LINDENII Van Houtte Amaranthaceae.

Col. No. 18335. Foliage deep red.

246870. IRIS GERMANICA L. Iridaceae. **German iris.**

Col. No. 18400. 'Lirio Azul'. Leaves to 18 inches long; flowers purplish.

246871. MORAEA IRIDIOIDES L. Iridaceae. **Iris moraea.**

Col. No. 18399. Plant with dark green foliage; flowers white, center darker.

246872. JACARANDA MIMOSIFOLIA D. Don Bignoniaceae. **Green-ebony.**

Col. No. 18413. Tree to 30 feet high; trunk upright; flowers blue.

246873. JASMINUM sp. Oleaceae.

Col. No. 18370. Shrub to five feet high; flowers white, very fragrant, suggesting a small rose in appearance.

246874. JASMINUM MULTIFLORUM (Burm. f.) Andrews **Jasmine.**

Col. No. 18368. Climber; flowers white, in clusters, very fragrant.

246875. LAGERSTROEMIA INDICA L. Lythraceae. **Common crapemyrtle.**

Col. No. 18416. Shrub or tree to 30 feet high.

246876. MICHELIA FUSCATA Blume Magnoliaceae.

Col. No. 18378. Shrub to eight feet high; foliage dense; flowers purplish to white.

246877. MAGNOLIA sp. Magnoliaceae.

Col. No. 18347. 'Magnolia Branca'. Tree to 30 feet high; flowers said to be large and white.

246878. MELIA AZEDARACH L. Meliaceae. **Chinaberry.**

Col. No. 18410. 'Paraiso Cinamomo'. Rapid growing tree to 55 feet high; foliage dense.

246879. MESEMBRYANTHEMUM VARIABLE Haw. Aizoaceae. **Figmarigold.**

Col. No. 18402. Low succulent plant; flowers rose colored or yellow.

246880. MICHELIA CHAMPACA L. Magnoliaceae. **Champac.**

Col. No. 18381. 'Magnolia Amarelha'. Tree to 30 feet high; leaves large, lanceolate; flowers greenish-yellow, fragrant.

246881. MUEHLENBECKIA sp. Polygonaceae.

Col. No. 18342. Stems to three feet high.

246882. SERISSA FOETIDA (L.f.) Lam. Rubiaceae.

Col. No. 18338. Shrub to three feet high, used as a hedge; flowers white, small.

246883. NERIUM OLEANDER L. Apocynaceae. **Oleander.**

Col. No. 18348. 'Espirraderia'. Shrub to 12 feet high; flowers deep rose-colored.

246884. OCHNA sp. Ochnaceae.

Col. No. 18358. Shrub to eight feet high; foliage dark green, suitable for hedges; flowers yellow.

246885. CHLOROPHYTON CAPENSE (L.) Kuntze Liliaceae.

Col. No. 18421. Leaves to 15 inches long with creamy-white center stripe.

246886. PELARGONIUM sp. Geraniaceae.

Col. No. 18397. Climbing plant; flowers rose-colored, in large clusters.

246887. ANTHERICUM sp. Liliaceae.

Col. No. 18422. Suitable as a border plant.

246888. PHILADELPHUS sp. Hydrangeaceae.

Col. No. 18360. Shrub to 9 feet high; flowers white.

246889. PHOENIX ROEBELENII O'Brien Phoenicaceae. **Palm.**

Col. No. 18411. Palm to 12 feet high; leaves pinnate, long.

246890. PILEA sp.

Col. No. 18323. Small ornamental plant.

246891. PIPTADENIA COMMUNIS Benth. Mimosaceae. **Cebil.**

Col. No. 18371. 'Jacare'. Tree to 75 feet high with a rounded crown; bark rough.

246892. PITTOSPORUM UNDULATUM Vent. Pittosporaceae. **Orange pittosporum.**

Col. No. 18327. Wide-spreading shrub to 10 feet high.

246893. PODOCARPUS SELLOWII Klotzsch. Taxaceae.

Col. No. 18379. Tree to 45 feet high.

246894. POPULUS NIGRA var. ITALICA Muenchh. Salicaceae. **Lombardy poplar.**

Col. No. 18383. Tall tree with narrow crown; branches slender.

246895. PYRACANTHA sp. Malaceae. **Firethorn.**

Col. No. 18318. Shrub to 15 feet high; flowers small, white; fruit orange.

246896. RUSSELIA sp. Scrophulariaceae.

Col. No. 18340. Plant to 3 feet high; flowers small, scarlet.

246897. SALIX BABYLONICA L. Salicaceae. **Babylon weeping willow.**

Col. No. 18345. Tree to 30 feet high.

246898. SALVIA sp. Menthaceae.

Col. No. 18374. Plant to 3 feet high; leaves medium to dark-green; flowers clustered, deep pink.

246899. SANCHEZIA sp. Acanthaceae.

Col. No. 18326. Shrub to 3 feet high; leaves green with yellowish venation.

246900. SANSEVIERIA sp. Liliaceae.

Col. No. 18403. Leaves to 3 feet long.

246901. SANSEVIERIA sp.

Col. No. 18415. Leaves dark-green with gray bands and yellow edge.

246902. SCHIZOLOBIUM PARAHYBUM (Vell.) Blake Caesalpiniaceae. **Bacurubu.**

Col. No. 18357. 'Guapuruvu'. Fast-growing tree to 75 feet high.

246903. SELAGINELLA sp. Selaginellaceae.

Col. No. 18433. A good ground cover in shade.

246904. SOLANUM HENDERSONII W. F. Wight Solanaceae.

Col. No. 18341. Plant to 2.5 feet high; fruit deep orange.

246905. SOLANUM SEAFORTHIANUM Andr. **Brazilian nightshade.**

Col. No. 18389. Climber with purplish or blue flowers.

246906. SPIRAEA DISCOLOR Pursh Rosaceae.

Col. No. 18361. 'Coroa de Noiva'. Wide-spreading, bushy shrub to 9 feet high; flowers white.

246907. STACHYS PALAESTINA L. Menthaceae.

Col. No. 18384. 'Orelho de Urso'. Small plant; leaves thick furry, silver-gray.

246908. STROBILANTHES sp. Acanthaceae.

Col. No. 18343. Plant to 5 feet high; leaves dark green above, purplish iridescent below.

246909. TAMARIX sp. Tamaricaceae.

Col. No. 18352. Tree to 45 feet high, erect.

246910. TECOMA LAPACHO K. Schum. Bignoniaceae.

Col. No. 18320. Tree to 30 feet high; flowers golden-yellow.

246911. THUNBERGIA ERECTA (Benth.) Anders. Acanthaceae. **Clockvine.**

Col. No. 18363. Shrub to six feet high; flowers blue-purple with creamy-white throat.

246912. THUNBERGIA LAURIFOLIA Lindl. **Laurel clockvine.**

Col. No. 18362. 'Carulia'. Shrub becoming scandent; flowers purplish.

246913. TIBOUCHINA HOLOSERICEA Baill. Melastomataceae.

Col. No. 18317. Shrub to nine feet high; flowers purplish.

246914. TIBOUCHINA sp.

Col. No. 18319. Tree to 30 feet high; flowers rosy-pink.

246915. TIBOUCHINA sp.

Col. No. 18431. Shrub to four feet high, fairly wide-spreading; flowers deep wine-colored.

246916. TRADESCANTIA sp. Commelinaceae.

Col. No. 18365. Leaves form a large rosette; flowers pale purple to red.

246917. VANILLA PLANIFOLIA Andr. Orchidaceae. **Mexican vanilla.**

Col. No. 18385. 'Baunilha'.

246918. WISTERIA SINENSIS (Sims) Sweet Fabaceae. **Chinese wisteria.**

Col. No. 18418. Climber; flowers fragrant, lilac-colored in pendent clusters.

246919. EUGENIA sp. Myrtaceae.

Col. No. 18324. Grown as a hedge to 10 feet high; flowers small, white.

246920. MALPIGHIA COCCIGERA L. Malpighiaceae.

Col. No. 18356. 'Sapato de Judeo'. Woody vine; flowers purplish.

246921. (Undetermined.)

Col. No. 18367. Woody vine; flowers white with purple throat.

246922. (Undetermined.)

Col. No. 18434. No field note.

246923. PHILADELPHUS sp. Hydrangeaceae.

Col. No. 18360. See note under P.I. 246888.

246924. OPUNTIA sp. Cactaceae.

Col. No. 18223. See note under P.I. 246668.

246925. (Undetermined.)

No number or field note.

246926 and 246927.

From Africa. Bulbs collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 2, 1958.

246926. GLADIOLUS sp. Iridaceae.

Col. No. 21422. In mountains about 75 km. west of Astrida, Ruanda-Urundi. Plants to 1 meter high; flowers fairly large, orange-red, wild.

246927. GLADIOLUS sp. Iridaceae.

Col. No. 21453. Northern Rhodesia, border with Belgian Congo, about 50 km. southeast of Elizabethville.

246928 to 246932.

From Afghanistan. Seeds presented by the United States Operations Mission, Kabul. Received April 2, 1958.

246928. BRASSICA RAPA L. Brassicaceae. **Turnip.**

Roots not uniform in shape but the spherical form predominates, red-skinned, of good quality; leaves smooth.

246929. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

Mixed seeds from choice melons purchased in Kabul bazaars, mostly from firm-fleshed fruits, similar to 'Casaba' or 'Honeydew', but of various shapes, size, flesh color and flavor.

246930. CUCUMIS SATIVUS L. **Cucumber.**

From Jalalabad. Plant vigorous and prolific; fruit short, cylindrical, early; skin smooth, brown, leatherlike when ripe; spines black.

246931. LUFFA ACUTANGULA (L.) Roxb. Cucurbitaceae **Singkwa towelgourd.**

Aliabad Experiment Station, Kabul. Edible gourd of medium size; skin gray with geometric ridging on the surface; flesh somewhat gelatinous in texture; flavor good.

246932. SOLANUM MELONGENA L. Solanaceae. **Eggplant.**

Purchased at Dural-malamine, near Kabul. A long-fruited, midseason type, golden yellow at maturity.

246933 and 246934.

From Great Britain. Plants presented by George Jackman & Son, Woking, Surrey, England. Received April 2, 1958.

246933. FRAXINUS EXCELSIOR L. Oleaceae. **European ash.**

'Aurea'.

246934. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

'Gibbs Golden Gage'. A self-continuing race of very small ornamental trees. Usually called the 'Paradise' apple.

246935 to 246988.

From Ecuador. Collected by Donavan S. Correll, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 2, 1958. Tubers unless otherwise noted.

246935. BEGONIA sp. Begoniaceae.

Col. No. E–329. High banks along river near Guaseintos, Chimborazo. Elevation 2,400 meters. Stems and leaves from bulbous base.

246936. IPOMOEA sp. Convolvulaceae.

Col. No. E–378. On small farm, Yungquilla Pasuba, Azuay. Tuber, skin and flesh white.

246937. SOLANUM sp. Solanaceae.

Col. No. E–301. 'Castilla'; 'Limona'. Near Tacunga, Cotopaxi. Tubers globose-irregular; skin bronze; eyes deep; flesh deep golden-yellow. Very appetizing.

246938. SOLANUM sp.

Col. No. E–302. 'Chucopapa'. Origin near Riobamba; grown at Simon Rodriguez Agricultural School, Zatacunga. Tubers ellipsoid; skin purplish; eyes shallow; flesh whitish.

246939. SOLANUM sp.

Col. No. E–303. 'Jardinera'. Market, Ambato. Tubers ellipsoid compressed; skin reddish-purple; flesh yellowish.

246940. SOLANUM sp.

Col. No. E–315. 'Chaucha'. Market, Tungurahua. Tubers oval; skin purple; eyes deep; flesh yellowish-white.

246941. SOLANUM sp.

Col. No. E–316. 'Leona Nigra'. Market, Banos, Tungurahua. Tubers globose, compressed; skin purplish; eyes shallow; flesh yellow.

246942. SOLANUM sp.

Col. No. E–317. 'Santa Rosa'. Market, Banos, Tungurahua. Tubers ellipsoid to ovoid; skin light brown; eyes shallow; flesh deep yellow.

246943. SOLANUM SP.

Col. No. E–318. 'Yungara Negra'. Market, Banos, Tungurahua. Tubers globose; skin purple; eyes shallow; flesh deep yellow.

246944. SOLANUM sp.

Col. No. E–324. 'Uvilla No. 2'. Market, Riobamba, Chimborazo. Tubers globose; skin black; eyes shallow; flesh yellow.

246945. SOLANUM sp.

Col. No. E–325. 'Uvilla No. 1'. Market, Riobamba, Chimborazo. Tubers globose; skin flesh-color; eyes shallow; flesh yellow.

246946. SOLANUM sp.

Col. No. E–325. 'Jubalena'. On farm, vicinity of Riobamba, Chimborazo. Tubers ellipsoid, compressed; skin tan with a purple band; eyes shallow; flesh yellow.

246947. SOLANUM sp.

Col. No. E–326. 'Leona Blanca Puro'. Market, Riobamba, Chimborazo. Tubers irregularly round; skin white; eyes deep; flesh yellow.

246948. SOLANUM sp.

Col. No. E–327. Market, Riobamba, Chimborazo. Tubers globose, compressed; skin white; eyes purplish, white; flesh yellow.

246949. SOLANUM sp.

Col. No. E–328. 'Tulca'. Market, Riobamba, Chimborazo. Tubers ovoid, compressed; skin reddish-purple; eyes shallow; flesh yellow.

246950. SOLANUM sp.

Col. No. E–329. 'Santa Rosa'. Market, Riobamba, Chimborazo. Tubers ellipsoid, skin and flesh yellow, eyes shallow.

246951. SOLANUM sp.

Col. No. E–330. 'Suscalena'. Market, Riobamba, Chimborazo. Tubers globose; skin bronze-purple; eyes small; flesh yellowish-white.

246952. SOLANUM sp.

Col. No. 331. 'Leona No. 1'. Market, Riobamba, Chimborazo. Tubers globose, compressed; skin dull purple; eyes shallow; flesh yellow.

246953. SOLANUM sp.

Col. No. E–332. Market, Riobamba, Chimborazo. Tubers ellipsoid; skin pink; eyes shallow; flesh yellowish-white.

246954. SOLANUM sp.

Col. No. E–335. On brushy slope near river, just south of Guaseintos, Chimborazo. Plant low, bushy; tubers globose, to 3 cm. in diameter; flowers pink-lavender, rotate-stellate.

246955. SOLANUM sp.

Col. No. E–338. Road to Cuenca, south of Canas, on a plateau. Plants about 31 cm. high; leaves deep shiny green above, grayish-green below; tubers small, ellipsoid to 3 cm. long; flowers purple-lavender, rotate.

246956. SOLANUM sp.

Col. No. E–373. 'Cordillera'. In wet area in Alpachaca, 43 kms. from Cuenca. Elevation 3,100 meters. Tubers globose, ellipsoid; ivory-white.

246957. SOLANUM sp.

Col. No. E–374. Wet thicket area in small valley, 56 km. from Cuenca on road to Loja. Elevation 3,100 meters. Flowers lavender.

246958. SOLANUM sp.

Col. No. E–376. Open hillside, 68 km. from Cuenca on road to Loja. Tubers ellipsoid; flowers lavender.

246959. SOLANUM sp.

Col. No. E–381. Among brush in clearings on upper slopes of Villonaco, 15 km. from Loja, on road to Catamayo. Plants bushy; leaves dark green above, lighter beneath; tubers to 5 cm. long; flowers stellate to rotate-stellate, white with lavender stripes on back.

246960. SOLANUM sp.

Col. No. E–385. About 15 km. from Loja, on road to Amora. Tubers globose or ellipsoid, brittle and white; flowers light lavender to white marked with lavender, rotate; fruits ovoid.

246961. SOLANUM sp.

Col. No. E–385. (Seeds.)

246962. SOLANUM sp.

Col. No. E–412. On open slope between Santiago and Lucas, Loja. Elevation 2,900 meters. Flowers pale lavender-white, rotate; fruits ovoid, up to 3 cm. long.

246963. SOLANUM sp.

Col. No. E–422. Near La Jarata, 67 km. south of Cuenca on road to Loja, Azuay. In opening on brushy slope; flowers lavender-blue.

246964. SOLANUM sp.

Col. No. E–426. 'Jubalena'. Market, Cuenca. Tubers globose; skin white and pink; eyes shallow; flesh yellowish-white.

246965. SOLANUM sp.

Col. No. E–427. 'Bolona Blanca'. Market, Cuenca. Tubers ellipsoid; skin white; eyes small; flesh creamy-yellow.

246966. SOLANUM sp.

Col. No. E–428a. Grown on Hacienda San Isidro, Cuenca. Tubers globose and ellipsoid; skin reddish-purple; eyes shallow; flesh yellowish-white.

246967. SOLANUM sp.

Col. No. E–428b. Grown on Hacienda San Isidro, Cuenca. Tubers globose, almost passe.

246968. SOLANUM sp.

Col. No. E–429a. Grown on Hacienda San Isidro, Cuenca. Tubers globose; eyes shallow; skin white with reddish tinge; flesh yellow.

246969. SOLANUM sp.

Col. No. E–429b. 'Bolona Negra'. Grown on Hacienda San Isidro, Cuenca. Tubers globose; skin purplish-black; eyes small, shallow; flesh yellowish-white.

246970. SOLANUM sp.

Col. No. E–437. San Juan 13 km. from Guaranda, Bolivar. Elevation 4,000 meters. Plants low, bushy; tubers small, ellipsoid, about 1.5 cm. long; flowers rotate, deep lavender; fruits ovoid, 2.5 cm. long.

246971. SOLANUM sp.

Col. No. E–437. (Seeds.)

246972. SOLANUM sp.

Col. No. E–438. 'Chumbe Leona'. Grown near Guaranda, Bolivar. Tubers globose; skin reddish-pink; eyes small; flesh yellowish.

246973. SOLANUM sp.

Col. No. E–439. 'Uvilla Blanca'. Near Guaranda, Bolivar. Tubers globose; skin white with black band; eyes round, rather deep; flesh creamy-white.

246974. SOLANUM sp.

Col. No. E–440. 'Tulca'. Vicinity of Guaranda, Bolivar. Tubers narrow, ovoid; skin purplish-red; eyes shallow; flesh creamy-white.

246975. SOLANUM sp.

Col. No. E–444. 'Tacanguilla'. Farm near Salcedo. Tubers globose; skin white with pink blush; eyes shallow; flesh cream-color.

246976. SOLANUM sp.

Col. No. E–445. 'Leona Negra'. Small farm near Salcedo. Tubers globose; skin deep purple; eyes shallow; flesh creamy-yellow.

246977. SOLANUM sp.

Col. No. E–446. 'Chola'. Small farm near Salcedo. Tubers ellipsoid; skin deep pink; eyes shallow; flesh cream-color.

246978. SOLANUM sp.

Col. No. E–447. 'Jardinera'. Small farm near Salcedo. Tubers globose, ellipsoid, somewhat compressed; skin reddish-purple; eyes shallow; flesh deep yellow.

246979. SOLANUM sp.

Col. No. E–488. Small farm near Salcedo. Tubers globose, ellipsoid; skin light bronze-color; eyes broad, shallow; flesh creamy-white.

246980. SOLANUM sp.

Col. No. E–449. Paramo of Cotopaxi between Latacunga and Quito. Elevation 3,750 meters. Tubers ellipsoid, about 3 cm. long; fruits ovoid, 2 cm. long.

246981. SOLANUM sp.

Col. No. E–449. (Seeds.)

246982. SOLANUM sp.

Col. No. E–453. 'Jose Catota'. Vicinity of Saquisili, Cotopaxi. Elevation 3,000 meters. Tubers ellipsoid; skin purplish-red; eyes shallow; flesh creamy-white.

246983. SOLANUM sp.

Col. No. E–454. 'Tacanquilla'. Vicinity of Saquisili, Cotopaxi, Elevation 3,000 meters. Tubers ellipsoid; skin mottled with pink; eyes deep; flesh whitish.

246984. SOLANUM sp.

Col. No. E–455. 'Clavache'. Vicinity or Saquisili, Cotopaxi. Elevation 3,000 meters. Tubers banana-shaped; skin pink-bronze; eyes obscure; flesh yellowish-white.

246985. SOLANUM sp.

Col. No. E–456. 'Allco Chaqui'. Grown by Indians above Saquisili, Cotopaxi. Elevation 3,000 meters. Tubers reddish and purplish-black; flesh yellow.

246986. SOLANUM sp.

Col. No. E–457. 'Sole Blanca'. Vicinity of Saquisili, Cotopaxi. Elevation 3,000 meters. Tubers ellipsoid; skin white; eyes deep set; flesh whitish.

246987. SOLANUM sp.

Col. No. E–458. 'Olashuyo Negra'. Vicinity of Saquisili, Cotopaxi. Elevation 3,000 meters. Tubers ellipsoid; skin purplish-black; eyes shallow; flesh whitish.

246988. (Undetermined.)

Col. No. E–452. From a native of Quito, who says they are 'Papas del Monte'.

246989 to 246992.

From Belgian Congo. Plants collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 2, 1958.

Forty-three km. northeast of Elizabethville.

246989. SANSEVIERIA sp. Liliaceae.

Col. No. 21446. Broad, mottled leaves to 50 cm. long and 10 cm. wide.

246990. SANSEVIERIA sp.

Col. No. 21448. Leaves about 70 cm. long, canaliculate, and thick at the base.

246991. SANSEVIERIA sp.

Col. No. 21449. A terete-leaved species. Leaves to 1 meter long and 5 cm. in diameter.

246992. SANSEVIERIA sp.

Col. No. 21457. (No field note.)

246993. SECHIUM EDULE (Jacq.) Sw. Cucurbitaceae. **Chayote.**

From Florida. Seeds presented by J. W. Lowe, Homestead. Received April 28, 1958.

246994. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

From Greece. Seeds presented by the Agricultural Attache, Athens. Received April 3, 1958.

Originally from the Island of Rhodes. Ten to 14 days earlier than 'New Hampshire Victory' under similar conditions.

246995. SOLANUM sp. Solanaceae.

From Ecuador. Seeds collected by Donovan S. Correll, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 3, 1958.

Col. No. E–412. Open slope between Santiago and San Lucas, Loja Province. Flowers pale lavender-white, rotate; fruits ovoid.

246996. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

From the Bahamas. Seeds presented by Wallace and Tiernam Inc., Bellsville, New Jersey. Received April 3, 1958.

Random samples from native plants on the Island of Andros.

246997 to 247005.

From the Union of South Africa. Seeds presented by the National Botanic Gardens, Kirstenbosch, Newlands, Cape Province. Received April 4, 1958.

246997. CALPURINA SYLVATICA E. Mey. Fabaceae.
No. 96.

246998. EURYOPS PECTINATUS Cass. Asteraceae.
No. 278.

246999. LAMPRANTHUS AUREUS (L.) N. E. Brown Aizoaceae.
No. 398.

247000. LAMPRANTHUS MULTIRADIATUS (Jacq.) N. E. Brown
No. 407.

247001. LAMPRANTHUS PITTENII (L. Bolus) N. E. Brown
No. 409.

247002. LAMPRANTHUS ROSEUS (Willd.) Schwantes.
No. 411.

247003. LEUCOSPERMUM NUTANS R. Br. Proteaceae.
No. 442.

247004. MELIANTHUS MAJOR L. Bersamaceae.
No. 482.

247005. PHAENOCOMA PROLIFERA D. Don Asteraceae.
No. 525.

247006 and 247007.

From Lebanon. Seeds presented by the Food and Agricultural Organization, Beirut. Received April 7, 1958.

247006. MEDICAGO (hybrid). Fabaceae.
No. 15. Endemic natural hybrid, (*M. sativa*×*M. falcata*); wide range of flower color and growth transition. Elevation 1,500 meters. Annual rainfall 1,350 mm.; snow December to March, dry in summer.

247007. ORYZOPSIS HOLCIFORMIS (Bieb.) Hack. Poaceae. **Ricegrass.**

No. 41. Native pasture species. Elevation 1,750 meters. No rain May or June to October. Good regeneration.

247008 to 247020.

From Brazil. Seeds collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 7, 1958.

Collected from Botanical Garden, Rio de Janeiro, except where otherwise noted.

247008. ANEIMIA sp. Schizaeaceae.
Col. No. 18160. Corcovado, above Rio de Janeiro. On slopes, usually among rocks, in deep shade.

247009. BALAKA SEEMENII Becc. Phoenicaceae. **Palm.**
Col. No. 18165. Plant to 15 feet high; trunk slender.

247010. BESLERIA sp. Gesneriaceae.
Col. No. 18159. Shrub to 2.5 feet high; flowers yellow.

247011. CHRYSALIDOCARPUS LUTESCENS (Bory) H. Wendl. Phoenicaceae. **Yellow palm.**
Col. No. 18171. 'Palmeira Bambu'. Canes to 45 feet high in large dense clumps; stems slender.

247012. COMBRETUM AUBLETII DC. Combretaceae.
Col No. 18173. 'Escova de Macaco'. Fairly stout woody vine; flowers deep reddish-pink.

247013. CYRTOSTACHYS RENDA Blume Phoenicaceae. **Palm.**
Col. No. 18167. 'Palmeira Laca'. Canes to 40 feet high in dense clumps.

247014. DENEA FORSTERIANA (F. Muell.) O. F. Cook Phoenicaceae. **Palm.**
Col. No. 18168. Plant slender, to 20 feet high; leaves few.

247015. DESMONCUS PYCNACANTHOS Mart. Phoenicaceae. **Palm.**
Col. No. 18166. 'Jacitara'. Climbing plant with recurved spines.

247016. DICTYOSPERMA sp. Phoenicaceae. **Palm.**
Col. No. 18170. Plant to 15 feet high.

247017. IMPATIENS sp. Impatientaceae.
Col. No. 18156. 'Beijo de Moca'. Corcovado, above Rio de Janeiro. Plant to 15 inches high; flowers salmon-pink. Common on the slopes of Corcovado roadsides.

247018. PINANGA SPECTABILIS Batal, ex Becc. Phoenicaceae. **Palm.**
Col. No. 18172. Slender palms to 30 feet high; leaves few; fruits deep red; pulp dark-reddish.

247019. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**
Col. No. 18222. 'Mamao Vermelha'. Petropolis, State of Rio de Janeiro. Elevation 2,500 feet.

247020. SALVIA SPLENDENS Ker Menthaceae. **Scarlet sage.**
Col. No. 18157. Slopes of Corcovado, above Rio de Janeiro. Common along roadside.

247021 to 247026. MALUS (hybrids). Malaceae.

From Demark. Scions presented by Count F. M. Knuth, Knuthenborg, Bandholm. Received Apr. 7, 1958.

247021. 'Cox's Orange'. 'Blangsted'; 'Kortegaard's'. The standard strain is characteristically stripped on the exposed side, however, this variety is blushed without any striping. Considered better colored and the best of the Cox strains.

247022. 'Cox's Orange Cherry'. A Danish strain which is completely blushed dark red.

247023. 'Cox's Orange Otago'. The fruit is red striped and mottled. Developed in New Zealand.

247024. 'Cox's Orange'. (Standard type). The famous English variety. A leading commercial variety in the Baltic-North Sea apple belts. Less popular than 10 years ago as fruit from older trees tends to become small and the variety is exacting in soil and culture.

247025. 'Huidobro'. A Chilean variety that is woolly-aphis resistant under Argentine conditions. This variety thrives in the warmer parts of the apple zone where grapes are grown commercially. The fruit is bright yellow, has a high sugar content, and fair flavor. May be of value for rootstock breeding.

247026. 'Kidd's Orange Red'; ('Delicious' × 'Cox's Orange'). Developed in New Zealand. Tree vigorous, annual bearer; fruit medium-sized round, conical, orange-yellow with red wash and striped on exposed surface; flesh firm, crisp, quality good; matures early.

247027 to 247030.

From Australia. Cuttings received from the Colonial Sugar Refining Company, Ltd., Sydney, New South Wales. Received April 7, 1958.

247027. SACCHARUM ARUNDINACEUM Retz. Poaceae. **Sugarcane.**

247028 to 247030. SACCHARUM (hybrid).

247028. 49M Q 3026.

247029. 55M Q 2488.

247030. 39 SN 3821.

247031 to 247035. DIANTHUS CARYOPHYLLUS L. Silenaceae.

Carnation.

From Italy. Cuttings presented by Giuliana Eva Mameli Calvino, Sanremo. Received April 7, 1958.

247031. 'Anita'.

247032. 'Anita Fanny'.

247033. 'Candido'.

247034. 'Gorena'.

247035. 'Nizzardo Rosso'.

247036 to 247040.

From the Canal Zone. Seeds presented by Harold F. Loomis, Barro, Colorado. Received April 8, 1958.

247036. BACTRIS COLONIATA Bailey. Phoenicaceae. **Palm.**

247037. GEONOMA BINERVIA Oerst. Phoenicaceae. **Palm.**

247038. GEONOMA DECURRENS Wendl.

247039. GEONOMA PROCUMBENS Wendl.

247040. SYNECANTHUS WARSCEWICZIANUS Wendl. Phoenicaceae. **Palm.**

247041 to 247047.

From the Union of South Africa. Seeds presented by the National Botanical Gardens, Kirstenbosch, Newlands. Received April 8, 1958.

247041. EURYOPS PECTINATUS Cass. Asteraceae.

Plant to 3 feet high, ashy gray throughout; leaves pectinate-pinnatifid, to 3 inches long; flower heads yellow, terminal. Native to South Africa.

247042. ILEX CAPENSIS Sond. & Harv. Aquifoliaceae.

Shrub or small tree to 12 feet high, densely leafy; leaves oblong-lanceolate, shiny above. Native of South Africa.

247043. INDIGOFERA CYLINDRICA DC. Fabaceae.

247044. LEUCOSPERMUM REFLEXUM Buek. Proteaceae.

247045. PITTOSPORUM VIRIDIFLORUM Sims Pittosporaceae. **Cape pittosporum.**

247046. PRIESTLEYA HIRSUTA DC. Fabaceae.

A silky-haired shrub with racemes of yellow flowers. Native of South Africa.

247047. RAUVOLFIA CAFFRA Sond. Apocynaceae. **Devilpepper.**

247048 to 247060.

From Canada. Seeds presented by the Experimental Farms Service, Department of Agriculture, Ottawa, Ontario. Received Apr. 9, 1958.

Localities given are original sources of material.

247048. HORDEUM AGRIOCRITHON Aberg Poaceae.

No. B. 209. Botanic Garden, Berlin, Germany.

247049. HORDEUM BRACHYANTHERUM Nevski

No. B. 255. Herbarium, Davis, California. Collected in Yolo County, California.

247050. HORDEUM BULBOSUM L. **Bulbous barley.**

No. B. 144. Germany.

247051. HORDEUM DEPRESSUM (Scribn. & Smith) Rydb.

No. B. 256. Herbarium, Davis, California. Collected in Yolo County, California.

247052. HORDEUM JUBATUM var. CAESPITOSUM (Scribn.) Hitchc.

No. B. 204. Portugal.

247053 and 247054. HORDEUM LEPORINUM Link.

247053. No. B. 258. Herbarium, Davis, California. Collected in Yolo County, California.

247054. No. B. 381. Origin unknown.

247055 and 247056. HORDEUM MARINUM Huds.

247055. No. B. 51. Argentina.

247056. No. B. 205. Portugal.

247057. HORDEUM VULGARE L. **Common barley.**

No. B. 206. Oslo, Norway.

247058. HORDEUM PUSILLUM Nutt.

No. B. 196.

247059. HORDEUM STENOSTACHYS Godr.

No. B. 56. Argentina.

247060. HORDEUM sp.

No. B. 55. Argentina.

247061 to 247065. VITIS (hybrids). Vitaceae.

From Germany. Cuttings presented by the Landwirtschoftskammer, Hanover Jork, Bez, Hamburg. Received Apr. 9, 1958.

247061. 5BB–34G. Selection from 5BB which was made at an Experiment Station in Austria in 1904. The final selection was made at the Geisenheim Experiment Station, Germany.

247062. 26 G. ('Trollinger' × 'Riparia'). Experiment Station Geisenheim, Germany.

247063. 143A ('Aramon' × 'Riparia'). Developed for rootstocks.

247064. 1616E. ('Solonis' × 'Riparia'). Developed for rootstocks.

247065. SO4. ('Berlandieri' × 'Riparia'). Experiment Station, Oppenheim, Germany.

247066. TREVESIA SUNDAICA Miq. Araliaceae.

From Italy. Seeds presented by the Botanic Garden, Palermo. Received April 9, 1958.

Native of Java. Tree to 45 feet high.

247067. ALLIUM CEPA L. Liliaceae. **Onion.**

From Italy. Seeds presented by the Federazione Italiana dei Consorzi Agrari, Stabilimento Selezione Sementi Orticole, Ponte-Galeria, Rome. Received April 21, 1958.

'Italian Red'.

247068. ALLIUM CEPA L. Liliaceae. **Onion.**

From Brazil. Seeds presented by the Instituto Agronomico, Campinas. Received April 21, 1958.

'Bahia Piriforme'. A short-cycle variety.

247069. PHILODENDRON sp. Araceae.

From Mexico. Cuttings presented by Edgar Anderson, Vera Cruz. Received April 7, 1958.

Climbing on palms and acacias, Coaxtla.

247070 and 247071. ZEA MAYS L. Poaceae. **Corn.**

From Spain. Seeds presented by the Agricultural Experiment Station, St. Paul, Minn. Received April 21, 1958.

Varieties showing resistance to corn borer, but early maturity may account for this. In maturity they compare with North Dakota hybrids.

247070. 'Hembrille de Aragon'.

247071. 'Rojo Vinoso'.

247072 and 247073. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Great Britain. Seeds presented by the Plant Breeding Institute, Cambridge, England. Received April 21, 1958.

247072. 'Victor'.

247073. 'ALG/42'.

247074 to 247076.

From Brazil. Seeds presented by the United States Operations Mission, Porto Alegre, Rio Grande do Sul. Received April 23, 1958.

247074. ARISTIDA ALTISSIMA Arech. Poaceae.

247075. BROMUS AULETICUS Trin. ex Nees Poaceae.

247076. PIPTOCHAETIUM MONTEVIDENSE (Spreng.) Parodi Poaceae.

247077 and 247078. PRUNUS DOMESTICA L. Amygdalaceae. **Common plum.**

From Finland. Scions presented by Maatalouden Tutkimuskeskus, Piikkio. Received April 18, 1958.

247077. 'Gleinen Punaluimii'. Exceptionally hardy.

247078. 'Ylenen Kelaluumu'. Exceptionally hardy.

247079 to 247086. HYPARRHENIA HIRTA (L.) Stapf Poaceae.

From the Union of South Africa. Seeds presented by the Prinshof Experiment Station, Pretoria, Transvaal. Received April 9, 1958.

247079. No. 1. Barberton, eastern Transvaal.

247080. No. 2. Lydenburg, northeastern Transvaal.

247081. No. 3. Amersfoort, southeastern Transvaal.

247082. No. 4. Potchefstroom, western Transvaal.

247083. No. 5. Northern Natal.

247084. No. 6. Kimberley.

247085. No. 7. Pretoria.

247086. No. 8. Pretoria University Farm.

247087. LYCOPERSICON HIRSUTUM Humb. & Bonpl. Solanaceae.

From Ecuador. Seeds collected by Donavan S. Correll, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 9, 1958.

Col. No. E–411. Bank between Catamayo and Gonzanama, Hacienda Colca, Loja. Plant large, with many branches; flowers yellow; fruits round.

247088. STIZOLOBIUM sp. Fabaceae.

From Japan. Cuttings presented by Kyushu University, Fukuoka. Received April 10, 1958.

From Kaoru Ehara.

247089. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

From Australia. Seed presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received April 11, 1958.

Ky–1.

247090 to 247092.

From Mexico. Seeds presented by the Rockefeller Foundation, Mexico City. Received April 11, 1958.

247090. PANICUM MAXIMUM Jacq. Poaceae. **Guineagrass.**

Grown extensively in the states of Tamaulipas, San Luis Potosi, and Veracruz as a pasture grass.

247091 and 247092. VICIA SATIVA L. Fabaceae. **Common vetch.**

247091. No. 1–415.

247092. RF–672.

247093. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

From Finland. Seeds presented by the Agricultural Research Centre, Department of Plant Breeding, Jokioinen. Received April 11, 1958.

'Jokioinen'. The only alfalfa variety released in Finland. The breeding of this variety began in 1924 from material probably of French origin. The breeding worked consisted mainly of continuing acclimatization.

247094 to 247102. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

From Iran. Seeds presented by the United States Agricultural Attache, Tehran. Received April 11, 1958.

247094. No. 2792.
247095. No. 2795.
247096. No. 2798.
247097. No. 2802.
247098. No. 2803.
247099. No. 2808.
247100. No. 2814.
247101. No. 2823.
247102. No. 2825.

247103. ORYZA SATIVA L. Poaceae. **Rice.**

From Portugal. Seed presented by the Estacao Agronomica Nacional, Sacavem. Received Apr. 11, 1958.

'Lusitano'. G.S. 993.

247104 to 247119.

From Great Britain. Plants purchased from Hillier & Sons, Winchester, England. Received Apr. 14, 1958.

247104. ACER CAPPADOCICUM Gleditsch Aceraceae. **Coliseum maple.**

'Aureum'.

247105. ACER NEGUNDO L. **Boxelder.**

'Elegantissimum'.

247106 and 2470107. ACER PLATANOIDES L. **Norway maple.**

247106. 'Drummondii'.

247107. 'Deitenbachii'.

247108 and 247109. ACER PSEUDO-PLATANUS L. **Sycamore maple.**

247108. 'Brilliantissimum'.

247109. 'Worlei'.

247110 and 247111. BERBERIS WILSONAE Hemsl. Berberidaceae. **Wilson barberry.**

247110. Typical form.

247111. 'Globosa'.

247112. CYTISUS PURPUREUS Scop. Fabaceae.

'Albus'.

247113. CYTISUS SCOPARIUS (L.) Link **Scotch broom.**

'Sulphureus'.

247114. CYTISUS × VERSICOLOR Dippel

247115. FRAXINUS SPAETHIANA Lingels. Oleaceae. **Ash.**

247116. FRAXINUS SYRIACA Boiss. **Ash.**

247117. MAHONIA REPENS var. ROTUNDIFOLIA Fedde Berberidaceae.

247118. RIBES ALPINUM L. Grossulariaceae. **Mountain currant.**

'Pumilum'.

247119. SALIX LANATA L. Salicaceae. **Weeping willow.**

'Stuartii'.

247120 and 247121. VITIS (hybrids). Vitaceae.

From France. Cuttings presented by the Station de Recherches Viticoles & d'Arboriculture Fruitiere, Centre de Recherches Agronomiques du Sud-Ouest, Pont-de-la-Maye. Received Apr. 14, 1958.

247120. 'Boujanoir'. (Gilbert 6–1.)

247121. 'Pougette Musquee'.

247122 to 247134.

From Brazil. Seeds presented by the Instituto Agronomico do Estado de Sao Paulo, Campinas. Received Apr. 14, 1958.

247122. CROTALARIA BREVIFLORA DC. Fabaceae.

247123. CROTALARIA FALCATA Vahl

247124. CROTALARIA GRANTIANA Harv.

247125. CROTALARIA INTERMEDIA Kotschy. **Slenderleaf crotalaria.**

247126. CROTALARIA JUNCEA L. **Sunn-hemp.**

247127. CROTALARIA PAULINA Schrank

247128. CROTALARIA RETUSA L.

247129. CROTALARIA SPECTABILIS Roth **Showy crotalaria.**

247130. CROTALARIA VERRUCOSA L.

247131. CROTALARIA sp.

247132. CROTALARIA sp.

247133 and 247134. DOLICHOS LABLAB L. Fabaceae. **Hyacinth-bean.**

247133. No. 697.

247134. No. 803.

247135 and 247136.

From Yugoslavia. Seeds presented by the Agricultural Institute, Banja Luka. Received Apr. 14, 1958.

247135. SORGHUM SUDANESE (Piper) Stapf Poaceae. **Sudangrass.**
No. 55.

247136. SORGHUM BICOLOR (L.) Moench
No. 53.

247137. CITROPSIS DAWEANA Swing. & M. Kell. Rutaceae.

From Rhodesia. Seeds presented by G. R. Bates, Causeway, Salisbury. Received Apr. 15, 1958.

247138 to 247271.

From Brazil. Plants collected by Llewelyn Williams, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Apr. 11, 1958.

From the State of Sao Paulo unless otherwise noted.

247138. ALPINIA SPECIOSA K. Schum. Zingiberaceae.

Col. No. 18656. 'Cinnamomo'. Pollard's Garden, Sao Paulo. Plant to 10 feet high; flowers white.

247139. ALSTROEMERIA INODORA Herb. Amaryllidaceae.

Col. No. 18666. 'Madreisilva Japonesa'. Pollard's Garden, Sao Paulo. Plant to 16 inches high; flowers fragrant, appearing on bare earth; petals red and white.

247140. ANTHURIUM sp. Araceae.

Col. No. 18596. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Epiphyte in shade in dense forest.

247141. ANTHURIUM CORIACEUM (Graham) Endl.

Col. No. 18605. Fazenda da Bonita Serra da Bocaina. Elevation 4,000 feet. On tree trunk in dense forest.

247142. GUADUA TAGOARA Kunth Poaceae. **Bamboo.**

Col. No. 18577. 'Taquara'. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Forming dense, almost impenetrable, stands in dense forest.

247143. BEGONIA BRADEI Irmscher Begoniaceae.

Col. No. 18511. Plant to 4 feet high; flowers almost white.

247144. BEGONIA QUADRILOCULARIS Brade

Col. No. 18516. Plant to 5 feet high. From State of Rio de Janeiro.

247145. BEGONIA VELLOZOANA Brade

Col. No. 18518. Plant low, wide-spreading; leaves brown underneath.

247146. BEGONIA sp.

Col. No. 18510. Plant to 5 feet high; leaves dark green, pubescent.

247147. BEGONIA sp.

Col. No. 18521. Plant to 2 feet high; leaves to 12 inches in diameter; flowers whitish.

247148. BEGONIA FRUTICOSA A. DC.

Col. No. 18523. Plant creeping along wall; leaves lustrous medium green; flowers orange-yellow.

247149. BEGONIA sp.

Col. No. 18524. Plant creeping along wall; leaves fairly small, lustrous when young.

247150. BEGONIA CONVOLVULACEA A. DC.

Col. No. 18531. Plant among rocks in deep shade.

247151. BEGONIA × ANGULARIS Raddi

Col. No. 18587. Fazenda da Bonita Serra da Bocaina. Elevation 4,000 feet. Plant to four feet high; leaves at times reddish-brown beneath; flowers pale-pinkish to white.

247152. BEGONIA sp.

Col. No. 18634. Fazenda da Bonito, Serra de Bocaina. Elevation 3,700 feet. Plant to three feet high; leaves red. In forest in deep shade.

247153. BEGONIA sp.

Col. No. 18686. Chacasa, Santa Rosa, Sao Paulo. Elevation 2,800 feet.

247154. BEGONIA sp.

Col. No. 18693. Pollard's Garden, Sao Paulo. Elevation 2,800 feet.

247155. BILLBERGIA sp. Bromeliaceae.

Col. No. 18493. 'Granata'. Sao Benito.

247156. BRUNFELSIA sp. Solanaceae.

Col. No. 18658. 'Manaca'. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Small tree flowers violet fading to white. Very fragrant.

247157. CALADIUM sp. Araceae.

Col. No. 18674. Chacara, Santa Rosa. Originally from the Amazon region.

247158. CANISTRUM sp. Bromeliaceae.

Col. No. 18572. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Epiphytic and terrestrial; flowers reddish-pink.

247159. CANISTRUM sp.

Col. No. 18573. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. On dry log in dense forest shade. Flowers purplish-brown.

247160. CANISTRUM sp.

Col. No. 18588. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Epiphyte in deep shade in forest.

247161. CANISTRUM sp.

Col. No. 18592. 'Carata'. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Epiphyte in dense forest shade. Flowers purplish-brown.

247162. BILLBERGIA AMOENA (Lodd.) Lindl.

Col. No. 18630. Fazenda da Bonita, Serra da Bocaina. Elevation 3,600 feet. Epiphyte in low forest.

247163. CESTRUM NOCTURNUM L. Solanaceae.

Col. No. 18657. 'Jasmin da Noite'. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Flowers greenish-white; strongly fragrant during the night.

247164. CROTON sp. Euphorbiaceae.

Col. No. 18669. 'Croton Italiano'. Chacara, Santa Rosa.

247165. DATURA ARBOREA L. Solanaceae. **Floripondio.**

Col. No. 18527. Instituto de Botanica, Sao Paulo. Shrub to 7.5 feet high; flowers pale pink.

247166. DICHORISANDRA HEXANDRA (Aubl.) O. Kuntze Commelinaceae.

Col. No. 18662. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Plant to 3 feet high; flowers dark blue.

247167. DRACAENA sp. Liliaceae.

Col. No. 18664. Pollard's Garden, Sao Paulo. Plant to 4 feet high; leaves striped pink and green.

247168. DURANTA REPENS L. Verbenaceae **Skyflower.**

Col. No. 18655. Pollard's Garden, Sao Paulo. Scandent thorny shrub to 8 feet high; flowers small, fragrant, lavender-colored.

247169. EPIDENDRUM sp. Orchidaceae.

Col. No. 18598. Fazenda da Bonita, Serra da Bacaina. Elevation 4,000 feet. Plant on rotten log in deep forest.

247170. EPISCIA CUPREATA (Hook.) Hanst. Gesneriaceae.

Col. No. 18672. Chacara, Santa Rosa. Elevation 2,800 feet.

247171. FICUS sp. Moraceae.

Col. No. 18688. 'Hera Miuda'. Chacara, Santa Rosa. Elevation 2,800 feet. Leaves green and creamy-white.

247172. KOHLERIA BOGOTENSIS Fritsch. Gesneriaceae.

Col. No. 18648. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Plant to 2 feet high; leaves dark green; flowers scarlet.

247173. HEDYCHIUM FLAVESCENS Carey ex Rosc. Zingiberaceae.

Col. No. 18652. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Plant to 8 feet high; flowers yellow and white.

247174. HEDYCHIUM GARDNERIANUM Rosc.

Col. No. 18653. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Plant to 8 feet high; flowers red.

247175. HOLMSKIOLDIA SANGUINEA Retz. Verbenaceae.

Col. No. 18649. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Vine that may be pruned.

247176. HYMENOCALLIS sp. Amaryllidaceae.

Col. No. 18495. 'Lilia Jobrada'. Sao Benito. Flowers deep yellow.

247177. ILEX INTEGERRIMA Reiss. Aquifoliaceae. **Holly.**

Col. No. 18552. Forest Altra da Serra Paranapiacaba. Shrub to 6 feet high; leaves curvaceous.

247178. MOSCHOSMA RIPARIUM Hochst. Menthaceae.

Col. No. 18501. Instituto de Botanica, Sao Paulo. Wide-spreading tree to 10 feet high; native to South Africa.

247179. JACOBINIA CARNEA (Lindl.) Nichols. Acanthaceae.

Col. No. 18659. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Bush with dense terminal heads of rosy-pink flowers.

247180. MICROLICIA ISOPHYLLA DC. Melastomataceae.

Col. No. 18633. Fazenda da Bonita, Serra da Bocaina. Flowers pink.

247181. LYCOPODIUM CERNUUM L. Lycopodiaceae.

Col. No. 18549. Forest Alta da Serra, Paranapiacaba. Plant grew along edge of path.

247182. OXALIS sp. Oxalidaceae.

Col. No. 18629. Fazenda da Bonita, Serra da Bocaina. Elevation 3,600 feet. Plant grew in forest shade to 16 inches high; flowers yellow.

247183. PERESKIA GRANDIFOLIA Haw. Cactaceae.

Col. No. 18526. Instituto de Botanica, Sao Paulo. Small armed tree to 9 feet high; thorns to 2 inches long, sharp.

247184. PEPEROMIA REFLEXA (L.f.) A. Dietr. Piperaceae.

Col. No. 18522. Instituto de Botanica, Sao Paulo. Plant to 24 inches high; leaves small.

247185. PEPEROMIA sp.

Col. No. 18548. Forest Alta da Serra, Paranapiacaba. A very small species in deep shade.

247186. PEPEROMIA sp.

Col. No. 18571. Fazenda da Bonita, Serra da Bocaina. Small species on tree trunk.

247187. PEPEROMIA DIAPHANOIDES Dahlst.

Col. No. 18579. Fazenda da Bonita, Serra da Bocaina. Elevation 5,000 feet. Plant to 15 inches high.

247188. PEPEROMIA sp.

Col. No. 18583. Fazenda da Bonita, Serra da Bocaina. Elevation 5,000 feet. Leaves small, curvaceous.

247189. CISSUS DISCOLOR Blume Vitaceae.

Col. No. 18675. Chacara, Santa Rosa. Originally from the Amazon region. Elevation 2,800 feet. Climbing; very ornamental.

247190. PEPEROMIA sp. Piperaceae.

Col. No. 18689. Chacara, Santa Rosa. Elevation 2,800 feet.

247191. PEPEROMIA sp.

Col. No. 18692. Chacara, Santa Rosa. Elevation 2,800 feet. Originally from Serra da Cantareua.

247192. PETREA sp. Verbenaceae.

Col. No. 18650. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Vine with violet-blue sprays of flowers.

247193. PHILODENDRON sp. Araceae.

Col. No. 18530. Instituto de Botanica, Sao Paulo. On rocks in deep shade.

247194. PHILODENDRON CORDATUM Kunth

Col. No. 18532. Instituto de Botanica, Sao Paulo. Plant creeping on tree trunk; leaves dark green.

247195. PHILODENDRON AUREUS Lind.

Col. No. 18533. Instituto de Botanica, Sao Paulo. Epiphyte on tree trunk; leaves ovate.

247196. PHILODENDRON sp.

Col. No. 18544. 'Guambe', 'Imbi'. Forest Alta da Serra, Paranapiacaba. Epiphyte on tree trunk; leaves dark green.

247197. PHILODENDRON sp.

Col. No. 18546. Forest, Alta da Serra, Paranapiacaba. Terrestrial on marshy ground.

247198. PHILODENDRON sp.

Col. No. 18547. Forest, Alta da Serra, Paranapiacaba. Terrestrial in deep shade; leaves long-acuminate.

247199. PHILODENDRON sp.

Col. No. 18595. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Epiphyte in deep forest shade.

247200. PHILODENDRON sp.

Col. No. 18599. Fazenda da Bonita, Serra da Bocaina. Elevation 4,250 feet. Terrestrial along edge of forest.

247201 to 247210. Chacara do Santa Rosa. Elevation 2,800 feet. Originally from the Amazon region.

247201. PHILODENDRON sp.

Col. No. 18670.

247202. PHILODENDRON sp.

Col. No. 18673.

247203. PHILODENDRON sp.

Col. No. 18677.

247204. PHILODENDRON sp.

Col. No. 18678.

247205. PHILODENDRON sp.

Col. No. 18679.

247206. PHILODENDRON sp.

Col. No. 18680.

247207. PHILODENDRON sp.

Col. No. 18681.

247208. PHILODENDRON sp.

Col. No. 18682.

247209. PHILODENDRON sp.

Col. No. 18683.

247210. PHILODENDRON sp.

Col. No. 18684.

247211. PHYLLANTHUS sp. Euphorbiaceae.

Col. No. 18660. Pollard's Garden, Sao Paulo. Elevation 2,800 feet.

247212. POLYPODIUM LEPIDOPTERIS (Langsd. & Fisch.) Kunze Polypodiaceae. **Fern.**

Col. No. 18606. Fazenda da Bonita, Serra da Bocaina. Elevation 5,500 feet. On trunk of *Araucaria angustifolia.*

247213. POLYPODIUM sp.

Col. No. 18556A. Forest-Alfo da Serra Paranapiacaba. Usually on dry logs in deep shade.

247214. POLYPODIUM sp.

Col. No. 18607. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Epiphyte on small tree.

247215. RHIPSALIS CAPILLIFORMIS Weber Cactaceae.

Col. No. 18528. Instituto de Botanica, Sao Paulo.

247216. RHIPSALIS GRANDIFLORA (O. Kuntze) Haur.

Col. No. 18589. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. On tree trunk.

247217. RHIPSALIS sp.

Col. No. 18594. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Epiphyte in dense forest shade.

247218. SALPINGA MARGARITACEA Triana Onagraceae.

Col. No. 18562. Forest, Alto da Serra, Paranapiacaba. Low herbaceous plant; leaves dark green, marked with white spots along border.

247219. SELAGINELLA sp. Selaginellaceae.

Col. No. 18517. Institute de Botanica, Sao Paulo. Plant dark blue, usually on rocks in deep shade.

247220. SELAGINELLA sp.

Col. No. 18541. Forest, Alta da Serra, Paranapiacaba. Plant on rocks in deep shade.

247221. SELAGINELLA sp.

Col. No. 18543. Forest, Alta da Serra, Paranapiacaba. Plant dark green, creeping among rocks in deep shade.

247222. SELAGINELLA sp.

Col. No. 18576. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Plant on dry tree trunk in deep shade.

247223. SELAGINELLA sp.

Col. No. 18603. Fazenda da Bonita, Serra da Bocaina. Plant in deep forest shade, creeping along ground.

247224. SELAGINELLA sp.

Col. No. 18604. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Plant on moist rocks in deep forest shade.

247225. SELAGINELLA sp.

Col. No. 18671. Chacara Santa Rosa. Elevation 2,800 feet. Plant blue. Collected in Amazon Basin.

247226. SELANDRIA GRANDIFLORA Swartz Solanaceae. **Showy chalicevine.**

Col. No. 18519. Institute da Botanica, Sao Paulo. Scandent shrub; flowers large, yellow.

247227. STROBILANTHES sp. Acanthaceae.

Col. No. 18529. Instituto da Botanica, Sao Paulo. Plant to four feet high; leaves deep green with purple pubescence, deepening in color according to sunlight.

247228. TABEBUIA AVELLANEDAE var. PAULENSIS Toledo Bignoniaceae.

Col. No. 18665. 'Ipe Roseo'. Lizclotte Brandlis Garden, Sao Paulo. Elevation 2,800 feet. Plant to 45 feet high; flowers in large rose-colored clusters.

247229. TIBOUCHINA GRANDIFLORA Cogn. Melastomataceae.

Col. No. 18661. 'Orelha de Urso'. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Wide-spreading tree or tall shrub; leaves large, velvety; flowers in upright clusters, deep-purple.

247230. TIBOUCHINA sp.

Col. No. 18486. Institute Agronomico, Campinas. Shrub; leaves small; flowers red.

247231. TIBOUCHINA PULCHRA Cogn.

Col. No. 18564. 'Quaresmeira'. Forest, Alto da Serra, Paranapiacaba. Tree to 20 feet high; flowers purplish.

247232. TIGRIDIA PAVONIA (L.f.) Ker Iridaceae. **Common tigerflower.**

Col. No. 18667. Pollard's Garden, Sao Paulo. Elevation 2,800 feet. Flowers red, several on one stalk.

247233. TILLANDSIA sp. Bromeliaceae.

Col. No. 18494. Sao Benito. Frequent on tree trunks.

247234. TILLANDSIA sp.

Col. No. 18581. Fazenda da Bonita, Serra da Bocaina. Elevation 4,600 feet. Common in secondary growth on slopes.

247235. STACHYTARPHETA SPECIOSA Pohl Verbenaceae.

Col. No. 18524. Instituto de Botanica, Sao Paulo. Elevation 2,800 feet. Wide-spreading bush to 10 feet high; flowers deeps blue.

247236. VITTARIA sp. Polypodiaceae.

Col. No. 18593. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Epiphyte in deep forest shade.

247237. VRIESIA CARINATA Wawara Bromeliaceae.

Col. No. 18591. 'Carata'. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Epiphyte; flowers pink and yellow.

247238. VRIESIA HIEROGLYPHICA (Carr.) Morren

Col. No. 18560. Forest, Alto da Serra, Paranapiacaba. Epiphyte; leaves bright green, with darker green coarse-bands.

247239. VRIESIA sp.

Col. No. 18492. Sao Benito. Leaves dark green to purplish.

247240. VRIESIA sp.

Col. No. 18565. Forest, Alta da Serra, Paranapiacaba. Epiphyte; flowers pink and yellow.

247241. VRIESIA sp.

Col. No. 18631. Fazenda da Bonita, Serra da Bocaina. Elevation 3,600 feet. Epiphyte on trunk of *Araucaria angustifolia.*

247242. VRIESIA sp.

Col. No. 18694. 'Gravata'. Arvernas. Elevation 3,300 feet. Epiphyte.

247243 to 247248. Chacara Japonesa, Santos.

247243. BEGONIA sp. Begoniaceae.

Col. No. 18435. Plant to 2.5 feet high; flowers white. Believed to grow wild between Sao Paulo and Santos.

247244. PHYLLANTHUS sp. Euphorbiaceae.

Col. No. 18437. Low woody herb to 2 feet high; flowers small, pinkish.

247245. PEPEROMIA sp. Piperaceae.

Col. No. 18438. Leaves thick, dark green.

247246. HIBISCUS sp. Malvaceae.

Col. No. 18439. Bush to 4.5 feet high; leaves variegated green to creamy-white.

247247. PTERIS sp. Polypodiaceae.

Col. No. 18440. Fronds whitish along center.

247248. GURANIA VILLOSA Cogn. Cucurbitaceae.

Col. No. 18441. 'Mascote' 'Flor de la'. Climber covered with dense gray pubescence; flowers in terminal clusters, pinkish.

247249. BEGONIA sp. Begoniaceae.

Col. No. 18443. Chacara Thaumaturgo, Santos. Leaves grayish-purplish-brown below; flowers small, pale pink.

247250. (Undetermined.)

Col. No. 18506. Institute de Botanica, Sao Paulo. Shrub to 3 feet high; flowers pinkish.

247251. HYPOCYRTA RADICANS Klotzsch & Hanst. Gesneriaceae.

Col. No. 18537. Forest Alta da Serra, Paranapiacaba. Attached to tree trunk; leaves lustrous dark green; flowers white with mottled brown throat.

247252. (Undetermined.)

Col. No. 18542. Forest, Alta da Serra, Paranapiacaba. Epiphyte on tree fern; leaves purplish at times; flowers pinkish.

247253. NEMATANTHUS LONGIPES DC. Gesneriaceae.

Col. No. 18554. Forest, Alta da Serra, Paranapiacaba. Small shrub in scrub; leaves, small dark green in dense crown; fruit small, pinkish-red when ripe.

247254. OCTOMERIA LODDIGESII Lindl. Orchidaceae.

Col. No. 18574. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Epiphyte on dry tree trunk; flowers yellowish.

247255. (Undetermined.)

Col. No. 18580. Fazenda da Bonita, Serra da Bocaina. Elevation 5,000 feet. Plant 15 inches high on open slopes; flowers yellow.

247256. (Undetermined.)

Col. No. 18584. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Plant on tree trunk in shade.

247257. (Undetermined.)

Col. No. 18585. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Plant on tree trunk in deep forest shade.

247258. (Undetermined.)

Col. No. 18586. Fazenda da Bonita, Serra da Bocaina. Elevation 4,600 feet. Plant on tree trunk in deep forest shade.

247259. (Undetermined.)

Col. No. 18590. Fazenda da Bonita, Serra da Bocaina. Elevation 4,000 feet. Shrub to three feet high; flowers purplish to pink.

247260. ANTHURIUM HARRISII (Grah.) Engl. Araceae.

Col. No. 18597. Fazenda da Bonita, Serra da bocaina. Elevation 4,000 feet. Epiphyte in dense forest.

247261. PLEUROTHALLIS RADIALIS Poerto & Brade Orchidaceae. **Orchid.**

Col. No. 18616. Fazenda da Bonita, Serra da Bocaina. Epithyte; flowers small, yellowish-green.

247262. PLEIOCHITON sp. Melastomataceae.

Col. No. 18626. Fazenda da Bonita, Serra da Bocaina. Elevation 3,600 feet. Plant to 20 inches high.

247263. BLECHNUM sp. Polypodiaceae.

Col. No. 18627. Fazenda da Bonita, Serra da Bocaina. Elevation 3,600 feet. Epithyte in open scrub growth.

247264. KOHLERIA ERIANTHA (Benth.) Hanst. Gesneriaceae.

Col. No. 18663. Pollard's garden, Sao Paulo. Elevation 2,800 feet. Leaves serrate, pubescent, dark green, with reddish-brown border venation on underside.

247265. (Undetermined.)

Col. No. 18668. Chacara, Santa Rosa. Elevation 2,800 feet.

247266. (Undetermined.)

Col. No. 18676. Chacara, Santa Rosa. Elevation 2,800 feet. Originally from the Amazon region.

247267. SERISA FOETIDA Comm. Rubiaceae.

Col. No. 18685. Chacara, Santa Rosa. Elevation 2,800 feet. Originally from the Amazon valley.

247268. PASSIFLORA sp. Passifloraceae.

Col. No. 18687. 'Butterfly plant'. Chacara, Santa Rosa. Elevation 2,800 feet. Creeper.

247269. (Undetermined.)

Col. No. 18690. Chacara, Santa Rosa. Elevation 2,800 feet. Originally from the Amazon region.

247270. (Undetermined.)

Col. No. 18691. Chacara, Santa Rosa. Elevation 2,800 feet. Pendent; leaves small, densely pubescent; flowers orange-colored.

247271. MALPIGHIA COCCIGERA L. Malpighiaceae.

Col. No. 18695. Alta da Serra. Elevation 2,800 feet. In dense forest.

247272 and 247273.

From Great Britain. Plants purchased from Sunningdale Nurseries, Widdlesham, Surrey. Received Apr. 15, 1958.

247272. ACER JAPONICUM Thunb. Aceraceae. **Fullmoon maple.**

'Aureum'.

247273. ACER TETRAMERUM Pax **Maple.**

'Lobulatum'.

247274 to 247281.

From Great Britain. Seeds presented by R. W. Gunson Ltd., Dunstan's Hill, London. Received April 16, 1958.

247274. BETA MACRORHIZA Stev. Chenopodiaceae.

247275 to 247281. BETA VULGARIS L. **Sugar beet.**

Polyploid selection.

247275. T51–1.
247276. T51–2.
247277. T51–4.
247278. T51–9.
247279. T51–18.
247280. T51–21.
247281. T51–40.

247282 to 247297.

From Portugal. Seeds presented by Estacao Agronomica Nacional, Centro de Investigacao das Ferrugens do Cafeeiro, Oeiras. Received April 16, 1958.

Localities given are Portuguese sources of material.

247282 to 247287. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

247282. No. 956. Turrialba, Costa Rica.

247283. No. 957. Heredia, Meseta Central, Costa Rica.

247284. No. 958. Carizal, Alajuela, St. Isidro, Costa Rica.

247285. No. 953. San Ramon, Costa Rica.

247286. No. 954. Villalabos, Costa Rica.

247287. No. 955. Villa Sarchi, Costa Rica.

247288. COFFEA RACEMOSA Lour.

No. 883. D.M. 14 (Inhambane). Delegacao da Junta de Exportacao do Cafe, Mozambique.

247289 to 247293. COFFEA CANEPHORA Pierre ex Froehn. **Coffee.**

From Centre de Recherches Agronomiques, Bingerville, Ivory Coast.

247289. No. 930. INEAC No. 2.

247290. No. 931. INEAC No. 2 L. 5A4.

247291. No. 932. INEAC.

247292. No. 933. C 8.

247293. No. 934. Lulla.

247294. COFFEA sp.

No. 946. Local type. No. 91. Inhambane, Delegacao da Junta de Exportacao do Cafe, Mozambique.

247295. COFFEA sp.

Local type. No. 92.

No. 947. Inhambane, Delegacao da Junta de Exportacao do Cafe, Mozambique.

247296. COFFEA sp.

Local type.

No. 952. Posto Sanitario de Palma, Cabo Delgado, Mozambique.

247297. COFFEA sp.

Local type.

No. 959. 1/58 Extra. Posto Sanitario de Palma, Cabo Delgado, Mozambique.

247298. PRUNUS PERSICA (L.) Batsch Amygdalaceae. **Peach.**

From Canada. Trees presented by the Horticultural Experiment Station, Ontario. Received April 17, 1958.

No. 46108. 39058 ('Halehaven' × 'Vedette') × 'Vesper'. Tree requires light thinning; fruit ripens with July 'Elberta'; medium to large, bright red; flesh yellow, freestone, good quality.

247299 and 247300. CITRUS SINENSIS (L.) Osbeck Rutaceae. **Sweet orange.**

From Spain. Budsticks presented by the Estacion Naranjera de Levante, Burjasot, Valencia. Received Apr. 18, 1958.

247299. 'Cadenerasia Hueso'.

247300. 'Moro Catania'.

247301 and 247302. PINUS NIGRA Arnold Pinaceae. **Austrian pine.**

From Greece. Seeds presented by the Agricultural Attache, United States Embassy, Athens. Received Apr. 17, 1958.

247301. No. 1. Kalambaka District, Pindos Mountains.

247302. No. 2. Thassos Island, off the coast of eastern Macedonia.

247303. PHASEOLUS COCCINEUS L. Fabaceae. **Scarlet runner bean.**

From Ethiopia. Seeds presented by the United States Operations Mission, Addis Ababa. Received Apr. 29, 1958.

Elevation 7,700 feet. Runner type; biannual; immature seeds delicious.

247304 to 247307.

From Colombia. Seeds presented by the Rockefeller Foundation, Bogota. Received May 1, 1958.

247304. PASPALUM CONJUGATUM Bergius Poaceae.

247305. PASPALUM PLICATULUM Michx. **Black grass.**

247306. PASPALUM VIRGATUM L.

247307. PASPALUM sp.

247308 and 247309. GOSSYPIUM (hybrid). Malvaceae. **Cotton.**

From the British West Indies. Seeds presented by Douglas Taylor, Mague, Dominica. Received May 1, 1958.

247308. C.B. 3125.

247309. C.B. 3126.

247310. CRAMBE ABYSSINICA R. E. Fries Brassicaceae.

From Sweden. Seeds presented by the Weibullsholm Plant Breeding Institute, Landskrona. Received May 1, 1958.

247311. FRAGARIA (hybrid). Rosaceae. **Strawberry.**

From Germany. Seeds presented by the Institut fur Gartenbau, Dresden-Pillnitz. Received May 2, 1958.

'Weisse Baron Solmacher'. A monthly strawberry introduced into the trade in 1935. Leaves bright-green with a pale yellow sheen; fruit whitish-yellow with

greenish seeds; flavor sweet-sour, not very aromatic and the fruit is somewhat mealy; nonstoloniferous, propagated by seeds. Not susceptible to white spot disease.

247312. MYROTHAMNUS FLABELLIFOLIA Welw. Myrothamnaceae.

From South West Africa. Plants collected by Louis Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Maryland. Received May 5, 1958.

Col. No. 21591. 'Resurrection Plant'. Dry rocky hills about 15 miles southeast of Usazos. A curious plant; the dried leaves will open in about 24 hours after being wet.

247313. CAMELLIA sp. Theaceae.

From Nepal. Cuttings presented by the United States Operations Mission, Katmandu. Received May 5, 1958.

Collected by Capt. Aditya at 2,500 feet elevation. Climate much like that of the lower Mississippi area. Well drained acid soil.

247314. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

From France. Scions presented by the Lambertin Nurseries. Nimes (Gard). Received April 18, 1958.

'Frequin Lacaille'. Cider apple, cultivated for 60 years by Mr. Lecaille, Frischemesnil, Normandy.

247315 to 247360.

From Colombia. Seeds and tubers collected by D. S. Correll, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 18, 1958.

Received as tubers, unless otherwise noted.

247315. DIGITALIS PURPUREA L. Scrophulariaceae. **Common foxglove.**

Col. No. Co–463. Quebrada San Francisco, east of Bogota. Flowers large, reddish to white. (Seeds.)

247316. GOSSYPIUM sp. Malvaceae.

Col. No. Co–465. Hillsides, 1 km. south of Quebrada de Vera, road from Malaga to Soata, Santander. Plants to 4.5 meters high; flower yellow with red splotch at base. Bolls very small. (Seeds.)

247317. ILEX sp. Aquifoliaceae.

Col. No. Co–514. Near Totoro, Cauca. Broad-leaved evergreen tree or large shrub with yellow fruits. (Seeds.)

247318. IPOMOEA sp. Convolvulaceae.

Col. No. Co–479. Market, Pasto, Marino. Roots round or fusiform; skin reddish-purple; flesh white.

247319. SOLANUM ANDREANUM Baker Solanaceae.

Col. No. Co–487. About 18 km. from Pasto, road to La Union, Narino. Eleveation 2,900 meters. Plant simple or bushy; fruit round-ovoid, 2 cm. long; flowers purplish with darker stripes on back, rotate-stellate; tubers ellipsoid to 3 cm. long.

247320 to 247322. SOLANUM COLOMBIANUM Dunal

247320. Col. No. Co–498. Field near Encano, Narino. Elevation 3,100 meters. Plans spreading, branched; flowers white; fruits ovoid, to 3 cm. long. (Seeds.)

247321. Col. No. Co–500. Quebrada 15 km. from Pasto, road to San Francisco and Mocoa. Elevation 3,200 meters. Plants large, bushy; branches to 8 feet long; fruits ovoid, ellipsoid to 3 cm. long (Seeds.)

247322. Col. No. Co–525. Paramo 27 km. from Purace, Cauca. Plants large, bushy; flowers white, rotate-stellate; fruits ovoid-ellipsoid to 3 cm. long; no tubers found. (Seeds.)

247323. SOLANUM JUGLANDIFOLIUM Humb. & Bonpl.

Col. No. Co–492. Slope above bridge crossing Rio Putamayo near San Francisco, Narino. Plants large vines; fruits round, green, to 3 cm. in diameter. (Seeds.)

247324 and 247325. SOLANUM MOSCOPANUM Hawkes

247324. Col. No. Co–524. Paramo 32 km. from Purace, Cauca. Elevation 3,000 meters. Flowers light-lavender; fruits ovoid, to 2 cm. long. (Seeds & tubers.)

247325. Col. No. Co–527. Slope 18 km. from Purace, road to Mascopan, Cauca. Elevation 3,375 meters. Flowers lavender-blue with prominent white stripes along back of petals; tubers ellipsoid to 5 cm. long.

247326. SOLANUM TUQUERRENSE Hawkes.

Col. No. Co–509. Ravine, km. 105, between Aldana and Guachucal, Narino. Elevation 3,300 meters. Leaves much divided, shiny green above; flowers large, rotate, purple; fruits ovoid (immature) tuber ellipsoid.

247327. SOLANUM (hybrid).

Col. No. Co–459. Small farm near Choachi, Cundina Marca. Elevation 2,800 meters. Tubers round with shallow eyes; skin bronze; flesh whitish.

247328. SOLANUM (hybrid).

Col. No. Co–461. Road between Facattaiva and San Francisco, Cundina Marca. Elevation 2,800 meters. Plants bushy; flowers rotate, pale lavender; tubers round or ellipsoid, to 4 cm. long and 2 cm. wide.

247329 to 247338. Market, Pasto, Narino.

247329. SOLANUM (hybrid).

Col. No. Co–469. 'Chaucha' or 'Braziliana'. Tubers round with deep set eyes; skin reddish-purple; flesh yellow.

247330. SOLANUM (hybrid).

Col. No. Co–470. 'Tocana'. Tubers ellipsoid, compressed, small shallow eyes; skin pink or flesh-color; flesh yellowish white.

247331. SOLANUM (hybrid).

Col. No. Co–471. 'Guata'. Tubers round with few shallow eyes; skin bronze color; flesh light-yellow.

247332. SOLANUM sp.

Col. No. Co–472. 'Guata'. Tubers discoid with small eyes; skin dull purple and brownish; flesh light lemon-yellow.

247333. SOLANUM sp.

Col. No. Co–473. 'Chaucha Blanca'. Tubers round and ellipsoid with deep wide eyes; skin tan color; flesh whitish.

247334. SOLANUM sp.

Col. No. Co–474. 'Guata'. Tubers round compressed, with wide yellow eyes; skin blackish-purple; flesh yellowish-white.

247335. SOLANUM sp.

Col. No. Co–475. 'Ajona'. Tubers round with deep wide round eyes; skin mottled purplish and tan; flesh white.

247336. SOLANUM sp.

Col. No. Co–476. 'Pamba Morada'. Tubers round, compressed, with shallow small eyes; skin reddish-bronze; flesh yellowish.

247337. SOLANUM sp.

Col. No. Co–477. 'Pamba Blanca'. Tubers round, compressed, with shallow eyes; skin white; flesh white.

247338. SOLANUM sp.

Col. No. Co–478. Tubers round; eyes shallow; skin white; flesh whitish.

247339. SOLANUM sp.

Col. No. Co–490. On brushy slope 1.5 km. east of Santiago on road to San Francisco, Narino. Elevation 2,200 meters. Plants large and usually branched, to 1 meter high; flowers reddish-purple, rotate; tubers round, small.

247340. SOLANUM sp.

Col. No. Co–491. Two km. east of Santiago, on road to San Francisco, Narino. Elevation 2,200 meters. Plants robust, simple or much-branched; leaves very dark green; flowers reddish-purple; tubers irregular; fruits round, green, to 1.5 cm. long. Apparently blight resistant.

247341. SOLANUM sp.

Col. No. Co–501. 'Pamba Colorado'. Market Tuquerres, Narino. Tubers round, with small eyes; skin purplish-pink; flesh yellow.

247342. SOLANUM sp.

Col. No. Co–502. 'Curiquinga'. Market, Tuquerres, Narino. Tubers roundish with rather deep yellow eyes; skin dull purplish; flesh yellowish.

247343. SOLANUM sp.

Col. No. Co–503. 'Chaucha Negro'. Market, Tuquerras, Narino. Tubers ellipsoid, with deep, wide eyes; skin dark-purple; flesh deep-yellow.

247344. SOLANUM sp.

Col. No. Co–504. 'Chaucha Colorada'. Market, Tuquerres, Narino. Tubers round or ellipsoid, with deep, wide eyes; skin blood-red; flesh deep-yellow.

247345. SOLANUM sp.

Col. No. Co–505. 'Flor Blanca'. Market, Tuquerres, Narino. Tubers round, compressed, with small, shallow eyes; skin white; flesh white.

247346. SOLANUM sp.

Col. No. Co–506. 'Calovera Blanca'. Market, Tuquerres, Narino. Tubers round with broad, deep eyes; skin white; flesh white.

247347. SOLANUM sp.

Col. No. Co–510. In ravine, 105 km. from Narino between Aldana and Guachucal. Elevation 3,300 meters. Stem and calyx very hispid; flowers purple; tubers ellipsoid.

247348 to 247356. Market Popayan, Cauca.

247348. SOLANUM sp.

Col. No. Co–515. 'Guata Roja'. Tubers round, with broad shallow eyes; skin purplish-red; flesh yellow.

247349. SOLANUM sp.

Col. No. Co–516. 'Guata Morada'. Tubers round with broad, deep, white-margined eyes; skin dull-purple; flesh whitish.

247350. SOLANUM sp.

Col. No. Co–517. 'Guata'. Tubers ellipsoid, with long narrow shallow eyes; skin bronze-colored; flesh deep lemon-yellow.

247351. SOLANUM sp.

Col. No. Co–518. 'Guata Malvacena'. Tubers round, compressed, with shallow eyes; skin white with reddish blotches; flesh yellow.

247352. SOLANUM sp.

Col. No. Co–519. 'Papa Amarilla'. Tubers ellipsoid with broad folded eyes; skin white with deep pink mottlings; flesh deep–yellow.

247353. SOLANUM sp.

Col. No. Co–520. 'Pastuza'. Tubers ellipsoid, compressed, with broad shallow eyes; skin dull pink; flesh yellowish.

247354. SOLANUM sp.

Col. No. Co–521. 'Silviana'. Tubers round with numerous deep eyes; skin white with purplish-red markings; flesh deep golden-yellow.

247355. SOLANUM sp.

Col. No. Co–522. 'Guata Puracena'. Tubers ovoid, compressed, with superficial eyes; skin white or white with purplish-red blotches; flesh yellow.

247356. SOLANUM sp.

Col. No. Co–523. 'Papa Blanca'. Tubers round with small deep eyes; skin white; flesh white.

247357. SOLANUM sp.

Col. No. Co–529. On open cutover slope, among cultivated potatoes, 18 km. from Purace on road to Mascopan, Cauca. Elevation 3,375 meters. Flowers blue; tubers ellipsoid, to 5 cm. long.

247358. SOLANUM ANDREANUM Baker

Col. No. Co–487. Pasto, on road to La Union, Narino, Dept. (Fruits.)

247359. SOLANUM MOSCOPANUM Hawkes

Col. No. Co–524. Paramo, on road to Moscopan Dept. (Fruits.)

247360. SOLANUM sp.

Col. No. Co–491. Paramo, east of Santiago, on road to San Francisco, Narino Depart. (Fruits.)

247361. SACCHARUM OFFICINARUM L. Poaceae. **Sugarcane.**

From Germany. Cuttings presented by the Botanic Garden, Berlin-Dahlem. Received Apr. 21, 1958.

247362 to 247366.

From Kenya. Seeds presented by the East African Agriculture and Forestry Research Organization, Kikuyu. Received Apr. 21, 1958.

247362. IPOMOEA CRASSICAULIS (Benth.) B. L. Rob. Convovulaceae. **Morning-glory.**

247363. IPOMOEA DASYSPERMA Jacq. **Morning-glory.**

247364. IPOMOEA PURPUREA L. **Common morning-glory.**

247365. IPOMOEA sp.

247366. QUAMOCLIT LOBATA (Cerv.) House Convolvulaceae. **Crimson starglory.**

247367 to 247382. ARACHIS HYPOGAEA L. Fabaceae. **Common peanut.**

From French West Africa. Seeds presented by the Centre de Recherches Agronomiques de Bambey, Senegal. Received Apr. 21, 1958. French West African sources indicated.

247367. 'Porto-Alegre'. Plovdiv, Bulgaria.

247368. 'Rouge de Plovdiv'; 'Valencia'. Plovdiv, Bulgaria.

247369. 'Simba-Tiga'; ('Jumbo'.) French Guinea.

247370. 28–219. ('Virginia Bunch'.) French Guinea.

247371. 29–70. ('Baol Rampant'.) Gossas, Senegal.

247372. 32–11. ('Philippine White'.) Gambia.

247373. 40–101. ('Baol Dresse'.) Bambey, Senegal.

247374. 47–10. ('Java'.) Madagascar.

247375. 47–12. ('Java'.) Madagascar.

247376. 48–44. ('Virginia Bunch'.) Ferkessedougou, Ivory Coast.

247377. Pop. 17. ('Saloum Dresse'.) Ivory Coast.

247378. Pop. 34. ('Saloum Dresse'.) Ivory Coast.

247379. Pop. 171. ('Baol Rampant'.) Louga, Senegal.

247380. Pop. 289. ('Saloum Dresse'.) Secco Keur Valy N'Diaye, Kaolock, Senegal.

247381. Pop. 293. ('Cayor Rampant'.) Secco de Keur Cheikhou, Djilor, Senegal.

247382. P.I. 54. ('Chine'.) Antalya, Turkey.

247383 to 247397.

From Angola. Plant material collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 22, 1958.

Collected as bulbs unless otherwise noted.

247383. ALOE sp. Liliaceae.

Col. No. 21471. Twenty km. north of Sa da Bandeira. Plant develops stem to 2 meters long.

247384. GLADIOLUS sp. Iridaceae.

Col. No. 21531. Abundant in moist meadow, about 30 km. south of Vila Robert Williams. Elevation 1,600 meters. Leaves to 30 cm. long.

247385. GLADIOLUS sp.

Col. No. 21530. In loose red soil near Cusse. Elevation 1,600 meters. Leaves to 50 cm. long.

247386. MORAEA EDULIS Ker.-Gawl. Iridaceae.

Col. No. 21500. Hillsides near head of Bimbe (Canyon), about 25 km. northwest of Humpata. Elevation 2,200 meters. Bulbs tunicate; stems to 50 cm. high; leaves linear to 100 cm. long; flowers deep purple, almost black.

247387. IRIS sp. Iridaceae.

Col. No. 21557. Low scrub area, 15 km. north of Nova Lisboa. Elevation 1,800 meters. Stalk to 50 cm. high; flowers blue.

247388. IRIS sp.

Col. No. 21558. Five km. north of Nova Lisboa. Elevation 1,800 meters. Stalk to 60 cm. high; flowers yellow.

247389. SANSEVIERIA sp. Liliaceae.

Col. No. 21459. Twenty km. north of Sa da Bandeira. Elevation 1,900 meters. Leaves elliptic, to 25 cm. long, 7 cm. broad; mottled, margins sphacelate. (Plants.)

247390. SANSEVIERIA sp.

Col. No. 21504. Abundant in the scrub near Mucuma. Elevation 1,600 meters. Leaves to 80 cm. high, canaliculate at the base. (Plants.)

247391. SANSEVIERIA sp.

Col. No. 21528. In scrub forest near Chicomba, Angola. Elevation 1,400 meters. Leaves sphacelate, sometimes tessellate above, to 30 cm. long. (Cuttings.)

247392. (Undetermined.)

Col. No. 21460. Twenty km. north of Sa da Bandeira, Angola. Elevation 5,800 meters. Bulbous plant to 1 meter high, not common.

247393. (Undetermined.)

Col. No. 21461. Twenty km. north of Sa da Bandeira in scrub forest area. Elevation 1,700 meters. Plant to 1 meter high; root comose.

247394. (Undetermined.)

Col. No. 21462. Twenty km. north of Sa da Bandeira. Elevation 1,600 meters. Terrestrial; roots large; calanthe-like bulbs above ground. (Plant.)

247395. (Undetermined.)

Col. No. 21501. Slopes 5 km. north of Hampata. Elevation 2,100 meters. Salmon-color flowers, similar to small gladiolus.

247396. (Undetermined.)

Col. No. 21529. In scrub forest near Chicomba. (Plants.)

247397. SCILLA LANCEAEFOLIA Baker. Liliaceae.

Col. No. 21448. Twenty-five km. north of Nova Lisboa. Bulbs round; leaves 20 cm. long and 5 cm. wide.

247398 to 247403.

From Greece. Seeds presented by the Agricultural Attache, United States Embassy, Athens. Received April 22, 1958.

247398 and 247399. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

247398. 'Astakon'. Astakos.

247399. 'Manolados'. Manolas, N.W. Peloponnesus.

247400 to 247403. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

247400. 'Argos'. Argos, N.E. Peloponnesus.

247401. 'Chimoniatiko Psachnon'. Psachna, Euboea.

247402. 'Krithino Psachnon'. Psachna, Euboea.

247403. 'Orchomenos'. ('Moulki'.) Orchomenos, near Levadis.

247404 to 247413.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 22, 1958.

From the Yangambi Station of Institut National pour l'Etude Agronomique du Congo Belge.

247404. BRACHIARIA RUZIZIENSIS Germain & Evrard Poaceae.

Col. No. 21068. Plant to 50 cm. high; leaves broad and tender. Sodium content said to be high.

247405. CASSIA HIRSUTA L. Caesalpiniaceae. **Senna.**

Col. No. 21076. Suffruticose annual to two meters high.

247406. CENTROSEMA PUBESCENS Benth. Fabaceae.

Col. No. 21064. Vines to 20 cm. long. Useful pasture protein additive.

247407. CROTALARIA AXILLARIS Ait. Fabaceae.

Col. No. 21071. Annual savanna plant of interest as green manure.

247408. CROTALARIA INCANA L.

Col. No. 21072. Annual savanna plant of interest as green manure.

247409. INDIGOFERA sp. Fabaceae.

Col. No. 21063. Small plant with purple-mauve flowers. Useful as low grass pasture.

247410 and 247411. SETARIA SPHACELATA (Schum.) Stapf & Hubb. ex. M. B. Moss Poaceae. **Millet.**

247410. Col. No. 21061. Caespitose; blades to 50 cm. long.

247411. Col. No. 21069. Somewhat stoloniferous, to 50 cm. high; inflorescence to one meter high; leaves broad. Sodium content said to be high.

247412. STYLOSANTHES GRACILIS H. B. K. Fabaceae.

Col. No. 21060. Plant to one meter high or less when grazed or kept cut back. Said to fruit better in drier savanna areas.

247413. THEMEDA GIGANTEA (Cav.) Hack. Poaceae. **Redgrass.**

Col. No. 21070. Grass to five meters high.

247414 and 247415. FRAGARIA (hybrids). Rosaceae. **Strawberry.**

From Great Britain. Plants presented by the Scottish Horticultural Institute, Mylnefield, Invergowrie, Dundee, Angus, Scotland. Received Apr. 22, 1958.

'Redgauntlet', a new commercial variety released in England a year ago. Resistant to the common race of red stele disease.

247414. Grown at East Loan Field, Mylnefield.

247415. Grown at Gauze House, Mylnefield.

247416 to 247431. DIANTHUS (hybrids). Silenaceae. **Pink.**

From France. Cuttings received from the Ministere do l'Agriculture, Nice. Received Apr. 23, 1958.

247416. 'Ambossadeur'.
247417. 'Boreal'.
247418. 'Carnaval'.
247419. 'Liberation'.
247420. 'Messaline'.
247421. 'Mistral'.
247422. 'Monique'.
247423. 'Primavera'.
247424. 'P.I. Awriol'.
247425. 'Rayou D'Or'.
247426. 'Rodeo'.
247427. 'San Severina'.
247428. 'Seduction'.
247429. 'Vedette'.
247430. 'Versailles'.
247431. 'Ville de Nice'.

247432 to 247438.

From Somalia. Seeds presented by Edgar J. Reeves, Mogadisco. Received April 23, 1958.

247432. AGROSTIS CANINA L. Poaceae. **Velvet bentgrass.**

A perennial rootstock type of grass 40 km. south of Baidoa, in dry farming area; eaten readily by cattle and sheep.

247433. CANAVALIA sp. Fabaceae.

Elevation 500 meters. Vine with attractive flowers.

247434. CORCHORUS sp. Tiliaceae.

From Bonca farm near Baidoa. Elevation 500 meters. Plant eaten by cattle and sheep.

247435. CROTALARIA SENEGALENSIS Bacle. Fabaceae.

Twenty km. west and south of Baidoa. Elevation 500 meters. Camels, cows, and sheep graze the plants when green.

247436. INDIGOFERA sp. Fabaceae.

Bonca Experiment farm near Baidoa. Elevation 500 meters.

247437. SORGHUM VERSICOLOR Anderss. Poaceae. **Black sudangrass.**

Near Baidoa.

247438. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Bonca Experimental Station, Baidoa.

247439 to 247441.

From Japan. Seeds presented by the Faculty of Agriculture, Kyushu University, Fukuoka. Received Apr. 24, 1958.

247439. STIZOLOBIUM HASSJOO Piper & Tracy Fabaceae. **Yokohama velvetbean.**

247440. STIZOLOBIUM PRURIENS (Wight) Piper & Tracy **Cowhage velvetbean.**

247441. STIZOLOBIUM sp.

247442 to 247444. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

From Sweden. Scions presented by the Horticultural Research Station, Akarp. Received Apr. 24, 1958.

247442. 'Alfa 68'. A triploid 'Belle de Boskoop' × diploid 'Filippa' from Alnarp Gardens. Tree vigorous; branches spreading; self-fertile, late, bearing even on weak stocks; fruit large, round-oval, somewhat irregular; color similar to 'Belle de Boskoop', green-yellow with a grey russet cover with a distinct flush; flesh cream-colored, firm, brittle, faintly acid with a pleasant flavor; excellent for cooking.

247443. 'Mio'. ('Worcester Pearmain' × 'Oranie') made at Akarp in 1932. Tree upright in habit; leaves medium oblong; flowers mid-season; pollinators 'Cortland', 'Melba', 'James', 'Grieve', 'White', 'Transparente', and 'Safstaholm'; fruit medium round, conical, somewhat flattish, fairly regular; skin thick, green-yellow, with a brilliant red covering most of the fruit; flesh white, tender, fine texture, faintly acid, juicy, with a pleasant flavor.

247444. 'Snovit': ('Stenback' × 'Pfirsichroter Sommerapfel'). Selection made in 1946. Tree vigorous, very hardy; leaves broad, oblong, faintly accuminate; flowers early; pollinators 'White Transparente', 'Suislepper', 'Early Red Bird' and 'Milba'; fruit medium size, conical, irregular; skin thick, white-yellow and carmine-red, highly colored; flesh white; flavor good. An early dessert apple.

247445 and 247446. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

From Ethiopia. Seeds presented by the United States Operations Mission, Addis Ababa. Received April 24, 1958.

247445. Wush-Wush, near Bonga, Kaffa Province. Long square-tipped bean. Elevation 1,800 meters.

247446. 'Zeghie'. Peninsula which juts into Lake Tana. Elevation 1,750 meters. Fruit and leaf characteristics indicate an 'Angustifolia' type.

247447 to 247473.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received April 24, 1958.

Collected in the Belgian Congo unless otherwise noted.

247447. ACACIA DECURRENS Willd. Mimosaceae. **Green wattle.**

Col. No. 21241. Five km. south of Kayna, Nord du Kivu Province. Elevation 5,800 feet. Tree to 15 meters high.

247448. ACACIA MACROTHYRSA Harms

Col. No. 21137. In closed savanna, Anglo-Egyptian Sudan, about 35 km. north of Aba. Tree about 10 meters high; foliage feathery and not unlike some Australian species.

247449. ACACIA MOLLISSIMA Willd. **Black wattle.**

Col. No. 21202. Nioka Station of Institut National pour l-Etude Agronomique du Congo. Small trees.

247450. ANGELICA sp. Apiaceae.

Col. No. 21323. In lava field 30 km. south of Rutshuru. Plants to two meters high with abundant seed.

247451. BAUHINIA THONNINGII Schum. Caesalpiniaceae.

Col. No. 21110. Dry savanna 20 km. north of Niangara. Small tree, closely related to *B. reticulata.*

247452. BAUHINIA sp.

Col. No. 21078. Yangambi Station of Institut National pour l'Etude Agronomique du Congo. Shrub to four meters high; flowers yellow.

247453. CAESALPINIA SEPIARIA Roxb. Caesalpiniaceae. **Mysore thorn.**

Col. No. 21251. About 20 km. south of Nioka, near Fataki. A rampant spiny shrub; flowers yellow; fruits many; gum or mucilage in the immature pods.

247454. CASSIA CORYMBOSA Lam. Caesalpiniaceae. **Flowery senna.**

Col. N. 21266. Twenty km. east of Beni. Shrub to two meters high.

247455. CASSIA SIAMEA Lam. **Siamese senna.**

Col. No. 21130. Dry savanna region 20 km. west of Faradja. Tree to 30 meters high. A fine shade tree for dry, hot regions; also good wood for use in construction.

247456. CASSIA sp.

Col. No. 21059. Yangambi Station grounds. Tree to 10 meters with showy yellow flowers; seed pod 25 cm. long.

247457. CASSIA sp.

Col. No. 21141. Dry savanna 5 km. north of Aba. Plant to 50 cm. high; pods abundant.

247458. CASSIA KIRKII var. GUINEENSIS Steyaert **Senna.**

Col. No. 21278. Near Butembo. Shrub; pods abundant.

247459. CASSIA sp.

Col. No. 21326. Fifty km. south of Rutshuru. Plant to 2 meters high.

247460. CEIBA PENTANDRA (L.) Gaertn. Bombacaceae. **Kapok.**

Col. No. 21302. Rutshuru. Tree to 25 meters high; crown widespreading.

247461. CNESTIS FERRUGINEA DC. Connaraceae.

Col. No. 21079. Yangambi Station of Institut National pour l'Etude Agronomique du Congo. Small tree or large shrub; fruits showy.

247462. COFFEA sp. Rubiaceae.

Col. No. 21206. Forest near Nioka. Small shrub possibly escaped from cultivation.

247463. COMBRETUM PANICULATUM Vent. Combretaceae.

Col. No. 21133. Savanna area 25 km. west of Faradje. Vine; flowers red.

247464. CROSSOPTERYX FEBRIFUGA Benth. Rubiaceae.

Col. No. 21113. Savanna at Magombo Station of Institut National pour l'Etude Agronomique du Congo, 30 kms. north of Niangara. Tree to 10 meters high.

247465. EUPHORBIA sp. Euphorbiaceae.

Col. No. 21296. Ruindi, near Lake Edward. Ornamental for tropics with long dry season.

247466. HIBISCUS sp. Malvaceae.

Col. No. 21115. Savanna 20 kms. east of Niangara. Plant 1 meter high; calyces with red glands.

247467. HIBISCUS sp.

Col. No. 21136. Five kms. north of Aba. Plant to 1 meter high; calyces fleshy, not spiny.

247468. PACHYRHIZUS EROSUS (L.) Urban Fabaceae. **Yam-bean.**

Col. No. 21058. Yangambi Station of Institut National pour l'Etude Agronomique du Congo. Tree to 6 meters high.

247469. TEPHROSIA sp. Fabaceae.

Col. No. 21264. Gravel pit 20 kms. east of Beni.

247470. URENA LOBATA L. Malvaceae.

Col. No. 21111. Savanna near Niangara. Plant to 30 cm. high.

247471. VERNONIA sp. Asteraceae.

Col. No. 21117. Savanna at Magombo Station of Institut National pour l'Etude Agronomique du Congo, 30 kms. north of Niangara. Flowers blue-purple.

247472. (Undetermined.)

Col. No. 21062. Yangambi Station of Institut National pour l'Etude Agronomique du Congo. Handsome tree to 20 meters high; foliage dark-green.

247473. (Undetermined.)

Col. No. 21080. Yangambi. Tree to 20 meters in forest; leaves decompound; pods indehiscent.

247474 and 247475.

From Somalia. Seeds collected by E. H. Reeves, Mogadisco. Received April 25, 1958.

247474. TEPHROSIA sp. Fabaceae.

'Dargo Lo'. Bonca Experimental Farm near Baidoa. A native species being developed in dry land areas for use in rotation to crop feed. Livestock and sheep eat it readily. Rainfall 400 to 500 cm. per year, 250–300 cm. in the rainy season.

247475. TEPHROSIA sp.

Bonca Experiment Farm about 4,500 meters elevation. May be same as sample of 'Dargo Lo'. Seeds generally smaller and plant appeared to be slightly smaller-leafed and not as coarse. Rainfall 400 to 550 cm.; 250 to 300 cm. in harvest season.

247476 to 247527.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Apr. 25, 1958.

247476. ARGYROLOBIUM AEQUINOCTIALE Welw. & Baker Fabaceae.

Col. No. 21166. Institut National pour l'Etude Agronomique du Congo. Station, Nioka. Shrub to 70 cm. high; foliage green, nearly to ground at end of dry season.

247477. BECKEROPSIS UNISETA (Nees) Stapf ex Robyns Poaceae.

Col. No. 21229. Nioka Station, Institut National pour l'Etude Agronomique du Congo.

247478. CENTROSEMA PLUMIERI (Turp.) Benth. Fabaceae.

Col. No. 21090. Bambesa Station, Institut National pour l'Etude Agronomique du Congo.

247479. CENTROSEMA PUBESCENS Benth.

Col. No. 21084. Bambesa Station, Institut National pour l'Etude Agronomique du Congo. Perennial, good for pasture.

247480. CROTALARIA INCANA L. Fabaceae.

Col. No. 21285. Ten km. south of Beni. Plant to 1 meter high.

247481. CROTALARIA LACHNOCARPA Hochst.

Col. No. 21319. North end of Lake Kivu. Plant to 2 meters high.

247482. CROTALARIA MUCRONATA Desv. **Striped crotalaria.**

Col. No. 21322. West side of Lake Kivu near Bntare. Plant to 1 meter high. Abundant pods.

247483. CROTALARIA sp.

Col. No. 21085. Wild in savanna, Bambesa. Plant to 1 meter high.

247484. CROTALARIA sp.

Col. No. 21138. Savanna about 30 km. north of Aba. Plant to 1 meter high.

247485. CROTALARIA sp.

Col. No. 21147. Five km. north of Aba. Plant to 50 cm. high.

247486. CROTALARIA ORTHOCLADA Welw.

Col. No. 21208. Forest area north of Kivu Mountains, 60 km. south of Lubero. Plant to 1 meter high; flowers yellow.

247487 CROTALARIA sp.

Col. No. 21235. Ten km. north of Kayua, Nord du Kivu Province. Plant to 1 meter high; leaves small.

247488. CROTALARIA sp.

Col. No. 21237. Five km. north of Kayna, Nord du Kivu Province. Plant to 1 meter high; flowers yellow.

247489. CROTALARIA CHRYSOCHLORA Baker f.

Col. No. 21246. Near Kayna, Nord du Kivu Province. Plant to 50 cm. high; flowers yellow.

247490. CROTALARIA sp.

Col. No. 21249. In dry savanna, 25 km. south of Fatski. Herb to 50 cm. high.

247491. CROTALARIA sp.

Col. No. 21286. Fifteen kms. south of Beni. Plant to 1 meter high; flowers yellow.

247492. CROTALARIA sp.

Col. No. 21301. In grass 5 km. south of Rutshuru. Plant to 2 meters high; pods abundant.

247493. CROTALARIA INTERMEDIA Kotschy **Slenderleaf crotalaria.**

Col. No. 21306. Three km. south of Rutshuru. Plants to 2 meters high; flowers yellow.

247494. ARGYROLOBIUM AEQUINOCTIALE Welw. Fabaceae.

Col. No. 21313. Lava 10 kms. north of Goma. Shrub to 30 cm. high.

247495. CROTALARIA ACULEATA var. CLAESSENSII (DeWild.) Wilczek. Fabaceae.

Col. No. 21315. Ten kms. north of Goma. Plant to 50 cm. high; spiny.

247496. CROTALARIA LEBRUNII Baker f.

Col. No. 21320. Hills above Lake Kivu near Butare. Plant to 4 meters high; flowers pale yellow-green.

247497. CROTALARIA OOCARPA Baker

Col. No. 21321. Hills above Lake Kivu near Butare. Leaves very small.

247498. CROTALARIA sp.

Col. No. 21325. Five km. south of Rutshuru. Annual to 1 meter high.

247499. CROTALARIA sp.

Col. No. 21332. Ten km. north of Goma. Plant to 1 meter high; flowers yellow.

247500. CYNODON DACTYLON (L.) Pers. Poaceae. **Bermudagrass.**

Col. No. 21211. Nioka Station, INEAC.

247501. CYNODON PLECTOSTACHYUM (Schum.) Pilg. **Stargrass.**

Col. No. 21224. Nioka Station, INEAC.

247502. ERIOSEMA PSORALIOIDES (Lam.) G. Don Fabaceae.

Col. No. 21097. Bambesa Station, INEAC. Plant to 1 meter high.

247503. ERIOSEMA sp.

Col. No. 21106. Savanna near Magombo Station, INEAC, 30 km. north of Niangara. Plant to 40 cm. high.

247504. CROTALARIA TENUIRAMA Welw. Fabaceae.

Col. No. 21120. Savanna near Magombo Station, INEAC, 30 kms. north of Niangara. Plant to 30 cm. high; flowers green.

247505. ERIOSEMA PSORALIOIDES var. GRANDIFLORUM Staner & DeCreaene Fabaceae.

Col. No. 21275. Fifteen km. south of Beni. Flowers yellow.

247506. GLYCINE JAVANICA L. Fabaceae.
Col. No. 21317. Fifteen km. west of Goma. Vine.

247507. INDIGOFERA sp. Fabaceae.

Col. No. 21124. Savanna area, Gangala Na Bodio.

247508. INDIGOFERA LONGEBRACTEATA Engl.

Col. No. 21243. Five km. north of Kayna, Nord du Kivu Province. Plant 1 meter high, much-branched; flowers red.

247509. INDIGOFERA SUAVEOLENS Jaub. & Spach **Indigo.**

Col. No. 21253. Five km. south of Bunia. Plant one meter high.

247510. INDIGOFERA sp.

Col. No. 21265. Savanna, 25 km. east of Beni. Plant prostrate.

247511. INDIGOFERA PANICULATA Pers. **Indigo.**

Col. No. 21267. Twenty five km. east of Beni.

247512. INDIGOFERA VISCOSA Lam. **Indigo.**

Col. No. 21268. Savanna, 25 km. east of Beni.

247513. INDIGOFERA sp.

Col. No. 21281. Savanna, about 30 km. east of Beni. Shrub to two meters high.

247514. INDIGOFERA sp.

Col. No. 21291. Dry hills above Kayna. Shrub to two meters high.

247515. INDIGOFERA ARRECTA Hochst. **Indigo.**

Col. No. 21298. Near Kayna, Nord du Kivu Province. Shrub to one meter high.

247516. INDIGOFERA SETOSISSIMA Harms. **Indigo.**

Col. No. 21311. Lava fields, 50 km. south of Rutshuru.

247517. INDIGOFERA SUBULATA Vahl ex Poir. **Indigo.**

Col. No. 21316. Ten km. north of Goma. Shrub.

247518. SESBANIA sp. Fabaceae.

Col. No. 21165. INEAC Station at Nioka. Vine.

247519. URARIA PICTA (Jacq.) Desv. Fabaceae.

Col. No. 21101. Savanna, 10 km. north of Dungu. Attractive perennial, 1.5 feet high from sandy places in Guinea; leaves in erect terminal spikes.

247520. VIGNA SCHIMPERI Baker Fabaceae.

Col. No. 21219. Nioka Station, INEAC.

247521. VIGNA SINENSIS (Torner) Savi **Common cowpea.**

Col. No. 21160. Market at Aba.

247522. VIGNA sp.

Col. No. 21146. Savanna 30 kms. north of Aba. Vine; flowers attractive.

247523. VIGNA VEXILLATA var. ANGUSTIFOLIA (Schumach.) Baker

Col. No. 21299. Ten kms. north of Kayna, Nord du Kivu Province. Long vine.

247524. VIGNA MICRANTHA Harms

Col. No. 21300. Near Kayna, Nord du Kivu Province. Vine; flowers yellowish.

247525. (Undetermined.)

Col. No. 21121. In savanna area 8 km. north of Aba. Plant to 10 cm. high; flowers yellow.

247526. TEPHROSIA MILBRAEDII Harms Fabaceae.

Col. No. 21209. Mountains of North Kivu, 40 km. south of Lubero. Shrub to 2 meters high.

247527. (Undetermined.)

Col. No. 21282. Gravel pit about 20 km. east of Beni. Small shrub; flowers yellow.

247528. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

From Thailand. Seeds presented by Alex Johnson, United States Operations Mission, Bangkok. Received April 28, 1958.

'Tha Phra'. From Plot No. 43. Reported to be virus resistant.

247529 to 247670. VITIS (hybrid). Vitaceae.

From Germany. Cuttings presented by the Landes-Lehr- und Forschungsanstalt, Neustadt. Received April 28, 1958.

247529 to 247572. Originally from the Crimea, Union of Soviet Socialist Republics.

247529. No. 532. 'Alexander'. North America

247530. No. 533. 'Mourvedre Femelle'.

247531. No.535. 'Bulgar Isium'

247532. No. 538. 'Serva'.

247533. No. 539. 'Adjem Misquet'.

247534. No. 540. 'Aibatly'.

247535. No. 541. 'Agatsch Sap'.

247536. No. 542. 'Asma Weis'.

247537. No. 543. 'Barmak Isium'.

247538. No. 545. 'Bias Aibatly'.

247539. No. 546. 'Bias Kokour'.

247540. No. 547. Bias Kukuzeti'.

247541. No. 548. 'Blane de Crimei'.

247542. No. 549. 'Dschan im Isium'.

247543. No. 550. 'Mursa Isium'.

247544. No. 551. 'Chabache Blanci'.

247545. No. 552. 'Schira Isium'.

247546. No. 554. 'Kandavasta'.

247547. No. 555. 'Kakourdess Weis'.

247548. No. 556. 'Kakour Weis'.

247549. No. 557. 'Misquette'.

247550. No. 559. 'Nuju Isium'.

247551. No. 560. 'Stambul Ali'.

247552. No. 561. 'Taschli'.

247553. No. 562. 'Ter Gulmek'.

247554. No. 564. 'Chaouch de Crimee'.

247555. No. 565. 'Chabache'.

247556. No. 566. 'Cirmisi Sap de Sudak'.

247557. No. 567. 'Abla Aganin Isium'.

247558. No. 568. 'Albourlah'.

247559. No. 569. 'Asma Sohwars'.

247560. No. 570. 'Demir Kara'.

247561. No. 572. 'Al Borla'.

247562. No. 573. 'Asma'.

247653. No. 574. 'Capitaine Jani Kara'.

247654. No. 577. 'Kefessia'.

247565. No. 578. 'Missgulli Kara'.

247566. No. 579. 'Kovalewka'.

247567. No. 581. 'Kokour Rot'.

247568. No. 583. 'Rosa Reveliotti'.

247569. No. 587. 'Tschingine Kara'.

247570. No. 588. 'Schwarz aus der Krim'.

247571. No. 591. 'Mavro Kara aus Nikita'.

247572. No. 593. 'Muscat Nascourlah'.

247573 to 247585. Originally from Bessarabia, Union of Soviet Socialist Republics.

247573. No. 596. 'Kabasma'.

247574. No. 597. 'Barmak Isium'.

247575. No. 598. 'Beloglaska'.

247576. No. 602. 'Fachren Weis'.

247577. No. 604. 'Rosa Minna'.

247578. No. 605. 'Demerdija'.

247579. No. 609. 'Adery'.

247580. No. 611. 'Arlick'.

247581. No. 613. 'Allwarna'.

247582. No. 614. 'Bellardje'

247583. No. 615. 'Plawaja'.

247584. No. 616. 'Serezia Rose'.

247585. No. 617. 'Ziza Capra'.

247586 to 247600. Originally from Astrachann-Astrakhan, Union of Soviet Socialist Republics.

247586. No. 618. 'Noir de Hambourg'.

247587. No. 619. 'Wengerka'.

247588. No. 620. 'Dubowsky Schwars'.

247589. No. 621. 'Saflanewy'.

247590. No. 622. 'Hybride d'Astrachan'.

247591. No. 623. 'Precoce d'Astrachan'.

247592. No. 624. 'Noir d'Automne'.

247593. No. 627. 'Talstokoschy'.

247594. No. 628. 'Skeros Peliy'.

247595. No. 630. 'Blano d'Automne'.

247596. No. 631. 'Doigt de Demoisellea'.

247597. No. 632. 'Muscat d'Astrachan'.

247598. No. 633. 'Kesehmisch aus Indien'.

247599. No. 634. 'Tonkokory'

247600. No. 635. 'Talstokory'.

237601 to 247606. Originally from the Union of Soviet Socialist Republics.

247601. No. 636. 'Chaouch des Don'.

247602. No. 637A. Rond du Don', Don

247603. No. 637B. 'Rond du Don', Don.

247604. No. 638. 'Efremowsky'.

247605. No. 639. 'Melchowsky'.

247606. No. 640. 'Kossorotowsky'.

247607 to 247612. Originally from Don, Union of Soviet Socialist Republics.

247607. No. 642. 'Puchliskowsky Planc'.

247608. No. 643. 'Sibirkery'.

247609. No. 644. 'Sterinky'.

247610. No. 645. 'Zinliansky Weissi'.

247611. No. 646. 'Champagtschik'.

247612. No. 647. 'Muschketny'.

247613 to 247616. Originally from the Crimea, Union of Soviet Socialist Republics.

247613. No. 648. 'Setzlinge Dodreliabi'.

247614. No. 649. 'Setzlinge Dodreliabi'.

247615. No. 650. 'Setzlinge von Muscadelle'.

247616. No. 652. 'Setzlinge Schirad Ouli Weissi'.

247617 to 247637. Originall from Don, Union of Soviet Socialist Republics.

247617. No. 653. 'Boulany'.

247618. No. 654. 'Ungarisch'.

247619. No. 655. 'Scheludevy'.

247620. No. 656. 'Scheludevy'.

247621. No. 657. 'Kisilowy'.

247622. No. 658. 'Pletschistik'.

247623. No. 659. 'Moldawsky'.

247624. No. 660. 'Krasnostop'.

247625. No. 661. 'Cheschatisky'.

247626. No. 662. 'Zimliansky Schwarz'.

247627. No. 663. 'Solotowsky'.

247628. No. 664. 'Krestowsky'.

247629. No. 665. 'Konstantinowsky'.

247630. No. 666. 'Potschatoschny'.

247631. No. 667. 'Puchliakowsky Schwarz'.

247632. No. 672. 'Dlinnochwosty'.

247633. No. 673. 'Varuschkin'.

247634. No. 674. 'Sadowy'.

247635. No. 675. 'Leanoy'.

247636. No. 676. 'Alenky'.

247637. No. 677. 'Sinenky'.

247638. No. 678. 'Amlachy', Abkhazia, Union of Soviet Socialist Republics.

247639. No. 679. 'Dodreliabi'. Georgia, Union of Soviet Socialist Republics.

247640. No. 681. 'Tawkvorn Cartalinsky', Georgia, Union of Soviet Socialist Republics.

247641. No. 682. 'Gybride Diamante', Crimea, Union of Soviet Socialist Republics.

247642. No. 683. 'Gybride Diamante', Crimea, Union of Soviet Socialist Republics.

247643. No. 685. 'Gybride Diamante', Crimea, Union of Soviet Socialist Republics.

247644. No. 686. 'Setzlinge Furminta', Crimea, Union of Soviet Socialist Republics.

247645. No. 687. 'Mardganni'. Originally from Grusien, Union of Soviet Socialist Republics.

247646. No. 688. 'Mzivani'.

247647. No. 689. 'Ukasitelli'.

247648 to 247652. Originally from Dagestan, Union of Soviet Socialist Republic.

247648. No. 691. 'Kaytagi'.

247649. No. 692. 'Agadai'.

247650. No. 695. 'Jaslik Isium'.

247651. No. 697. 'Himrisnky'.

247652. No. 698. Ag Isium'.

247653. No. 699. 'Alwan'. Originally from Azerbaijan, Union of Soviet Socialist Republics.

247654. No. 700. 'Narma'. Originally from Dagestan, Union of Soviet Socialist Republics.

247655. No. 701. 'Rich Baba Rose'. Originally from Dagestan, Union of Soviet Socialist Republics.

247656. No. 702. 'Chajtli'. Originally from Azerbaijan, Union of Soviet Socialist Republics.

247657 to 247662. Originally from Armenia, Union of Soviet Socialist Republics.

247657. No. 706. 'Ambary'.

247658. No. 708. 'Ganziandy'.

247659. No. 710. 'Chiradzouli Weissi'.

247660. No. 711. 'Askiary Kischmisch'.

247661. No. 712. 'Korisa Kischmiscth'.

247662. No. 714. 'Kischmisch Marmorartig'.

247663. No. 715. 'Jolla Houssein Zibil'. Originally from Dagestan, Union of Soviet Socialist Republics.

247664 to 247670. Originally from Azerbaijan, Union of Soviet Socialist Republics.

247664. No. 716. 'Manala Chany'.

247665. No. 719. 'Nachschaby'.

247766. No. 720. 'Novrast'.

247667. No. 722. 'Rundweissi'.

247668. No. 725. 'Chardchi Weissi'.

247669. No. 726. 'Chasany'.

247670. No. 733. 'Houssein'.

247671 to 247750.

From the Belgian Congo. Seeds collected by L. O. Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch Crops Research Division, Beltsville, Md. Received April 28, 1958.

247671. CANAVALIA GLADIATA (Jacq.) DC. Fabaceae. **Swordbean.**

Col. No. 21294. Hills above Kayna. Elevation 5,500 feet. Vine climbing in shrubs.

247672. CANAVALIA GLADIATA (Jacq.) DC. **Swordbean.**

Col. No. 21297. Near Kayna. Vine; flowers large, purple; seeds blackish-brown.

247673. CROTALARIA ONONIOIDES var. PUBESCENS Wilczek. Fabaceae.

Col. No. 21272. About 20 km. east of Beni. Flowers reddish.

247674. CUCURBITA PEPO L. Cucurbitaceae. **Pumpkin.**

Col. No. 21140. Thirty km. north of Aba. Fruits to 20 cm. in diameter; flesh yellow, good.

247675. CYNODON DACTYLON (L.) Pers. Poaceae. **Bermudagrass.**

Col. No. 21225. Nioka Station, INEAC, Nioka.

247676. GLYCINE JAVANICA L. Fabaceae.

Col. No. 21154. Savanna 5 km. north of Aba. Vine.

247677. GLYCINE JAVANICA var. CLAESSENSII (DeWild.) Hauman

Col. No. 21210. Nioka Station, INEAC, Nioka.

247678 and 247679. GLYCINE MAX (L.) Merr. **Soybean.**

247678. Col. No. 21200. 'Herman'. Nioka Station, INEAS, Nioka.

247679. Col. No. 21201. 'Ototan'. Nioka Station, INEAC, Nioka.

247680. GLYCINE SCHLIEBENII Harms

Col. No. 21216. Nioka Station, INEAC, Nioka.

247681. LAGENARIA SICERARIA (Mol.) Standl. Cucurbitaceae. **Bottle gourd.**

Col. No. 21116. Magombo Station, INEAC, 30 km. north of Niangara. Vine; fruits round, to 20 cm. in diameter.

247682. LEUCAENA LEUCOCEPHALA (Lam.) deWit. Mimosaceae. **Leadtree.**

Col. No. 21127. Fifty-four km. west of Faradje. Shrub to two meters high.

247683. LEUCAENA (hybrid). **Leadtree.**

Col. No. 21087. (*L. leuocoephala* × *L. pulverulenta*). Bambesa Station, INEAC. Tree to eight meters high.

247684. PENNISETUM PURPUREUM SCHUM. Poaceae. **Napiergrass.**

Col. No. 21227. Nioka Station, INEAC, Nioka.

247685. PENNISETUM POLYSTACHYON (L.) Schult.

Col. No. 21112. Savanna 20 km. east of Niangara. Plant one meter high.

247686 to 247693. PHASEOLUS CALCARATUS Roxb. Fabaceae. **Rice bean.**

From Nioka Station, INEAC, Nioka.

247686. Col. No. 21191. No. 5.
247687. Col. No. 21192. No. D60.
247688. Col. No. 21193. 'Blanc'.
247689. Col. No. 21194. 'Rouge'.
247690. Col. No. 21195.
247691. Col. No. 21196. 'Gandajika'.
247692. Col. No. 21197.
247693. Col. No. 21199.

247694 to 247720. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**

247694 to 247702. African Market in Aru.

247694. Col. No. 21157–A.
247695. Col. No. 21157–B.
247696. Col. No. 21157–C.
247697. Col. No. 21157–D.
247698. Col. No. 21157–E.
247699. Col. No. 21158–A.
247700. Col. No. 21158–B.
247701. Col. No. 21158–C.
247702. Col. No. 21158–D.

247703 to 247705. Native market near Nioka.

247703. Col. No. 21205–A.
247704. Col. No. 21205–B.
247705. Col. No. 21205–C.

247706 to 247720. Fifteen km. north of Goma.

247706. Col. No. 21329–A.
247707. Col. No. 21329–B.
247708. Col. No. 21329–C.
247709. Col. No. 21329–D.
247710. Col. No. 21330–A.
244711. Col. No. 21330–B.
247712. Col. No. 21330–C.
247713. Col. No. 21330–D.
247714. Col. No. 21331–A.
247715. Col. No. 21331–B.
244716. Col. No. 21331–C.
247717. Col. No. 21331–D.
247718. Col. No. 21331–E.
247719. Col. No. 21331–F.
247720. Col. No. 21331–G.

247721 and 247722. SORGHUM SUDANENSE (Piper) Stapf Poaceae. **Sudangrass.**

247721. Col. No. 21152. Near Kitambala, 60 km. south, southeast of Aba. Plant tall with open panicle.

247722. Col. No. 21228. Nioka Station, INEAC, Nioka.

247723. SORGHUM VERTICILLIFLORUM (Steud.) Stapf **Tabucki grass.**

Col. No. 21221. Nioka Station, INEAC, Nioka.

247724 to 247745. SORGHUM BICOLOR (L.) Moench

247724. Col. No. 21103. Fourteen km. north of Dungu. Plant two meters high. Inflorescence short. Plant shows no disease.

247725. Col. No. 21134. Twenty-five km. west of Faradje. Plant to two meters high; heads small.

247726. Col. No. 21155. African market at Aru. Market speciman.

247727 to 247745. From Nioka Station, INEAC, Nioka.

247727. Col. No. 21173. 'Aolo'. Logo-Mahagi.

247728. Col. No. 21174. 'Libi'. Libi.

247729. Col. No. 21175. 'Nkankama'. Gandajika.

247730. Col. No. 21176. 'Rudasakwa'. Rubona.

247731. Col. No. 21177. 'Vebe IV'. Ambaki.

247732. Col. No. 21178. 'Zabi'. Zabi-Nioka.

247733. Col. No. 21179. 'Ngiramugufu'. Kiyaka.

247734. Col. No. 21180. 'Onierma'. Sel. Nioka.

247735. Col. No. 21181. 'Aolo' (Logo). Sel. Nioka.

247736. Col. No. 21182. 'Aolo' (Logo). Sel. Nioka.

247737. Col. No. 21183. 'Aolo' (Logo). Sel. Nioka.

247738. Col. No. 21184. 'Dra' (Ambaki). Sel. Nioka.

247739. Col. No. 21185.

247740. Col. No. 21186. 'Aolo'. Logo.

247741. Col. No. 21187. 'Aolo'. Logo.

247742. Col. No. 21188. 'Rudasakwa'. Rubona.

247743. Col. No. 21189. 'Cinz Loyec'.

247744. Col. No. 21190. 'U. g. 6. 7.'. Kwakwada.

247745. Col. No. 21215. 'Tjolotjo'. Ybi.

247746. SORGHUM sp.

Col. No. 21213. Nioka Station, INEAC, Nioka. Origin: Niarembe.

247747. SORGHUM sp.

Col. No. 21220. Nioka Station, INEAC, Nioka. Originally from France.

247748. SORGHUM sp.

Col. No. 21218. Nioka Station, INEAC, Nioka. Originally from Kenya.

247749. THEMEDA TRIANDRA Forsk. Poaceae. **Rooi grass.**

Col. No. 21226. Nioka Station, INEAC, Nioka.

247750. ZEA MAYS L. Poaceae. **Corn.**

Col. No. 21156. Market speciman.

247751. CITRUS SINENSIS (L.) Osbeck Rutaceae. **Sweet orange.**

From Sicily. Budsticks persented by the Fruit Experiment Station, Acireale. Received Apr. 28, 1958.

'Clementine Monreal'. A sport, previously from Boufarik, Algeria. A selection more productive than the standard strains; fruits seedier than average.

247752. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

From France. Seeds presented by A. Rousset & Fils, Paris. Received Apr. 29, 1958.

'Socheville'.

247753. DIOSCOREA FLORIBUNDA Mart. & Gal. Dioscoreaceae. **Yam.**

From Cuba. Tubers and plants presented by Justo Hidalgo, Havana. Received Apr. 29, 1958.

247754 to 247765.

From Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Apr. 29, 1958.

247754. HIBISCUS ESCULENTUS L. Malvaceae. **Okra.**

Col. No. 21144. Savanna area about 30 km. north of Aba.

247755. ASPARAGUS AFRICANUS Lam. Convallariaceae.

Col. No. 21008. Kisantu Botanical Garden, Kisantu. Vine growing on support; ripe fruits dull orange color.

247756 to 247759. CAJANUS CAJAN (L.) Druce Fabaceae. **Pigeonpea.**

247756. Col. No. 21125. One km. east of Faradje.

247757. Col. No. 21284. Native garden, five km. south of Beni.

247758. Col. No. 21148. Dry savanna area, 10 km. north of Aba.

247759. Col. No. 21248. East of Bunia.

247760. BENINCASA HISPIDA (Thumb.) Cogn. Cucurbitaceae. **Waxgourd.**

Col. No. 21287. In mountain forest about 25 km. south of Lubero. Vine in trees; fruits to 15 cm. long and four cm. in diameter; orange to reddish when mature.

247761. ELEUSINE CORACANA (L.) Gaertn. Poaceae. **Ragi.**

Col. No. 21161. African market, Aba.

247762. LUFFA CYLINDRICA (L.) Roemer Curcurbitaceae. **Suakwa towelgourd.**

Col. No. 21119. In grass along river, Bungu.

247763 to 247765. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**

African market near Nioka.

247763. Col. No. 21204–A.

247764. Col. No. 21204–B.

247765. Col. No. 21204–C.

247766 and 247767.

From South West Africa. Plants collected by Louis Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 5, 1958.

247766. ANACAMPSEROS sp. Portulacaceae.

Col. No. 21600. Twenty miles east, southeast of Usaxos. Plants small; corms large; leaves silvery-white.

247767. (Undetermined.)

Col. No. 21588. Dry rocky hills about 10 miles south of Windhoek. Elevation 5,600 feet.

247768. CATHA EDULIS Forsk. Celastraceae. **Kat.**

From Ethiopia. Seeds presented by the United States Operations Mission, Coffee Production Board, Addis Ababa. Received May 8, 1958.

Evergreen shrub native to Arabia. The dried leaves are sometimes used as a substitute for tea by the natives. A mild intoxication of long duration often follows the use of 'khat' leaves.

247769 to 247787.

From Great Britain. Plants presented by Goeffrey Hayes Ltd., Grasmere, Westmoreland, England. Received May 5, 1958.

247769. COTONEASTER CONGESTA Baker Malaceae.

Plant dwarf, congested habit; leaves oval to obovate, 0.5 inch long; flowers 0.25 inch wide, pinkish; fruit globose, red, 0.25 inch wide. Native to the Himalayas.

247770 and 247771. CRYPTOMERIA JAPONICA (L. f.) D. Don Pinaceae. **Common cryptomeria.**

247770. 'Globosa'. Slow growing, compact, roundish bush to eight feet high.

247771. 'Jindai-Sugi'.

247772 and 247773. CHAMAECYPARIS LAWSONIANA (Murray) Parl. Pinaceae. **Lawson falsecypress.**

247772. 'Ellwoodii'. Slow growing, compact, conical bush; branchlets recurving; leaves longer, thinner, more glaucous than 'Fletcheri'.

247773. 'Glauca Spek'. Plant vigorous; leaves glaucous.

247774. CUPRESSUS MACROCARPA Hartw. Pinaceae. **Monterey cypress.**

'Lutea'. Plant very vigorous; leaves golden.

247775 to 247778. CHAMAECYPARIS PISIFERA (Seib. & Zucc.) Endl. Pinaceae. **Sawara retinospora.**

247775. 'Aregentea Pygmaea'. Plant slow growing; foliage silvery.

247776. 'Compressa'. Plant dwarf and compact; foliage golden color.

247777. 'Nana Aurea'. A slow growing, dwarf shrub; foliage golden-green ostrich-plume.

247778. 'Nana'. Similar to 247776.

247779. CHAMAECYPARIS LAWSONIANA (Murray) Parl. **Lawson falsecypress.**

'Forsteckiana Glauca'. Wide-spreading bush of regular outline without a distinct leading shoot.

247780. CHAMAECYPARIS OBTUSA (Sieb. & Zucc.) Endl. **Hinoki falsecypress.**

'Lanei Aurea'.

247781. CHAMAECYPARIS PISIFERA (Sieb. & Zucc.) Endl. **Sawara retinospora.**

'Squarrosa Nana Aurea'. Dense bush: juvenile leaves glaucous, very soft, in pairs or whorls of fours.

247782. HYPERICUM PATULUM Thunb. Hypericaceae. **St.-Johns-wort.**

'Hidcote'. Hardy variety; flowers large, flat, deep golden-yellow.

247783. JUNIPERUS COMMUNIS L. Pinaceae. **Common juniper.**

'Repandens'.

247784. JUNIPERUS HORIZONTALIS Moench **Creeping juniper.**

'Compacta'.

247785. JUNIPERUS CHINENSIS L. **Chinese juniper.**

'Blannin'.

247786. JUNIPERUS SQUAMATA var. FARGESII Rehd. & Wils.

Plant upright, slow growing; leaves silvery above.

247787. THUJA PLICATA D. Don Pinaceae. **Giant arborvitae.**

'Zebrina'. Leaves barred with distinct green and silver markings.

247788 to 247791. MEDICAGO SATIVA L. Fabaceae. Alfalfa.

From Peru. Seeds presented by A. F. Swanson, Hays, Kansas. Received May 6, 1958.

247788. 'Macate. Extensively grown in the higher altitudes of Peru, generally pastured rather than cut for hay; sometimes called a winter alfalfa; stems fine, leafy.

247789. 'Moche'. Similar to 'Moncefu'.

247790. 'Moncefu'. Known as 'Hairy Peruvian'. Plants tall; stems coarse; scanty-leafed summer type. Grows rapidly and recovers quickly from cutting but will not live long.

247791. 'San Pedro'. 'Hairy Peruvian' type; one of the best in Peru. Grown extensively under irrigation along the arid coast.

247792 to 247796. LUPINUS LUTEUS L. Fabaceae.
European yellow-lupine.

From the Netherlands. Seeds presented by D. J. Van Der Have, Kapelle-Biezelinge, Rotterdam. Received May 6, 1958.

247792. 'Lupin Jorlupine'.

247793. 'Martini'.

247794. 'Nevin'.

247795. 'Palvo'.

247796. 'Weiko III'.

247797 to 247800.

From Finland. Plants presented by the Horticultural Research Institute, Piikkio. Received May 6, 1958.

247797. RUBUS sp. Rosaceae.

'Anelma'.

247798. RUBUS IDAEUS L. **European raspberry.**

'Asker'. A Norweigan variety.

247799 and 247800. RUBUS (hybrids).

247799. No. 2018/2. (*R. idaeus* × *R. arcticus*).

247800. No. 2075/15. (*R. idaeus* × *R. arcticus*).

247801 to 247803.

From Portugal. Plants presented by Alfredo Moreira da Silva & Filhos, Ltd., Porto. Received May 6, 1958.

247801. BANKSIA GRANDIS Willd. Proteaceae.

247802 and 247803. CUPRESSUS LUSITANICA Mill. Pinaceae.
Portuguese cypress.

247802. 'Pendula'.

247803. 'Donna Maria Mendia'.

247804 and 247805.

From the Belgian Congo. Scions and seeds collected by Louis O. Williams, agricultural explorer, New Corps Research Branch, Corps Research Division, Beltsville, Md. Received May 6, 1958.

247804. CITROPSIS LATIALATA (Wildem.) Swingle & M. Kellerman Rutaceae.

Col. No. 21615. Botanical Garden, Kisantu. Shrub to two meters high. (Scions).

247805. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

Col. No. 21621. Botanical Garden, Kisantu. Plant to 60 cm. high. (Seeds).

247806 to 247811.

From Africa. Seeds presented by Berkery, Inc., New York, N.Y. Received May 6, 1958.

247806 to 247808. CHLORIS GAYANA Kunth Poaceae. **Rhodesgrass.**

247806. 'Mbarara'.

247807. 'Nzoia'.

247808. 'Nzoia'.

247809 and 247810. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

247809. Seed black.

247810. 'Jupiter'. Seed small, black.

247811. SETARIA SPHACELATA (Schum.) Stapf & Hubb. ex M. B. Moss Poaceae. 'Nandi'. **Millet.**

247812. EUPHORBIA PULCHERRIMA Willd. Euphorbiaceae. **Common poinsettia.**

From Mexico. Seeds presented by Arthur Stockdale, Mexico City. Received May 6, 1958.

247813 to 247829.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 7, 1958.

Collected February and March, 1956.

247813 to 247815. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. **Sweetpotato.**

247813. Col. No. 21168. 'Director'. INEAC, Nioka. Originally from Kivu. Divided leaves, a primitive African type.

247814. Col. No. 21169. 'Takanaka'. INEAC, Nioka. Leaves much dissected.

247815. Col. No. 21258. Eighty km. north of Beni. Plant growing as a weed.

247816. IPOMOEA sp.

Col. No. 21114. Savanna near Niangara.

247817. IPOMOEA sp.

Col. No. 21118. Savanna 28 km. north of Niangara. Magombo Station, INEAC.

247818. IPOMOEA sp.

Col. No. 21126. Savanna near Gaugala.

247819. IPOMOEA sp.

Col. No. 21252. Forty-five km. northeast of Bunia.

247820. PACHYRHIZUS sp. Fabaceae.

Col. No. 21122. Twenty-five km. west of Faradje.

247821. PHASEOLUS CALCARATUS Roxb. Fabaceae. **Rice bean.**

Col. No. 21198. Nioka Station, INEAC.

247822 and 247823. PHASEOLUS LUNATUS L. **Lima Bean.**

247822. Col. No. 21150. Thirty km. north of Aba. Vine climbing on trees.

247823. Col. No. 21307. In lava fields 30 km. south of Rutshuru. Vine, looks like wild lima bean.

247824. PHYSALIS PERUVIANA L. Solanaceae. **Peruvian groundcherry.**

Col. No. 21207. 'Tambuac'. African market near Nioka. Fruits yellow-green, 15 mm. diameter, deep yellow inside; flavor good. Used commercially to make jam.

247825. PHYSALIS sp.

Col. No. 21232. Twenty five km. south of Lubero. Elevation 2,000 meters. Fruits resemble small tomatoes in size and taste, but are yellow at maturity and enclosed in papery bracts.

247826. PROTEA sp. Proteaceae.

Col. No. 21149. Closed savanna, 30 km. north of Aba. Tree to 3 meters high.

247827. PSOPHOCARPUS PALUSTRIS Desv. Fabaceae.

Col. No. 21098. Bambesa Station, INEAC.

247828. SOLANUM sp. Solanaceae.

Col. No. 21100. 'Nsua'. Twenty km. north of Niangara. Plant 15 to 30 cm. high; fruits red to 3 cm. in diameter.

247829. SOLANUM CAMPYLACANTHUM Hochst.

Col. No. 21254. Five km. south of Beni. Flowers blue; fruits yellow, 2 cm. in diameter, mucilaginous.

247830. PYRUS COMMUNIS L. Malaceae. Pear.

From Great Britain. Scions presented by the John Innes Horticultural Institute, Bayfordbury, Hertford, Hertz, England. Received May 8, 1958.

'Merton Pride' (4016). ('Glau Morceau' × 'Williams 4').

247831 to 247866.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 7, 1958.

Collected February and March 1958.

247831. ALYSICARPUS RUGOSUS (Willd.) DC. Fabaceae.

Col. No. 21270. Twenty kms. east of Beni.

247832. GLYCINE JAVANICA L. Fabaceae.

Col. No. 21203. 'Mia'. African market at Nioka.

247833 and 247834. DESMODIUM VELUTINUM (Willd.) DC. Fabaceae.

247833. Col. No. 21102. Dry savanna 25 kms. north of Dungu, Plant to 30 cm. high.

247834. Col. No. 21107. Savanna 65 kms. east of Niangara. Plant to 30 cm. high.

247835. DESMODIUM RAMOSISSIMUM G. Don.

Col. No. 21096. Savanna about 15 km. north of Dungu. Perennial to 25 cm. high.

247836. DESMODIUM sp.

Col. No. 21109. Edge of savanna, 100 km. west of Niangara. Plant to 30 cm. high.

247837. DESMODIUM sp.

Col. No. 21132. Savanna area, 25 km. west of Faradje. Plant to 2 meters high.

247838. DESMODIUM VELUTINUM (Willd.) DC.

Col. No. 21271. Gravel pit 20 km. east of Beni. Shrub to one meter high; seed pods abundant.

247839. DESMODIUM SALICIFOLIUM (Poir.) DC.

Col. No. 21274. Ten km. south of Beni. Elevation 1,200 meters. Plant to one meter high.

247840. DIGITARIA UNIGLUMIS (A. Rich.) Stapf. Poaceae.

Col. No. 21240. Near Kayna, Nord du Kivu. Bunch grass, but with spike to three meters high.

247841. ELEUSINE CORACANA (L.) Gaertn. Poaceae. Ragi.

Col. No. 21145. Planting area in savanna, 30 km. north of Aba.

247842. INDIGOFERA ARRECTA Hochst. Fabaceae. **Indigo.**

Col. No. 21167. Plot at INEAC Station, Nioka. Shrub to two meters high.

247843. INDIGOFERA EMARGINELLA Steud. **Indigo.**

Col. No. 21212. INEAC Station, Nioka.

247844. INDIGOFERA ERECTA Thunb. **Indigo.**

Col. No. 21153. Near Kitambala, about 60 km. south, southeast of Aba. Shrub to two meters high.

247845. INDIGOFERA HIRSUTA L. **Hairy indigo.**

Col. No. 21131. Dry roadside in savanna, 10 km. west of Faradje.

247846. INDIGOFERA POLYSPHAERA Baker.

Col. No. 21108. Dry savanna near Magombo Station, INEAC, 28 km. north of Niangara. Shrub to 30 cm. high; withstands dry season.

247847. INDIGOFERA ENDECAPHYLLA Jacq. **Creeping indigo.**

Col. No. 21081. Yangambi Station, INEAC. Plant prostrate; flowers mauve.

247848. INDIGOFERA ENDECAPHYLLA Jacq. **Creeping indigo.**

Col. No. 21082. Bambesa station, INEAC. Withstands dry season.

247849. INDIGOFERA ARRECTA Hochst.

Col. No. 21273. In savanna, 15 kms. south of Beni. Shurb to 1 meter high.

247850 and 247851. MOGHANIA RHODOCARPA (Baker) Hauman Fabaceae.

247850. Col. No. 21088. Bambesa station, INEAC. Plant to 4 meters high; used as green manure and as shade in coffee plantation.

247851. Col. No. 21223. Nioka Station, INEAC.

247852. RHYNCHOSIA sp. Fabaceae.

Col. No. 21164. Nioka Station, INEAC. Vine growing over trellises.

247853 to 247855. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

247853. Col. No. 21135. Field 5 km. north of Aba.

247854. Col. No. 21142. Field 30 km. north of Aba.

247855. Col. No. 21159. African market in Arua. Seeds small.

247856. SESBANIA PACHYCARPA DC. Fabaceae.

Col. No. 21091. Bambesa Station, INEAC. Used as pasturage.

247857. SESBANIA SESBAN (L.) Merr.

Col. No. 21092. Bambesa Station, INEAC. Used as pasturage and green manure.

247858. SIDA sp. Malvaceae.

Col. No. 21105. Dry savanna near Niangara. Plant to 30 cm. high; flowers yellow.

247859. SIDA sp.

Col. No. 21327. Twenty-five kms. south of Rushuru. Elevation 1,800 meters. Plant to 3 meters high; flowers mauve.

247860 and 247861. SORGHUM BICOLOR (L.) Moench Poaceae.

247860. Col. No. 21172. Nioka Station, INEAC. Heads compact, 10 by 5 cm.; seeds small, red.

247861. Col. No. 21231. Nioka Station, INEAC.

247862. STIZOLOBIUM sp. Fabaceae.

Col. No. 21089. Bambesa Station, INEAC. Plant to one meter high; used as green manure and for ground cover.

247863. STIZOLOBIUM sp.

Col. No. 21093. Bambesa Station, INEAC.

247864. STYLOSANTHES ERECTA Beauv. Fabaceae.

Col. No. 21217. Nioka Station, INEAC.

247865. TRIFOLIUM USAMBARENSE Taub. Fabaceae.

Col. No. 21308. Lava field 30 km. south of Rutshuru. Elevation 1,600 meters.

247866. VIGNA sp. Fabaceae.

Col. No. 21094. Bambesa Station, INEAC.

247867 and 247868. TRIFOLIUM SQUARROSUM L. Fabaceae. **Clover.**

From Italy. Seeds presented by the Instituto di Agronomia Generale, della Universita di Pisa, Pisa. Received May 6, 1958.

247867. Type A.

247868. Type B.

247869. PINUS SYLVESTRIS L. Pinaceae. **Scotch pine.**

From Greece. Seeds presented by the Agricultural Attache, United States Embassy, Athens, Greece. Received May 9, 1958.

247870. CITRUS MACROPTERA Montrous Rutaceae.

From New Caledonia. Budsticks presented by F. Felix Demene, Noumea. Received May 9, 1958.

Serres districts, Laila, Eastern Macedonia. Elevation 3,800 feet.

247871 to 247878. ORYZA SATIVA L. Poaceae. **Rice.**

From Pakistan. Seeds presented by the Agricultural Research Service, Dokri. Received May 9, 1958.

247871. 'Bengalo'.

247872. 'Jajai–77'.

247873. 'Kangani–27'.

247874. 'Kangai' × 'Torh'. (16–1–28).

247875. 'Palman Suffaid'.

247876. 'Sada Culab'.

247877. 'Silver Jubilee'.

247878. 'Sonahafi'.

247879 to 247891. ORYZA SATIVA L. Poaceae. **Rice.**

From India. Seeds presented by the Punjab Agricultural College, Lyallpur. Received May 9, 1958.

247879. '278 Sathra'. (very early).

247880. NC 7/37. (very early).

247881. '160 Johna' (early).

247882. '349 Johna' (early).

247883. '346 Mahlar'.

247884. '46 Palman'.

247885. '246 Palman'.

247886. C 5–17.

247887. S 12 D.Z.K.

247888. '28 Toga'. (medium).

247889. 'H 117 Bara'. (late).

247890. '370 Basmati'.

247891. '41 Mushkan'.

247892 and 247893.

From Peru. Tubers presented by D. V. Applegate, Ferriday, Louisiana. Received May 8, 1958.

247892. SOLANUM sp. Solanaceae.

Collected in an Indian market north of Lima. Tuber purplish-pink; flesh yellow. Cultivated around Arequipa, Peru, and Cochabamba, Bolivia.

247893. CYCLANTHERA PEDATA (L.) Schrad. Cucurbitaceae.

'Archojas'.

247894. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

From the Union of Soviet Socialist Republics. Seeds presented by the United States Embassy, Moscow. Received June 12, 1958.

247895. GUILIELMA sp. Phoenicaceae.

From Ecuador. Seeds collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 12, 1958.

No. 89. 'Chontilla'. Near Pichilingu. Collected May 1, 1958.
Small fruits, with thin pericarp; source of a cooking oil.

247896 and 247897.

From the Territory of Papua and New Guinea. Seeds presented by the Department of Forests. Received June 12, 1958.

247896. CASUARINA sp. Casuarinaceae.

247897. CASUARINA PAPUANA S. Moore

247898. LOTUS TENUIS Waldst. & Kit. Fabaceae. **Trefoil.**

From Greece. Seeds presented by the Agricultural Attache, United States Embassy, Athens. Received June 13, 1958.

Formerly from Louis Saint-Teannet and Company, France. Plants hardy, almost prostrate, make good spring and fall recovery after cutting; stems numerous, light green; flowers reddish-orange. Collected October 25, 1955.

247899. SESAMUM sp. Pedaliaceae.

From Angola. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 13, 1958.

Col. No. 21478. Indehiscent capsule.

247900. NICOTIANA FRAGRANS Hook. Solanaceae. **Tobacco.**

From New Caledonia. Seeds presented by the South Pacific Commission, Noumea. Received June 17, 1958.

Typical form collected at Tadine, Mare Island, Loyalty Group, in May, 1958.

247901 to 247905.

From Australia. Seeds presented by George W. Althofer, Dripstone, New South Wales. Received May 13, 1958.

247901. EUCALYPTUS ERYTHRONEMA Turcz. Myrtaceae.

'Mallee'. Red variety.

247902. EUCALYPTUS GROSSA F. Muell.

'Mallee'.

247903. EUCALYPTUS TORQUATA Luehm.

'Brilliants'. Shrubby type.

247904. EUCALYPTUS TORQUATA Luehm.

'Pendula'.

247905. EUCALYPTUS sp.

247906. CAYAPONIA sp. Cucurbitaceae.

From Mexico. Seeds collected by Bernice G. Schubert, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 14, 1958.

Col. No. 1602. Two km. from Hucnucma, along roadside toward Sisal, Yucatan. Vine with green fruits turning orange; seeds small, black.

247907 to 247922. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Peru. Seeds presented by the Ministry of Agriculture, Lima. Received May 14, 1958.

247907. 'Andes 55'.
247908. 'Bonza'.
247909. 'Candealfen'.
247910. 'Fiorello'.
247911. 'Freccia'.
247912. 'Hatif Watines'.
247913. 'Kenyafen'.
247914. 'Maipofen'.
247915. 'Mara'.
247916. 'Marchetti'.
247917. 'Menflo'.
247918. 'Stripe'.
247919. 'Thiosaueva'.
247920. 'Titano'.
247921. 'Torrenova'.
247922. 'Vilufen'.

247923 to 247926. HORDEUM VULGARE L. Poaceae. **Common barley.**

From Canada. Seeds presented by the Department of Agriculture, Ottawa, Ontario. Received May 14, 1958.

247923. 'Minerva'.
247924. 'Rivale'.
247925. 'Shaddock'.
247926. 'Slovak'.

247927 and 247928. HORDEUM VULGARE L. Poaceae. **Common barley.**

From Cyprus. Seeds collected by G. A. Wiebe, Cereal Crops Research Branch, Plant Industry Station, Beltsville, Md., in Nicosia, in 1955. Numbered May 14, 1958.

247927. Six row type.
247928. Fixed intermediate.

247929 to 247943. AVENA SATIVA L. Poaceae. **Common oats.**

From Brazil. Seeds presented by the Estacao Experimenta da Frontience, Bage, Received May 15, 1958.

247929. 'Ascencao'.
247930. 'Atlas 14535'.
247931. 'Bage 4446–39'.
247932. 'Bage'.
247933. 'Castanha'.
247934. 'D.L.M. 3'.
247935. 'Don Pedrito'.
247936. 'Klein Mar'.
247937. 'Klein Va'.
247938. 'Marion'.
247939. 'Marion (b) 100'.
247940. 'Urugland'.
247941. No. B–000.
247942. No. 7214–43.
247943. No. 9551–43.

247944 to 247955. ORYZA SATIVA L. Poaceae. **Rice.**

From Costa Rica. Seeds presented by the Inter-American Institute of Agricultural Sciences, Turrialba. Received May 15, 1958.

247944. 'Canairo'.
247945. 'Cateto Branco'.

247946. 'Catibao Dourado'.

247947. 'Catito Dourado'.

247948. 'Dourado Agullia'.

247949. 'Dourado Agullia' X 'Dourado Pelundo'.

247950. 'Iguape Agulha'.

247951. 'Jaguari' X 'Iola'.

247952. 'Kretk' (Dutch Guiana).

247953. 'Pretao'.

247954. 'Secano'.

247955. 'Skriviman Kotti' (Dutch Guiana).

247956. ORYZA SATIVA L. Poaceae. **Rice.**

From Cuba. Seeds presented by W. C. Davis, Arrozal, Bartes, S.A., Jobabo. Received May 15, 1958.

'Cuba 65'.

247957. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

From Finland. Seeds presented by the Director of Pahjois Pohjanmaan, Rovaniemi. Received May 16, 1958.

'Kiva'. Seeds held at the Regional Plant Introduction Station, Experiment, Ga.

247958. GUADUA ANGUSTIFOLIA Kunth Poaceae. **Bamboo.**

From Ecuador. Plants presented by the Estacion Experimental Tropical, Pichilingue, Guayaquil. Received May 16, 1958.

247959 to 248145.

From Brazil unless otherwise noted. Collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md.

247959 to 247996. Received May 19, 1958.

Collected at Riberao do Campo, Corupa, State of Santa Catharina, as plants, except where otherwise noted.

247959. AECHMEA CALYCULATA (Morren) Baker. Bromeliaceae.

Col. No. 18885. Elevation 500 meters. Epiphyte in dense virgin forest.

247960. HIPPEASTRUM PSITTACINUM (Ker.) Herb. Amaryllidaceae.

Col. No. 18909. Elevation 700 meters. Plant frequent on trees and ground, in moderate shade; flowers light to dark red. (Bulbs.)

247961. ANTHURIUM LACEIDAE Reitz. Araceae.

Col. No. 18841. Elevation 500 meters.

247962. ANTHURIUM HARRISII (Graham) Endl.

Col. No. 18870. Rio Paulo. Elevation 700 meters. Epiphyte; leaves dark green.

247963. BEGONIA sp. Begoniaceae.

Col. No. 18895. Elevation 500 meters.

247964. BEGONIA sp.

Col. No. 18896. Elevation 400 meters. Plant to four feet high.

247965. BEGONIA sp.

Col. No. 18898. Elevation 400 meters. In open land on hill slopes.

247966. CANISTRUM LINDENI var. ROSEUM (Morren) L. B. Smith Bromeliaceae.

Col. No. 18921. Elevation 500 meters. Large epiphyte in deep shade.

247967. CORYTHOLOMA BULBOSUM (Ker) Voss Gesneriaceae.

Col. No. 18928. 'Rainha do Alismo'. Elevation 65 meters. Among rocks at 900 meters elevation. Leaves pubescent; flowers red. (Bulb.)

247968. DICHORISANDRA sp. Commelinaceae.

Col. No. 18911. Elevation 600 meters. Shrub to four feet high in dense forest; leaves with whitish streaks.

247969. EPIDENDRUM sp. Orchidaceae.

Col. No. 18872. Rio Paulo. Elevation 700 meters. Epiphyte in virgin forest.

247970. EPIDENDRUM FRAGRANS Sw. Orchidaceae. **Orchid.**

Col. No. 18920. Elevation 700 meters. Epiphyte in dense forest; flowers white to pale green.

247971. HEDYCHIUM COCCINEUM Buch.-Ham. Zingiberaceae. **Gingerlily.**

Col. No. 18901. Elevation 70 meters. Common in marshes; flowers white.

247972. HELICONIA BIHAI L. Musaceae.

Col. No. 18849. Plant 15 feet high.

247973. HUNTLEYA MELEGRIS Lindl. Orchidaceae.

Col. No. 18874. 'Estrelha da Republica'. Elevation 700 meters. Epiphyte in dense virgin forest; flowers starshaped.

247974. JUSTICIA MAGNIFICA Pohl Acanthaceae.

Col. No. 18894. Elevation 500 meters. Plant to five feet high; flowers reddish-pink.

247975. JUSTICIA sp.

Col. No. 18908. Elevation 600 meters. Shrub five feet high; flowers deep pink.

247976. LYCOPODIUM sp. Lycopodiaceae.

Col. No. 18866. Rio Paulo. Elevation 500 meters. Epiphyte in rain forest.

247977. MUSA × PARADISIACA L. Musaceae. **Common banana.**

Col. No. 18837. 'Bananeira'. (*M. acuminata* × *M. balbisiana*). Plant to 15 feet high; flowers violet.

247978. NIDULARIUM INNOCENTII Lem. Bromeliaceae.

Col. No. 18912. Elevation 600 meters. Epiphyte in dense, high forest.

247979. ONCIDIUM VARICOSUM Lindl. Orchidaceae. **Orchid.**

Col. No. 18850. Fairly frequent in forest.

247980. ONCIDIUM sp.

Col. No. 18876. Elevation 700 meters. Epiphyte in virgin forest.

247981. PHILODENDRON BIPINNATIFIDUM Schott. Araceae.

Col. No. 18923. Elevation 65 meters. Epiphyte in dense virgin forest.

247982. RHIPSALIS sp. Cactaceae.

Col. No. 18900. Elevation 400 meters.

247983. SCINDAPSUS sp. Araceae.

Col. No. 18843. Elevation 500 meters. Climber with large leaves.

247984. PHYLLITIS SCOLOPENDRIUM Newman Polypodiaceae.

Col. No. 18904. Elevation 600 meters. Epiphyte in dense forest.

247985. SELAGINELLA sp. Selaginellaceae.

Col. No. 18905. Elevation 600 meters. Streamside rocks in forest.

247986. SOBRALIA sp. Orchidaceae.

Col. No. 18899. Elevation 400 meters. Plant to 1.6 meters high; leaves dark green; flowers yellow.

247987. TILLANDSIA GARDNERII Lindl. Bromeliaceae.

Col. No. 18926. Elevation 65 meters. Epiphyte. An interesting *Tillandsia.*

247988. VRIESIA CARINATA Wawara Bromeliaceae.

Col. No. 18869. Elevation 700 meters. Epiphyte in rain forest.

247989. VRIESIA PLATYNEMA Gaud.

Col. No. 18924. Epiphyte in dense, high forest.

247990. VRIESIA RODIGASIANA E. Morr.

Col. No. 18925. Elevation 500 meters. Epiphyte in dense high forest.

247991. VRIESIA sp.

Col. No. 18865. Rio Paulo. Elevation 400 meters. Rain forest.

247992. (Undetermined.)

Col. No. 18887. Elevation 400 meters. Herbaceous plant to 30 cm high; flowers small, white.

247993. (Undetermined.)

Col. No. 18890. Elevation 500 meters. Petals white inside and red at tip.

247994. (Undetermined.)

Col. No. 18891. Elevation 63 meters. Terrestrial; leaves dark green with deeper green margins.

247995. HYPOCYRTA sp. Gesneriaceae.

Col. No. 18897. Elevation 400 meters. Plant 1.7 meters high.

247996. (Undetermined.)

Col. No. 18906. Elevation 500 meters. Epiphyte in dense, virgin forest.

247997 to 248010. Collected April 14 to 18, 1958. Received May 19, 1958.

247997. BEGONIA sp. Begoniaceae.

Col. No. 18815. Base of Serra do Mar, Cuatro Barras, Parana. Elevation 950 meters. Plants to 2 meters high; leaves deep green above, reddish beneath; inflorescence reddish-pink.

247998. HOLOCALYX sp. Caesalpiniaceae.

Col. No. 18706. 'Pan Alecrim'. Horto Florestal, Cantareira, Sao Paulo. Tree medium size; flowers white.

247999. JACARANDA ACUTIFOLIA Humb. & Bonpl. Bignoniaceae.

Col. No. 18715. Horto Florestal, Cantareira, Sao Paulo. Tree medium size; flowers purplish-blue, fragrant at times.

248000. MYRCIARIA JABOTICABA (Vell.) Berg. Myrtaceae.

Col. No. 18930. 'Jaboticaba'. Corupa, Santa Catharina. Elevation 65 meters. Tree to 4.5 meters high; foliage dark green.

248001. PHILODENDRON IMBE Schott Araceae.

Col. No. 18833. 'Imba'. Campaninas, foothills of Serra do Mar, Parana. Epiphyte on dry, fallen, tree trunk.

248002. PODOCARPUS LAMBERTII Klotzsch Taxaceae.

Col. No. 18961. Tainhas, Serra Gerat, Rio Grande do Sul. Elevation 1,000 meters. Tree to 14 meters high.

248003. STERCULIA CHICHA St. Hil. Sterculiaceae.

Col. No. 18709. 'Chicha' or 'Xixa'. Horto Florestal, Cantareira, Sao Paulo. Tree to 15 meters high; leaves large with fruits about the size of an orange.

248004. TABEBUIA CHRYSOTRICHA Nicholson Bignoniaceae.

Col. No. 18703. 'Ipe Amarelho'. Horto Florestal, Cantareira, Sao Paulo. Tree medium size; flowers in yellow clusters.

248005. TIBOUCHINA GRANULOSA (Desr.) Cogn. Melastomataceae.

Col. No. 18716. 'Quaresmeira Roxa'. Horto Florestall, Cantareira, Sao Paulo. Tree to 12 meters high; flowers in deep purplish clusters.

248006. TIPUANA TIPU (Benth.) Kuntze Fabaceae. **Tipu-tree.**

Col. No. 18711. 'Tipuana'. Horto Florestal, Cantareira, Sao Paulo. Wide-spreading tree to 14 meters high; flowers yellow.

248007. VRIESIA sp. Bromeliaceae.

Col. No. 18962. Tres Farquilhas, Rio Grande do Sul. Elevation 500 meters. Epiphyte in rain forest.

248008. VRIESIA sp.

Col. No. 18963. Tres Farquilhas, north of Porto Alegre, Rio Grande do Sul. Elevation 500 meters. Large epiphyte in high, dense forest.

248009. VRIESIA sp.

Col. No. 18964. Porto Alegre, Rio Grande do Sul. Elevation 20 meters. Epiphytic and terrestrial; leaves pink at tip.

248010. PITTOSPORUM UNDULATUM Vent. Pittosporaceae.
Orange pittosporum.

Col. 18707. 'Pan Incenso'. Horto Florestal, Cantareira, Sao Paulo. Ornamental tree to 12 meters high; flowers white, flagrant.

248011 to 248030. Received May 19, 1958.

248011. AECHMEA sp. Bromeliaceae.

Col. No. 18735. Summit of Serra Sao Luiz. Elevation 1,100 meters.

248012. HIPPEASTRUM VITTATUM (L'Her.) Herb. Amaryllidaceae

Col. No. 18799. Piraquara, Serra do Mar, Parana. Elevation 950 meters. Plant among rocks in moderate shade, handsome ornamental; flowers large, blood-red.

248013. ANTHURIUM ACUTUM N. E. Br. Araceae.

Col. No. 18903. Riberao do Rancho, Corupa, Santa Catharina. Elevation 600 meters. Epiphyte in dense virgin forest.

248014. BEGONIA sp. Begoniaceae.

Col. No. 18816. Cuatro Barros, Serra do Mar, Parana. Elevation 950 meters. Plants to 1 meter high; flowers white.

248015. BEGONIA sp.

Col. No. 18817. Cuatro Barros, Serra do Mar, Parana. Elevation 950 meters. Plants about 1 meter high, wide-spreading; leaves rather large, deep green above, rusty brown beneath; flowers pale pink.

248016. BEGONIA sp.

Col. No. 18818. Cuatro Barros, Serra do Mar, Parana. Elevation 950 meters. Plant about 1 meter high; inflorescence pink.

248017. BILLBERGIA SPECIOSA Thunb. Bromeliaceae.

Col. No. 18880. Riberao do Rancho, Corupa, Santa Catharina. Elevation 700 meters. Epiphyte in dense, virgin forest; flowers deep pink.

248018. BILLBERGIA sp.

Col. No. 1882. Riberao do Rancho, Corupa, State of Santa Catharina. Elevation 700 meters. Epiphyte in dense, virgin forest.

248019. CTENANTHE MUELLERI Peters. Marantaceae.

Col. No. 18940. Fazenda do Arayo, Osario, Rio Grande do Sul. Elevation 10 meters. In swamp forest. Flowers white to yellowish.

248020. DICKSONIA SELLOWIANA Hook. Pteridaceae.

Col. No. 18975. 'Xaxim' or 'Xaxi'. Boca da Serra, near summit of eastern ruin of Serra Geral, Rio Grande do Sul. Elevation 900 meters. Tree fern; trunk to 3 meters high.

248021. EPIDENDRUM ELLIPTICUM Sesse & Moc. Orchidaceae. **Orchid.**

Col. No. 18730. Slopes of Serra Sao Luiz, Parana. Elevation 1,050 meters. Terrestrial orchid, about 25 cm. high; flowers pink.

248022. EUTERPE EDULIS Mart. Phoenicaceae. **Para palm.**

Col. No. 18942. 'Palmito'. Fazenda do Arayo, Osario, Rio Grande do Sul. Elevation 5 meters. Slender palm about 8 meters high; in swampy forest; young leaf shoots cooked and used for salad.

248023. GEONOMA SCHOTTIANA Mart. Phoenicaceae. **Palm.**

Col. No. 18935. 'Uricana'. Fazenda do Arrayo, Rio Grande do Sul. Elevation 10 meters. Palm to 5 meters high; fruits ornamental.

248024. PHILODENDRON sp. Araceae.

Col. No. 18916. 'Imbe'. Riberao do Rancho, Santa Catharina. Elevation 600 meters. Epiphyte common in high, dense forest.

248025. PHILODENDRON SELLOUM C. Koch

Col. No. 18948. 'Guaimbe'. Fazenda do Arrayo, Rio Grande do Sul. Elevation 10 meters.

248026. QUESNELIA IMBRICATA L. B. Smith Bromeliaceae.

Col. No. 18720. Serra Sao Luiz, Parana. Elevation 7,500 meters. Ornamental growing in moderately deep shade; flowers light to deep pink.

248027. RHIPSALIS sp. Cactaceae.

Col. No. 18806. Piraquinna, Serra do Mar, Parana. Elevation 950 meters. Epiphyte on trunk of *Cedrela* sp.; fruits yellowish-pink.

248028. RHIPSALIS sp.

Col. No. 18864. Rio Paulo, Corupa, Santa Catharina. Elevation 300 meters. Epiphyte; common in crotches of trees in open.

248029. (Undetermined.)

Col. No. 18834. Piraquara, foothills of Serra do Mar, Parana. Elevation 950 meters. Aquatic in stagnant water.

248030. (Undetermined.)

Col. No. 18892. Corupa, Santa Catharina. Elevation 63 meters. Terrestial; flowers white.

248031 to 248057. Received May 19, 1958.

248031. AECHMEA sp. Bromeliaceae.

Col. No. 18886. Riberao do Rancho, Corupa, Santa Catharina. Elevation 400 meters. Epiphyte in dense, virgin forest.

248032. ANTHURIUM ACUTUM N. E. Br. Araceae.

Col. No. 18836. Corupa, Santa Catharina. Elevation 500 meters. Leaves dark green.

248033. ANTHURIUM sp.

Col. No. 18842. Corupa, Santa Catharina. Elevation 100 meters. In rain forest of Rio Paulo.

248034. BILLBERGIA sp. Bromeliaceae.

Col. No. 18907. Riberao do Rancho, Corupa, Santa Catharina. Elevation 600 meters. Epiphyte in dense, high forest.

248035. BILLBERGIA sp.

Col. No. 18913. Riberao do Rancho, Corupa, Catharina. Elevation 600 meters. Epiphyte in high forest.

248036. BILLBERGIA NUTANS H. Wendl.

Col. No. 18884. Riberao do Rancho, Corupa, Santa Catharina. Elevation 500 meters. Epiphyte near edge of stream.

248037. CASSIA BICAPSULARIS L. Caesalpiniaceae. **Senna.**

Col. No. 18702. 'Canuto de Pito'. Horto Florestal, Cantareira, Sao Paulo. Tree or shrub 5 meters high.

248038. CASSIA SPECIOSA Schrad. **Senna.**

Col. No. 18705. 'Manduirana'. Horto Florestal, Cantareira, Sao Paulo. Tree to 5.5 meters high; flowers yellow, in attractive cluster.

248039. CHORISIA SPECIOSA St. Hil. Bombacaceae. **Floss-silktree.**

Col. No. 18712. 'Panheira'. Horto Florestal, Cantareira, Sao Paulo. Fast growing tree to 18 meters high; crown round; flowers deep pink, becoming whitish with age.

248040. DICHORISANDRA THYRSIFLORA Mikan. Commelinaceae.

Col. No. 18922. Corupa, Santa Catharina. Elevation 65 meters in dense forest; leaves with grayish streaks.

248041. EPIDENDRUM sp. Orchidaceae.

Col. No. 18867. Rio Paulo, Corupa, Santa Catharina. Elevation 700 meters. Epiphyte in rain forest.

248042. HEDYCHIUM GARDNERIANUM Rosc. Zingiberaceae. **India gingerlily.**

Col. No. 18847. 'Lirio'. Corupa Santa Catharina. Leaves dark green; flowers white, wide-spreading.

248043. MONSTERA sp. Araceae.

Col. No. 18845. Corupa, Santa Catharina. Elevation 500 meters.

248044. ONCIDIUM sp. Orchidaceae.

Col. No. 18874. Rio Paulo, Corupa, Santa Catharina. Elevation 700 meters. In dense virgin forest.

248045. ONCIDIUM sp.

Col. No. 18878. Riberao do Rancho, Corupa, Santa Catharina. Elevation 700 meters. Epiphyte in dense, virgin forest; flowers yellow.

248046. PEPEROMIA sp. Piperaceae.

Col. No. 18889. Riberao do Rancho, Corupa, Santa Catharina. Elevation 500 meters. Attached to moist rocks.

248047. PHILODENDRON sp. Araceae.

Col. No. 18927. Corupa, Santa Catharina. Elevation 65 meters. Leaves dark green.

248048. PHILODENDRON sp.

Col. No. 18844. Corupa, Santa Catharina. In rain forest.

248049. PLEUROTHALLIS sp. Orchidaceae.

Col. No. 18914. Riberao do Rancho, Corupa, Santa Catharina. Elevation 600 meters. Terrestrial, in high, dense forest; leaves with greenish-gray markings.

248050. PLEUROTHALLIS sp.

Col. No. 18915. Riberao do Rancho, Corupa, Santa Catharina. Elevation 600 meters. Terrestrial in dense, high forest; leaves partly green, partly grayish.

248051. SPATHODEA CAMPANULATA Beauv. Bignoniaceae.

Col. No. 18713. Horto Florestal, Cantareira, Sao Paulo. Medium size tree; flowers deep red. Of African origin, but frequently found in Latin America.

248052. TABEBUIA VELLOSII Toledo. Bignoniaceae.

Col. No. 18704. 'Ipe Roxo'. Horto Florestal, Cantareira, Sao Paulo. Medium-sized to rather high tree.

248053. TIBOUCHINA MUTABILIS Cogn. Melastomataceae.

Col. No. 18714. 'Quaresmeira'. Horto Florestal, Cantareira, Sao Paulo. Tree to 10 meters high; flowers white at first, becoming lilac and finally magenta-colored.

248054. TIBOUCHINA sp.

Col. No. 18881. Riberao do Rancho, Corupa, Santa Catharina. Shrub or small tree to 3 meters high at edge of forest; flowers lilac colored.

248055. CAESALPINIA PELTOPHOROIDES Benth. Caesalpiniaceae.

Col. No. 18708. 'Sibipuruna'. Horto Florestal, Cantareira, Sao Paulo. Tree to 13 meters high; flowers small, yellow, in clusters.

248056. (Undetermined.)

Col. No. 18848. 'Cambuca'. Corupa, Santa Catharina. Tree to 3.5 meters high; fruits yellow; pulp edible.

248057. (Undetermined.)

Col. No. 18871. Rio Paulo, Corupa, Santa Catharina. Elevation 700 meters. Epiphyte in rain forest.

248058 to 248064. Received May 19, 1958.

248058. CALLIANDRA TWEEDI Benth. Mimosaceae.

Col. No. 18696. Institut Florestal, Rio Claro, Sao Paulo. Wide-spreading shrub with dense foliage; flowers reddish-pink.

248059. GUNNERA MANICATA Linden Halorrhagidaceae. **Great gunnera.**

Col. No. 18959. Boca da Serra, Sao Francisco de Paulo, Rio Grande do Sul. Elevation 900 meters. Rare plant with stems to 2 meters long; leaves about 2 meters wide.

248060. MARANTA sp. Marantaceae.

Col. No. 18840. Corupa, Santa Catharina. Elevation 63 meters; leaves dark green with grayish-white stripes.

248061. TILLANDSIA PULCHELLA Hook. Bromeliaceae.

Col. No. 18939. 'Cravo do Mato'. Fazenda do Arrayo, Osorias, Rio Grande do Sul. Elevation 10 meters.

248062. TYPHA ANGUSTIFOLIA L. Typhaceae. **Cattail**

Col. No. 18968. Osario, north of Porto Alegre, Rio Grande do Sul. Elevation 50 meters. Flowers yellowish to brown.

248063. TILLANDSIA ENSIFORMIS Vell. Bromeliaceae.

Col. No. 18873. Rio Paulo, Corupa, Santa Catharina. Elevation 700 meters. Epiphyte in virgin forest.

248064. (Undetermined.)

Col. No. 18888. Riberao do Rancho, Corupa, Santa Catharina. Elevation 500 meters. Terrestrial in virgin rainforest.

248065 to 248105. Received May 20, 1958.

248065. ALOCASIA CUPREA C. Koch Araceae.

Col. No. 19035. Sao Paulo. Leaves dark green, shiny.

248066. HIPPEASTRUM PSITTACINUM (Ker) Herb. Amaryllidaceae.

Col. No. 19040. 'Acucena'. Sao Paulo. Growing on decayed tree trunk.

248067. BEGONIA sp. Begoniaceae.

Col. No. 18972. Tres Furquilhos. Rio Grande do Sul. Elevation 600 meters. Plant to 45 cm. high.

248068. BEGONIA sp.

Col. No. 18973. Tres Furquilhos, Rio Grande do Sul. Elevation 500 meters. Leaves dark green above, copper-brown beneath.

248069. BEGONIA MANICATA Cels

Col. No. 19038. Sao Paulo. Elevation 200 meters. Leaves thick, pinkish-red underneath.

248070. CALLIANDRA HAEMATOCEPHALA Hassk. Mimosaceae.

Col. No. 19033. 'Inga'. Sao Paulo. Shrub to 2.5 meters high; flowers with long pendent filaments.

248071. CYCAS sp. Cycadaceae.

Col. No. 19039. Sao Paulo.

248072. ZYGOCACTUS TRUNCATUS K. Schum. Cactaceae. **Christmas cactus.**

Col. No. 18857. Rio Paulo, Corupa, Santa Catharina. Elevation 300 meters. Succulent; flowers deep pink.

248073. ERYTHRINA SPECIOSA Andr. Fabaceae.

Col. No. 19037. Ilhabella, Sao Paulo. Elevation five meters. Tree to 18 meters high; flowers pink.

248074. FICUS MONCKII var. SAN-MARTINIANUS Parodi Moraceae. **Fig.**

Col. No. 19003. 'Agarra-palo'. Facultad de Agronomia y Veterinaria. Tree to 14 meters high; crown wide-spreading.

248075. HEDYCHIUM COCCINEUM Buch.-Ham. Zingiberaceae. **Gingerlily.**

Col. No. 19043. Sao Paulo. Leaves to 1.5 meters; flowers red. (Rhizomes.)

248076. JATROPHA MULTIFIDA L. Euphorbiaceae.

Col. No. 19030. Ilhabella, Sao Paulo. Elevation 5 meters. Shrub to 21 dm. high; leaves used as compresses to heal wounds.

248077. ONCIDIUM VARICOSUM var. ROGERSII Reichb f. Orchidaceae. **Orchid.**

Col. No. 19028. Ilhabella, Sao Paulo. Elevation 5 meters.

248078. OXALIS sp. Oxalidaceae.

Col. No. 18971. Boca da Serra, Rio Grande do Sul. Elevation 700 meters. Plant to 37 cm. high.

248079. PAIVAEA LANGSDORFFII Berg. Myrtaceae.

Col. No. 19042. 'Cambuci'. Sao Paulo.

248080. PEPEROMIA sp. Piperaceae.

Col. No. 18970. Eastern escarpment of Serra Genol, Tres Furquilhos, Rio Grande do Sul. Elevation 600 meters.

248081. PETREA SERRULATA Presl Verbenaceae.

Col. No. 19022. 'Flor de Sao Miquel'. Corupa, Santa Catharina. Elevation 65 meters. Woody vine; flowers violet-blue, in large, erect racemes.

248082. PHILODENDRON sp. Araceae.

Col. No. 19052. 'Rubrum'. Sao Paulo. Leaves fairly large, pale brown to copper on underside.

248083. PHILODENDRON VERRUCOSUM Schott

Col. No. 19050. Sao Paulo. Leaves dark green; pale purplish on underside.

248084. PHILODENDRON sp.

Col. No. 19051. 'Imbre Buambe'. Sao Paulo Epiphyte.

248085. PHYTOLACCA DIOICA L. Phytolaccaceae. **Ombu.**

Col. No. 19004. 'Ombii'. Facultad de Agronomia y Veterinaria, Buenos Aires, Argentina. Tree to 15 meters high; crown dense.

248086. PILEA CADIEREI Gagn. & Guill. Urticaceae.

Col. No. 19031. Sao Paulo. Elevation 200 meters. Plant to 60 cm. high; leaves dark green with gray patches. Grows best in half shade.

248087. POTHOS sp. Araceae.

Col. No. 18982. Porto Alegre, Rio Grande do Sul. Elevation 5 meters. Epiphyte with small, thick leaves.

248088. RHIPSALIS MYOSURAS Foerst. Cactaceae.

Col. No. 18958. Fazenda do Arroyo, Rio Grande do Sul.

248089. SALVIA sp. Menthaceae.

Col. No. 18974. Boca da Serra, summit of Serra Gerol, Rio Grande do Sul. Elevation 900 meters. Plant to 37 cm. high.

248090. SANSEVIERIA sp. Lilaceae.

Col. No. 18985. Porto Alegre, Rio Grande do Sul. Elevation 5 meters. Plant to 13 dm. high; leaves with gray bands.

248091. SANSEVIERIA sp.

Col. No. 18986. Porto Alegre, Rio Grande do Sul. Elevation 5 meters. Plant to 1 meter high; leaves dark green with deep yellow edges.

248092. SANSEVIERIA sp.

Col. No. 18987. Porto Alegre, Rio Grande do Sul. Elevation 5 meters. Plant to 50 cm. high; leaves grayish to predominantly white.

248093. SANSEVIERIA sp.

Col. No. 18988. Porto Alegre, Rio Grande do Sul. Elevation 5 meters. Plant to 2 meters high; leaves with alternating light and dark green bands.

248094. SANSEVIERIA sp.

Col. No. 18989. Porto Alegre, Rio Grande do Sul. Elevation 5 meters. Plant to 7.5 dm. high; leaves with greenish crossbands.

248095. SANSEVIERIA sp.

Col. No. 18990. Porto Alegre, Rio Grande do Sul. Elevation 5 meters. Leaves with green and gray crossbands.

248096. SANSEVIERIA sp.

Col. No. 18992. Porto Alegre, Rio Grande do Sul. Elevation 5 meters. A low rosette type with narrow light gray crossbands.

248097. SESBANIA sp. Fabaceae.

Col. No. 18736. State of Parana. Elevation 950 meters. Shrub to 24 dm. high; top flat.

248098. SWARTZIA LANGSDORFFII Raddi Caesalpiniaceae.

Col. No. 19041. Instituto of Botanica, Campo de Estado, Sao Paulo. Tree to 9 meters high; crown dense.

248099. TIBOUCHINA GRANULOSA (Desr.) Cogn. Melastomataceae.

Col. No. 19034. 'Cor da Rosa'. Sao Paulo. Tree to 9 meters high; fairly dense crown; flowers rose-pink.

248100. TIBOUCHINA sp.

Col. No. 19029. Ilhabella, Sao Paulo. Shrub to 2.5 meters high; leaves purple, covered with grayish pubescense.

248101. VRIESIA sp. Bromeliaceae.

Col. No. 18976. On eastern escarpment of Serra Gerol, Rio Grande do Sul. Elevation 800 meters.

248102. (Undermined.)

Col. No. 18879. Riberao do Rancho, Corupa, Santa Catharina. Elevation 700 meters.

248103. (Undetermined.)

Col. No. 18981. Porto Alegre, Rio Grande do Sul. Elevation 5 meters. Woody vine; flowers pinkish, fairly large.

248104. (Undetermined.)
Col. No. 19021. Rio Claro, Sao Paulo.

248105. (Undetermined.)

Col. No. 19036. Plant to 40 cm. high; leaves light green and creamy yellow.

248106 to 248139. Received May 20, 1958.

248106. ADIANTUM sp. Polypodiaceae.

Col. No. 19059. Ilhabella, Sao Paulo. Elevation 5 meters. Plant to 50 cm. high.

248107. ALOCASIA LOWII Hook. Araceae.

Col. No. 19070. Instituto Agronomico, Campinas, Sao Paulo.

248108. ALOCASIA sp.

Col. No. 19068. Instituto Agronomico, Campinas, Sao Paulo. A decorative plant with light green leaves.

248109. ALOCASIA sp.

Col. No. 19072. Instituto Agronomico, Campinas, Sao Paulo.

248110. CYPRIPEDIUM sp. Orchidaceae.

Col. No. 19032. Sao Paulo. Plant prostrate.

248111. CORYTHOLOMA BULBOSUM (Ker) Voss Gesneriaceae.

Col. No. 19075. 'Rainha do Abismo'. Instituto Agronomico, Campinas, Sao Paulo.

248112. GRINDELIA BUPHTHALMOIDES DC. Asteraceae.

Col. No. 19002. Facultad de Agronomia y Veterinaria, Buenos Aires, Argentina. Plant to 13 dm. high; flowers yellow. Said to be resistant to cold and suitable for rock gardens.

248113. GYNURA DENSIFLORA Miq. Asteraceae.

Col. No. 19073. Instituto Agronomico, Sao Paulo. Plant to one meter high; leaves purplish pubescent.

248114. JACOBINA VELUTINA (Nees) Voss. Acanthaceae.

Col. No. 19057. Sao Paulo. Shrub to 2.5 meters high; leaves purplish; flowers pinkish red.

248115. LIPPIA CITRIODORA H. B. K. Verbenaceae.

Col. No. 19074. Instituto Agronomico, Campinas, Sao Paulo. Low bushy herb.

248116. MARANTA ARUNDINACEA L. Marantaceae. **Bermuda arrowroot.**

Col. No. 19066. Instituto Agronomico, Campinas, Sao Paulo.

248117. MARCGRAVIA sp. Marcgraviaceae.

Col. No. 19071. Instituto Agronomico, Campinas, Sao Paulo. Shrub 1 meter high.

248118. MONSTERA DELICIOSA Liebm. Araceae. **Ceriman.**

Col. No. 19054. Sao Paulo.

248119. OPLISMENUS HIRTELLUS (L.) Beauv. Poaceae.

Col. No. 19078. Instituto Agronomico, Campinas, Sao Paulo.

248120. PEPEROMIA OBOVATA DC. Piperaceae.

Col. No. 19080. Instituto Agronomico, Campinas, Sao Paulo. Leaves pale-green, edges white.

792-290—66——10

248121. PEPEROMIA sp. Piperaceae.

Col. No. 19081. Instituto Agronomico, Campinas, Sao Paulo. Plant prostrate.

248122. PHALARIS ARUNDINACEA var. PICTA L. Poaceae.

Col. No. 19077. Instituto Agronomico, Campinas, Sao Paulo.

248123 to 248127. Sao Paulo.

248123. PHILODENDRON LACINIOSUM Schott Araceae

Col. No. 19053.

248124. PHILODENDRON sp.

Col. No. 19055.

248125. PHILODENDRON sp.

Col. No. 19056.

248126. PHILODENDRON sp.

Col. No. 19058.

248127. PHILODENDRON sp.

Col. No. 19060.

248128. PHILODENDRON sp.

Col. No. 19087. Ilhabella, Sao Paulo.

248129. POLYPODIUM sp. Polipodiaceae.

Col. No. 18902. Elevation 500 meters. Common on rocks and trees; fronds to 18 dm. long.

248130. SANSEVIERIA sp. Liliaceae.

Col. No. 18991. Porto Alegre, Rio Grande do Sul. Elevation 5 meters. Plant low; leaves with light gray crossbands.

248131. SCINDAPSUS AUREUS Engl. Araceae.

Col. No. 19023. Corupa, Santa Catharina. Elevation 65 meters. Plant to 1 meter high.

248132. SOLANUM VIOLAEFOLIUM Schott Solanaceae.

Col. No. 19082. Instituto Agronomico, Campinas, Sao Paulo. Straggly plant; flowers white.

248133. SOLANUM sp.

Col. No. 19089. Sao Paulo. Subshrub.

248134. STIFFTIA CHRYSANTHA Mikan Asteraceae.

Col. No. 19079. Instituto Agronomico, Campinas, Sao Paulo. Shrub to 2.5 meters high; flowers pale yellowish in 'Puff Balls'.

248135. STROMANTHE SANGUINEA Sond. Marantaceae.

Col. No. 19065. Instituto Agronomico, Campinas, Sao Paulo.

248136. TIBOUCHINA MUTABILIS Cogn. Melastomataceae.

Col. No. 19088. Chacara Jacob, Sao Paulo. Shrub to 1.5 meters high; petals deep purple with white center.

248137. WEDELIA sp. Asteraceae.

Col. No. 19069. Instituto Agronomico, Campinas, Sao Paulo. Shrub to 25 cm. high; flowers small, yellow.

248138. XANTHOSOMA sp. Araceae.

Col. No. 19067. 'Purple Tairho'. Instituto Agronomico, Campinas, Sao Paulo.

248139. (Undetermined.) Phoenicaceae.

Col. No. 19061. Sao Paulo. A small decorative palm cultivated in gardens around Sao Paulo.

248140. ANTHURIUM HARRISH (Graham) Endl. Araceae.

Col. No. 19101. Sao Paulo. Leaves to 45 cm. long, dark green.

248141. ERYTHRINA RETICULATA Presl. Fabaceae.

Col. No. 18710. (No field note.)

248142. EUGENIA CARYOPHYLLATA Thumb. Myrtaceae. **Clove.**

Col. No. 19044. Sao Paulo. Small to medium sized tree.

248143. (Undetermined.)

Col. No. 18969. (No field note.)

248144. (Undetermined.)

Col. No. 18978. (No field note.)

248145. (Undetermined.)

(No field number.)

248146 to 248150.

From Germany. Plants presented by Herm. A. Hesse, Baumschulen, Weener. Received May 21, 1958.

248146. AESCULUS NEGLECTA Lindl. Aesculaceae. **Buckeye.**

248147. AESCULUS PAVIA L. **Buckeye.**

'Atrosanguinea'.

248148 to 248150. FAGUS SYLVATICA L. Fagaceae. **European beech.**

248148. 'Cristata'.

248149. 'Heterophylla'.

248150. 'Purpurea Major'.

248151. SOLANUM (hybrid). Solanaceae.

From Pakistan. Tubers presented by the Punjab Agricultural College. Lyallpur. Received May 21, 1958.

'USA 5'. Spring crops.

248152. HYPERICUM LANCEOLATUM Lam. Hypericaceae.

St.-Johns-wort.

From Kenya. Seeds presented by the Forest Department, Nairobi. Received May 21, 1958.

248153. DIOSCOREA sp. Dioscoreaceae.

From Nicaragua. Tubers collected by E. P. Imle, collaborator, New Crops Research Branch, Plant Industry Station, Beltsville, Md. Received May 14, 1958.

Col. No. 91. 'El Recreo'. Tubers white fleshed.

248154 to 248160.

From Formosa. Seeds presented by B. O. Mulligan, Washington Arboretum, Seattle, Washington. Received May 21, 1958.

248154. ALNUS FORMOSANA (Burk.) Mak. Betulaceae. **Alder.**

248155. CHAMAECYPARIS FORMOSANA Mats. Pinaceae. **Falsecypress.**

248156. CHAMAECYPARIS sp.

248157. CUNNINGHAMIA KONISHII Hayata Pinaceae.

248158. LIBOCEDRUS FORMOSANA Flor. Pinaceae.

248159. PAULOWNIA FORTUNEI (Seem.) Hemsl. Scrophulariaceae.

248160. TSUGA CHINENSIS (Franch.) Pritz. Pinaceae. **Chinese hemlock.**

248161 and 248162. TEPHROSIA VOGELII Hook. f. Fabaceae.

From Puerto Rico and the United States. Seeds presented by an unknown donor and held at the U.S. Plant Introduction Station, Glenn Dale, Maryland. Numbered May 21, 1958.

248161. B–49993. Grown at Torrey Pines, California.

248162. B–49994. Mayaguez, Puerto Rico.

248163 to 248168. ORYZA SATIVA L. Poaceae. **Rice.**

From Italy. Seeds presented by the Food and Agriculture Organization of the United Nations, Rome. Received May 21, 1958.

Former sources indicated.

248163. 'Chianan 8'.

248164. 'Chia-nung-yu'. Taiwan.

248165. 'Gendjah Banten'. Indonesia.

248166. 'Pebifum'. Malaya.

248167. B.M. 5. Malaya.

248168. No. 640. Italy.

248169. CAPSICUM FRUTESCENS L. Solanaceae. **Redpepper.**

From the United States. Plants growing at the U.S. Plant Introduction Station, Glenn Dale, Maryland. Numbered May 21, 1958.

Received from the Plant Industry Station, Beltsville, in 1957; previous history unknown. Fruits conical-pointed, about 3 inches long and 1.5 inches in diameter at top; skin red at maturity, flesh medium thick and very mild; one of the mildest varieties.

248170. PEPEROMIA sp. Piperaceae.

From Brazil. Plants collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 22, 1958.

Col. No. 18856. Rain forest, Corupa, Santa Catharina. Elevation 500 meters. Slender epiphyte; leaves thick.

248171. NEOGLAZIOVIA VARIEGATA (Arruda) Mez Bromeliaceae.

From Brazil. Cuttings presented by the United States Embassy, Rio de Janeiro. Received May 22, 1958.

248172. FICUS INFECTORIA Roxb. Moraceae. **Fig.**

From Japan. Seeds presented by the Forest Experiment Station, Kyoto University, Kyoto. Received May 22, 1958.

Collected at Murotozaki, Kochi, Shikoku, 1957.

248173. LUPINUS ALBUS L. Fabaceae. **White lupine.**

From Brazil. Seeds presented by the Instituto Agronomico do Estado de Sao Paulo, Campinas, Sao Paulo. Received May 22, 1958.

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248174 to 248227.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 23, 1958.

248174. ASPARAGUS sp. Convallariaceae.

Col. No. 21361. Forty-five to 60 km. south of Bukavu, in the Ruizizi Valley. Elevation 1,000 meters. Plant spiny, to 2 meters high.

258175. ASPARAGUS sp.

Col. No. 21415. Savanna 20 km. east of Kigali, Ruanda Urundi. Elevation 1,500 meters. Plant spiny, to 5 meters high.

248176. CISSUS sp. Vitaceae.

Col. No. 21444. Twenty km. northwest of Elizabethville. Plant 70 cm. high with coarse red hairs; fruits red.

248177. CISSUS sp.

Col. No. 21445. Scrub forest area, near airport, 10 km. north of Elizabethville. Elevation 1,400 meters. Vine; fruits red.

248178. CITRULLUS sp. Cucurbitaceae.

Col. No. 21099. 'Mangara'. Vine; flowers yellow; fruits 12–15 cm. in diameter; seeds used as food.

248179. CITRULLUS sp.

Col. No. 21437. 'Ndanga'. Eighty km. from Astrida, Ruanda Urundi. Fruit globular, 5 to 7 cm. in diameter, greenish or yellow mottled.

248180. IPOMOEA sp. Convolvulaceae.

Col. No. 21346A. Three km. north of Bukavu.

248181. PISUM SATIVUM L. Fabaceae. **Garden pea.**

Col. No. 23171. African market near Bugarama, Ruanda Urundi. Elevation 2,100 meters.

248182. ADENOCARPUS MANNII Hook. f. Fabaceae.

Col. No. 21214. Nioka Station, INEAC, Nioka.

248183. CLEOME sp. Capparidaceae.

Col. No. 21409. Seven km. east of Kigali, Ruanda Urundi. Elevation 1,500 meters. Plant branched, to 1 meter high; flowers lavender.

248184. DRACAENA sp. Liliaceae.

Col. No. 21435. Forty km. northeast of Kegali, Ruanda Urundi. Elevation 2,000 meters. Plant to 15 meters high.

248185. HIBISCUS sp. Malvaceae.

Col. No. 21245. Ten km. north of Kayna, Nord du Kivu Province. Shrub to 2 meters high.

248186. LEFEBVREA sp. Apiaceae.

Col. No. 21139. Savanna, 30 km. north of Aba. Seeds fragrant.

248187. LOTONONIS BAINESII Baker Fabaceae.

Col. No. 21230. Nioka Station, INEAC, Nioka.

248188. PECTIS sp. Asteraceae.

Col. No. 21250. 'Casindiaua'. Twenty km. south of Nioka, near Fataki. Elevation 1,200 meters. Plant to 2 meters high; oil glands on bracts and leaves.

248189. RUMEX sp. Polygonaceae.

Col. No. 21325. Thirty km. south of Rutshuru. Vine; bracts red, attractive.

248190. TEPHROSIA HECKMANNIANA Harms Fabaceae.

Col. No. 21305. Savanna 5 km. north of Rutshuru. Plant to 2 meters high.

248191. TEPHROSIA NOCTIFLORA Bojer.

Col. No. 21083. Bambesa Station, INEAC. Plant to 60 cm. high. Withstands dry season.

248192 and 248193. TEPHROSIA PANICULTA Welw.

248192. Col. No. 21222. Nioka Station, INEAC.

248193. Col. No. 21277. Near Butembo. Shrub to 1 meter high.

248194 to 248213. TEPHROSIA VOGELII Hook. f.

248194. Col. No. 21086. 'Nbale in Babua'. Bambesa. Plant to 1 meter high; leaves used to stupefy fish.

248195. Col. No. 21123. 'Camba'. Edge of native clearing, 37 km. west of Faradje. Plant to 2 meters high. Used to poison fish.

248196. Col. No. 21151. 'Luria'. Near Kitambala, about 60 km. south, southwest of Aba. Shrub to 2 meters high. Used to poison fish.

248197. Col. No. 21163. Native planting on Nioka Station, INEAC. Shrub to 3 meters high. Used to poison fish.

248198. Col. No. 21236. Five km. south of Kayna, Nord du Kivu Province. Elevation 1,750 meters.

248199. Col. No. 21238. About 10 km. south of Kayna, Nord du Kivu Province. Elevation 1,700 meters.

248200. Col. No. 21239. Entrance to Albert National Park, along escarpment to Rift Valley, above Lake Edward. Elevation 1,500 meters.

248201. Col. No. 21255. Five km. south of Beni. Plant to 2 meters high; flowers purple.

248202. Col. No. 21257. 'Charra'. Ten km. south of Irumu.

248203. Col. No. 21259. Forty km. south of Beni. Elevation 900 meters. Flowers white.

248204. Col. No. 21260. Pygmy village near Mt. Hoyo, south of Irumu. Plant to 2 meters high.

248205. Col. No. 21261. Pygmy village 95 km. north of Beni.

248206. Col. No. 21262. Pygmy village 80 km. north of Beni. Elevation 750 meters.

248207. Col. No. 21263. Planting in forest 35 km. north of Beni.

248208. Col. No. 21279. Above Butembo. Elevation 1,800 meters.

248209. Col. No. 21280. Above Butembo. Elevation 1,800 meters.

248210. Col. No. 21283. Garden 5 km. south of Beni. Elevation 1,200 meters.

248211. Col. No. 21288. Dry hills, edge of forest, Kayna. Elevation 1,950 meters.

248212. Col. No. 21289. Dry hills, Kayna. Elevation 1,800 meters.

248213. Col. No. 21290. Dry hills, Kayna, to edge of forest.

248214. TEPHROSIA sp.

Col. No. 21129. Dry savanna 10 km. west of Faradje. Plant 25 cm. high.

248215. TEPHROSIA sp.

Col. No. 21233. Hills near Kayna, nord du Kivu Province. Plant 1 meter high.

248216. TEPHROSIA sp.

Col. No. 21234. Dry grassy hills near Kayna, Nord du Kivu Province. Plant 25 to 75 cm. high. Similar to *T. vogelii* but plant and seeds smaller; pods shorter.

248217. TEPHROSIA sp.

Col. No. 21269. Savanna area 25 km. east of Beni. Elevation 900 meters.

248218 and 248219. TEPHROSIA PANICULATA Welw.

248218. Col. No. 21276. Hills near Butembo, south of Beni. Elevation 1,700 meters.

248219. Col. No. 21292. Dry hills above Kayna. Elevation 1,950 meters.

248220. TEPHROSIA AEQUILATA Baker

Col. No. 21293. Hills 5–10 km. north of Kayna. Elevation 1,600 meters. Plant to 75 cm. high.

248221. TEPHROSIA PANICULATA Welw.

Col. No. 21295. Dry hills near Kayna. Elevation 1,600 meters.

248222. RHYNCHOSIA HOCKII DeWild. Fabaceae.

Col. No. 21304. Five km. north of Rutshuru. Vine; leaves 3-foliolate.

248223. TEPHROSIA MILRBAEDII Harms Fabaceae.

Col. No. 21312. Lava fields 50 km. south of Rutshuru. Elevation 1,650 meters.

248224. TEPHROSIA HECKMANNIANA Harms.

Col. No. 21324. Three km. south of Rutshuru. Shrub to 2 meters high.

248225. THALICTRUM sp. Ranunculaceae.

Col. No. 21309. Lava fields 30 km. south of Rutshuru. Elevation 1,700 meters.

248226. THEVETIA sp. Apocynaceae.

Col. No. 21095. Roadside in savanna area 10 km. north of Dungu. Shrub to 3 meters high; flowers yellow.

248227. URENA LOBATA L. Malvaceae.

Col. No. 21256. Ten km. southeast of Bunia. Shrub to one meter high.

248228. TEPHROSIA VOGELII Hook. f. Fabaceae.

From Liberia. Seeds obtained by Marvin Klemme, Bessie, Oklahoma. Collected April, 1958, and received May 26, 1958.

From the Woerlla Nursery, 60 miles east of Monrovia. Rainfall 120 inches. Leaves used by native to poison fish.

248229 and 248230.

From Mexico. Seeds collected by H. S. Gentry, agricultural explorer and E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 26, 1958.

248229. TRIXIS RADIALIS (L.) Lag. Asteraceae.

Col. No. 16416. Six to 7 km. north of Villa Flores, Chiapas; arkosic savanna. Virgate bush to 1.5 meters high; crown thin, spreading.

248230. VERBESINA sp. Asteraceae.

Col. No. 16415. Villa Flores, Chiapas. Single-stemmed herb to three meters high.

248231 to 248251. SORGHUM BICOLOR (L.) Moench Poaceae.

From Ethiopia. Seeds presented by the Imperial Ethiopian College of Agricultural and Mechanical Arts, Dire Dawa. Received May 23, 1958.

248231. No. 1. Glumes glossy, mahogany, caryopsis grayish-pink.

248232. No. 2. Caryopsis grayish-pink.

248233. No. 3. Caryopsis dull red.

248234. No. 4. Caryopsis chalk-white.

248235. No. 5. Glumes light reddish.

248236. No. 6. Glumes white with pinkish tinge.

248237. No. 7. Glumes straw colored.

248238. No. 8. Glumes glossy, mahogany; caryopsis pinkish.

248239. No. 9. Glumes glossy, mahogany; caryopsis light violet.

248240. No. 10. Caryopsis pinkish.

248241. No. 11. Glumes glossy, dark mahogany.

248242. No. 12. Caryopsis dull straw color.

248243. No. 13. Glumes dull mahogany.

248244. No. 14. Caryopsis smooth, white.

248245. No. 15. Caryopsis pinkish.

248246. No. 16. Caryopsis 0.5 x 0.5 mm.

248247. No. 17. Glumes and caryopsis light colored.

248248. No. 18. Glumes light colored, pubescent.

248249. No. 19. Caryopsis light yellow, large.

248250. No. 20. Glumes straw colored; caryopsis white.

248251. No. 21. Caryopsis glossy, light mahogany.

248252 to 248260.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Organization, Canberra. Received May 27, 1958.

248252 and 248253. GLYCINE CLANDESTINA Wendl. Fabaceae.

248252. No. 1. Steep mountain country, Blue Range and Coree, Australian Commonwealth Territory. Snow-covered in winter; rainfall 40 inches, distributed throughout the year, maximum temperature 95 degrees. Elevation 4,500 feet.

248253. No. 2. Bungonia Park Lookdown, New South Wales; sheltered rocky slopes 2,000 feet elevation. Annual rainfall 25 inches distributed throughout year; heavy winter frost.

248254. HIEROCHLOE REDOLENS R. Br. Poaceae.

C. 1026. Mount Ginini and Mount Gingera, Australian Commonwealth Territory. Elevation 4,500 feet. Sphagnum swamps in Silurian sandstone-quartzite ranges. Black, peaty soil, snow covered in winter. Annual rainfall to 60 inches.

248255 to 248260. THEMEDA AUSTRALIS (R. Br.) Stapf Poaceae. **Redgrass.**

248255. No. 893. Between Binalong and Browning, New South Wales. Diploid.

248256. No. 894. Between Yass, New South Wales and Canberra. Diploid.

248257. No. 1056. Hastings, Mornington Peninsula, Victoria. Diploid.

248258. No. 1075. Between Warialda and Gravesend, New South Wales, Tetraploid.

248259. No. 1110. Macarthur, western district of Victoria. Diploid.

248260. North of Albany, Western Australia. Tetraploid.

248261. STIZOLOBIUM HASSJOO Piper & Tracy Fabaceae.

Yokohama velvetbean.

From Japan. Seeds presented by the Shikoku Agricultural Experiment Station, Zentsuji, Kagawa, Shikoku. Received May 27, 1958.

248262 to 248341. SORGHUM BICOLOR (L.) Moench Poaceae.

From India. Seeds presented by the Rockefeller Foundation, Indian Agricultural Program, New Delhi. Received May 27, 1958.

248262. No. 1052. Coimbatore, Madras.

248263. No. 1053. Coimbatore, Madras.

248264. No. 1054. Poona, Bombay.

248265. No. 1055. Jowar. B.P.53.

248266. No. 1056. Jowar. C–10–2.

248267. No. 1057. Jowar. 'Barri—3–8–2'.
248268. No. 1058. Jowar. Wai 3–6–2.
248269. No. 1059. Jowar. B.D. 8.
248270. No. 1060. Jowar. 'Sundhia—1049'.
248271. No. 1061. Jowar. No. 3–38.
248272. No. 1062. Jowar. No. 28–14.
258273. No. 1063. Rabi Jowar. No. 8.
248274. No. 1064. Karad (N. Satara), Bombay. G. 10–7.
248275. No. 1065. 'JI Ramkhed'.
248276. No. 1066. 'Indire—3'.
248277. No. 1068. 'Bha Hineri'.
248278. No. 1069. 'Khandi'.
248279. No. 1070. 'Mamdaypura'.
248280. No. 1071. 'Kanpur'.
248281. No. 1072. 'Alleshasuare Banglase'.
248282. No. 1073. 'Rah Atharri'.
248283. No. 1074. 'Amahner'.
248284. No. 1075. 'Changdu'.
248285. No. 1076. 'White Long Celumid'.
248286. No. 1077. 'Long Earhead'.
248287. No. 1078. Isakri Malari'.
248288. No. 1079. 'Mandi—1–2'.
248289. No. 1080. 'Koregoon—2–2–2–'.
248290. No. 1081. 'Wai 3–6–2'.
248291. No. 1082. 'Barah 3–8–1'.
248292. No. 1083. 'Karad 7–12–3'.
248293. No. 1084. A–5.
248294. No. 1085. J–27.
248295. No. 1086. J–28.
248296. No. 1087. J–31.
248297. No. 1088. 'Kawanda'.
248298. No. 1089. M–N–4.
248299. No. 1090. S.A.–2.
248300. No. 1091. T–15.
248301. No. 1092. T–16.
248302. No. 1093. 'Tawar–6'.
248303. No. 1094. 'Bail Hongal 25–1–2'.
248304. No. 1095. 'Bail Hongal 4–1–4'.
248305. No. 1096. 'Yenigar–2'.
248306. No. 1097. 'Yenigar–560–1–1'.
248307. No. 1098. 'Malawn'. Shahabad, Bihar.
248308. No. 1112. 'Niluea'. Vadgaon, Bombay.
248309. No. 1113. 'Baligoon'.
248310. No. 1114. 'Sheasager'.
248311. No. 1115. 'Saraiya'.

248312. No. 1116. 'Nan Ha Ha'.

248313. No. 1117. 'Satsemasi'.

248314. No. 1118. 'Urda Chenari'. Shahabad, Bihar.

248315. No. 1119. 'Dog 36'. Ahmednagar, Bihar.

248316. No. 1120. 'Shenali–4–5'. Karad (N. Stara) Bombay.

248317. No. 1121. 'Karad–2–7–11'.

248318. No. 1122. 'Karad Local'.

248319. No. 1123. 'Kanke No. 1'. Kanke (Rachi) Bihar.

248320. No. 1124. 'Kanke No. 2'.

248321. No. 1125. A.10. Bhagalpur, Bihar.

248322. No. 1126. A–32.

248323. No. 1127. A–35.

248324. No. 1128. A–38.

248325. No. 1129. 53–165–1.

248326. No. 1130. 53–145–1.

248327. No. 1131. 53–1–9–1.

248328 to 248339. Nandyal, Andhra-Pradesh.

248328. No. 1132. N–1.
248329. No. 1133. N–2.
248330. No. 1134. N–3.
248331. No. 1135. N–4.
248332. No. 1136. N–5.
248333. No. 1137. N–6.
248334. No. 1138. N–7.
248335. No. 1139. N–8.
248336. No. 1140. N–9.
248337. No. 1141. N–10.
248338. No. 1142. N–11.
248339. No. 1143. N–12.

248340. No. 1144. 'Jonna—A.K.F.–1'. Vijayangaran.

248341. No. 1145. 'Jonna—A.K.F.–2'. Vijayangaran.

248342. ADIANTUM TRAPEZIFORME L. Polypodiaceae. **Fern.**

From the United States. Plants presented by the Sub-Tropical Experiment Station, Homestead, Florida. Received May 27, 1958.

Formerly from Brazil.

248343 to 248394.

From India. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 27, 1958.

248343 to 248354. CARTHAMUS OXYACANTHA Bieb. Asteraceae.

Northwest of Punjab Electric Station, Bohtak Road, northwest of New Delhi. April 23, 1958.

248343. Col. No. K 262.
248344. Col. No. K 263.
248345. Col. No. K 264.
248346. Col. No. K 265.
248347. Col. No. K 266.
248348. Col. No. K 267.
248349. Col. No. K 268.
248350. Col. No. K 269.
248351. Col. No. K 270.
248352. Col. No. K 271.
248353. Col. No. K 272.
248354. Col. No. K 273.

248355 to 248389. CARTHAMUS TINCTORIUS L. **Safflower.**

248355 to 248384. Botanical Substation (IARI), Pusa.

248355. Col. No. K1. 'Kusum'. NP 2.

248356. Col. No. K2. NP 1.

248357. Col. No. K3. NP 3.

248358. Col. No. K4. NP 5.

248359. Col. No. K5. NP 6.

248360. Col. No. K6. NP 7.

248361. Col. No. K7. NP 11.

248362. Col. No. K8. NP 13.

248363. Col. No. K9. NP 14.

248364. Col. No. K10. NP 16.

248365. Col. No. K11. NP 18.

248366. Col. No. K12. NP 19.

248367. Col. No. K13. NP 21.

248368. Col. No. K14. NP 22.

248369. Col. No. K15. NP 23.

248370. Col. No. K16. NP 24.

248371. Col. No. K17. NP 25.

248372. Col. No. K18. NP 27.

248373. Col. No. K19. NP 28.

248374. Col. No. K20. NP 29.

248375. Col. No. K21. NP 30. Most important variety in Bihar.

248376. Col. No. K22. NP 32.

248377. Col. No. K23. NP 33.

248378. Col. No. K24. NP 34.

248379. Col. No. K25. NP 31.

248380. Col. No. K26. NP 4.

248381. Col. No. K27. NP 10.

248382. Col. No. K28. NP 17.

248383. Col. No. K29. NP 26.

248384. Col. No. K30. NP hybrid. NPI × NP 30.

248385. Col. No. K34. Village of Srirampur, about 1 mile south of Pusa Station. Used as green vegetable in early stages, and for edible oil from seeds. Oil also is a skin lubricant.

248386. Col. No. K35. 'Kusum'. Srirampur, about 1 mile south of Pusa Station. Plants spiny.

248387. Col. No. K36. 'Kusum'. Village of Maidapur, 1.5 miles south of Pusa Station. Plants spineless; flowers red or orange.

248388. Col. No. K38. 'Kusum'. Village of Maidapur, 1.5 miles south of Pusa Station. Plants spineless; flowers red.

248389. Col. K41. Saidpur, across river from Pusa Station. Plant spiny; flowers orange.

248390 to 248394. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

248390. Col. No. K31. Village of Srirampur, about 1 mile south of Pusa Station.

248391. Col. No. K32. Village of Srirampur, about 1 mile south of Pusa Station. Smaller plants than P.I. 248390.

248392. Col. No. K33. Village of Srirampur.

248393. Col. No. K37. Village of Maidapur, 1.5 miles south of Pusa Station.

248394. Col. No. K40. Village of Saidpur, across river from Puso Station.

248395 to 248410. GLYCINE MAX (L.) Merr. Fabaceae. **Soybean.**

From Yugoslavia. Seeds presented by the Institute for Agricultural Research, Novisad. Received May 27, 1958.

From Vayvodina, northern part of Yugoslavia, unless otherwise noted.

248395. 'Bijeljina'.

248396. 'Bogatic'.

248397. 'Dobrudza No. 14'.

248398. 'Illinois 301'. Originally from Urbana.

248399. 'Italian Early'.

248400. 'Kragujevac No. 4'.

248401. 'Krizeveacka No. 3'.

248402. 'Manhatten'. Originally from Urbana.

248403. 'Mautner.'

248404. 'Novosadska Bela'; 'Novosadska White'.

248405. 'Novosadska Rana'; 'Novosadska Early'.

248406. 'Osijecka'.

248407. From Stremska Mitrovica.

248408. From Stara Pazova.

248409. 'Subotica'.

248410. 'Turkish'.

248411 and 248412. FAGOPYRUM ESCULENTUM Moench Polygonaceae. **Buckwheat.**

From the Union of South Africa. Seeds presented by the Division of Crops and Pastures; Pretoria, Transvaal. Received May 27, 1958.

The only varieties grown in the Union of South Agfrica.

248411. CP 58/203. Gunson Seeds, Johannesburg.

248412. CP 58/204. Highveld Region, Potchefstroom.

248413 and 248414.

From Morocco. Seeds presented by the Institut des Fruits et Agrumes Coloniaux, Rabat. Received May 27, 1958.

248413. CITRUS AURANTIFOLIA (Christm.) Swingle Rutaceae. **Lime.**

'Mauritius'. Mexican-like lime.

248414. CITRUS (hybrid).

'Zanzibar Lemon'. For rootstock studies related to the control of *Tristeza*.

248415 to 248475.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 29, 1958.

248415 to 248441. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

248415. Col. No. 21379. One km. north of Astrida, Ruanda-Urundi.

248416 to 248439. Rubona Station, INEAC, Rubona, Ruanda-Urundi.

248416. Col. No. 21381. 'Amagarika'.

248417. Col. No. 21382. 'Kigondo'.

248418. Col. No. 21383. 'Amabona'.

248419. Col. No. 21384. 'Kijamango'.

248420. Col. No. 21385. 'Amabyiga B'.

248421. Col. No. 21386. 'Nakihakari'.

248422. Col. No. 21387. 'Nakamonga'.

248423. Col. No. 21388. 'Ibibonobono'.

248424. Col. No. 21389. 'Igihunda'.

248425. Col. No. 21390. 'Nakibimba'.

248426. Col. No. 21391. 'Naburengeti'.

248427. Col. No. 21392. 'Amaliza'.

248428. Col. No. 21393. 'Bushago'.

248429. Col. No. 21394. 'Kizungu'.

248430. Col. No. 21395. 'Nakareba'.

248431. Col. No. 21396. 'Urukamba'.

248432. Col. No. 21397. 'Bonakazi'.

248433. Col. No. 21398. 'Naruvuzo'.

248434. Col. No. 21399. 'Bushara'.

248435. Col. No. 21400. 'Urubanda'.

248436. Col. No. 21401. 'Gashago'.

248437. Col. No. 21402. 'Ikigondo'.

248438. Col. No. 21403. 'Karunga'.

248439. Col. No. 21404. 'Inshoga A'.

248440. Col. No. 21410. Ten km. west of Kigali, Ruanda-Urundi.

248441. Col. No. 21452. Twenty-five km. northeast of Elizabethville.

248442. HIBISCUS ABELMOSCHUS L. Malvaceae.

Col. No. 21620. Near Kisautu. Perennial to 4 meters high.

248443. BRACHIARIA sp. Poaceae.

Col. No. 21359. Forty-five km. south of Bukavu, in Rizizi Valley. Elevation Urundi. Elevation 1,500 meters.

248444. CASSIA DIDYMOBOTRYA Fres. Caesalpiniaceae. **Senna.**

Col. No. 21407. Open slopes 5 km. east of Kigali, Ruanda-Urundi. Elevation 1,500 meters. Shrub to 6 meters high; flowers yellow.

248445. CASSIA sp.

Col. No. 21359. Forty-five km. south of Bukavu, in Rizizi Valley. Elevation 1,000 meters. Plants 1 meter high.

248446. CASSIA sp.

Col. No. 21452–A. Gravel pit, 25 km. northeast of Elizabethville.

248447. CAREX sp. Cyperaceae.

Col. No. 21431. Eighty km. west of Astrida, Ruanda-Urundi.

248448. CERATOTHECA sp. Pedaliaceae.

Col. No. 21618. Eighty km. from Leopoldville on Kisantu road. Low branched annual; flowers nearly white, 1.5 cm. long.

248449. CROTALARIA sp. Fabaceae.

Col. No. 21343. Five km. north of Bukavu. Seventy cm. high.

248450. CROTALARIA MUCRONATA Desv. **Striped crotalaria.**

Col. No. 21345. Grassy slopes 3 km. north of Bukavu. Elevation 1,500 meters.

248451. CROTALARIA sp.

Col. No. 21346. Five km. north of Bukavu. Elevation 1,625 meters. Perennial to 2 meters high.

248452. CROTALARIA sp.

Col. No. 21355. Forty-five km. south of Bukavu, Rizizi Valley. Elevation 1,000 meters. Annual; leaves narrow.

248453. CROTALARIA sp.

Col. No. 21362. Forty-five km. south of Bukavu, Ruzizi Valley. Branching annual.

248454. CROTALARIA sp.

Col. No. 21364. Moist meadows near Usambura, Ruanda-Urundi. Elevation 850 meters. Annual to 1 meter high; flowers yellow.

248455. CROTALARIA OCHROLEUCA G. Don

Col. No. 21366. Five km. from Usambura, Ruanda-Urundi. Elevation 1,200 meters. Annual; flowers pale green, purple striated.

248456. CROTALARIA sp.

Col. No. 21408. Savanna, five km. east of Kigali, Ruanda-Urundi. Elevation 1,500 meters. Annual to 5 dm. high.

248457. CROTALARIA sp.

Col. No. 21413. Ten km. west of Kigali, Ruanda-Urundi. Elevation 1,350 meters. Annual 1 meter high.

248458. CROTALARIA sp.

Col. No. 21416. Savanna, 20 km. south of Gabiro, Ruanda-Urundi. Elevation 1,500 meters. Annual to 1 meter high.

248459. CROTALARIA sp.

Col. No. 21419. Savanna 20 km. south of Babiro, Ruanda-Urundi. Elevation 1,500 meters. Plant to 80 cm. high; leaves narrow segmented.

248460. CROTALARIA sp.

Col. No. 21438. Forest area 80 km. west of Astrida, Ruanda-Urundi. Elevation 2,400 meters. Flowers yellow, in full spikes.

248461. CROTALARIA sp.

Col. No. 21442. Along Airport road 10 km. north of Elizabethville. Plant bushy; leaves small; fruits abundant.

248462. DESMODIUM TORTUOSUM (Sw.) DC. Fabaceae.

Col. No. 21360. Grass plains 45 km. south of Bukavu, Rizizi Valley. Elevation 960 meters. Annual.

248463. DESMODIUM sp.

Col. No. 21376. Twenty km. west of Astrida, Ruanda-Urundi. Elevation 1,800 meters. Woody perennial.

248464. ERIOSEMA PSORALIOIDES var. GRANDIFLORUM Staner & DeCraene Fabaceae.

Col No. 21357. In disturbed soil and grassy hills 20 km. south of Bukavu. Plant to 2 meters high; flowers yellow.

248465. GLYCINE JAVANICA L. Fabaceae.

Col. No. 21411. Five km. east of Kigali, Ruanda-Urundi. Elevation 1,500 meters.

248466. HIBISCUS sp. Malvaceae.

Col. No. 21424. Savanna near Bibale, Ruanda-Urundi. Elevation 1,400 meters. Shrub to 1 meter high; flowers red.

248467. INDIGOFERA HIRSUTA L. Fabaceae. **Hairy indigo.**

Col. No. 21350. Ruzizi plain 100 km. south of Bukavu. Elevation 960 meters.

248468. INDIGOFERA SUAVEOLENS Juab. & Spach.

Col. No. 21351. Ruzizi Valley, 100 km. south of Bukavu. Elevation 960 meters. Annual.

248469. INDIGOFERA sp.

Col. No. 21450. Gravel pit, scrub forest area, 25 km. northeast of Elizabethville. Elevation 1,200 meters. Shrub to 1 meter high.

248470. INDIGOFERA sp.

Col. No. 21456. Disturbed roadside soil about 25 km. southeast of Elizabethville. Shrub to 2 meters high.

248471. LUPINUS sp. Fabaceae.

Col. No. 21429. Twenty km. east of Shangugu, Ruanda-Urundi. Elevation 1,800 meters. Annual or biennial; flowers blue with white and yellow marks.

248472. SESAMUM RADIATUM Schum. Pedaliaceae.

Col. No. 21619. Eighty km. from Leopoldville, road to Kiantu. Plant to 1 meter high; flowers large, purple.

248473. SESAMUM sp.

Col. No. 21617. Seventy km. southwest of Leopoldville. Annual with narrow leaves. Elevation 500 meters.

248474. VIGNA LEBRUNII Baker f. Fabaceae.

Col. No. 21310. Lava field 50 km. south of Rutshuru. Vine; flowers yellow.

248475. VIGNA sp.

Col. No. 21455. Scrub forest about 25 km. southeast of Elizabethville. Elevation 1,200 meters. Vine; leaves 3-foliolate.

248476 to 248482.

From Portugal. Scions collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 2, 1958.

248476 to 248478. CERATONIA SILIQUA L. Caesalpiniaceae. **Carob.**

248476. Col. No. 16905. Near Tavira. Very vigorous and leafy 20-year-old tree from seed; fruits well; pods of fair size, sweet.

248477. Col. No. 16904. 'Canela'. Near Tavira. A standard variety, said to yield regularly; pods light, more slender and sweeter than 'Malata'.

248478. Col. No. 16903. 'Malata'. Tavira, near Seasonal Agricultural Demonstration Station. Large, gnarled old trees, pistillate only, with large fleshy pods, some borne on trunk. Pod size uneven. One of the grafted varieties with dark brown pods when ripe.

248479. CITRUS (hybrid). Rutaceae.

Col. No. 16906. 'Don Juan Orange'. Posto Agrario, Tavira. Midseason orange. Fruits ripen in May, structure and flavor very good; seeds few. A recent variety in Portugal.

248480 to 248482. PRUNUS AMYGDALUS Batsch. Amygdalaceae. **Almond.**

From Posto Agrario, Tavira.

248480. Col. No. 16908. 'Barrinho Miudo'. Regular producer; nuts hard, small, not very sweet.

248481. Col. No. 16909. 'Bonita de San Braz'. Nuts hard, small, sweet.

248482. Col. No. 16907. 'Duro Amarelo'. Nuts hard, small, sweet. Produces regularly; flowers in January and February.

248483 to 248489. ORYZA SATIVA L. Poaceae. Rice.

From China. Seeds presented by the Taiwan Agricultural Research Institute, Taipei, Taiwan. Received June 2, 1958.

Genetic stocks.

248483. 'Chia Lung Uy 242'.

248484. 'Fee La Fon'.

248485. 'Taichung Hung-Shou-Guo Zee'.

248486. 'Taichung Mon-Hwa-Shu'.

248487. 'Taipei Liu-Tuo Zee'.

248488. 'Taipei Shwangjan'.

248489. 'Taipei Woo-Co'.

248490. GOSSYPIUM (hybrid). Malvaceae. **Cotton.**

From the Sudan. Seeds presented by the Cotton Breeding Station, Shambat, North Khartoum. Received June 2, 1958.

20.4.106.

248491. CROTALARIA JUNCEA L. Fabaceae. **Sunn-hemp.**

From Brazil. Seeds collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 2, 1958.

Col. No. 18279. 'Guizo de Cascavel'. Santanesia, Barra de Pirahy, Rio de Janeiro. Plant in State of Sao Paulo used for green manure, and testing for paper pulp.

248492. CRATAEGUS AESTIVALIS (Walt.) Torr. & Gray. Malaceae. **Hawthorn.**

From the United States. Seeds presented by Lynn Lowrey, Houston, Texas. Received June 2, 1958.

Tree unarmed, to 35 feet high; leaves about one inch long; flowers white, in clusters; fruits fragrant, bright-red, juicy. Native from North Carolina to Florida.

248493. RUBUS sp. Rosaceae.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 2, 1958.

Col. No. 21436. Fifty-five km. west of Astrida, Ruanda Urundi. Rampant vine; fruits small black when ripe.

248494. CITRUS (hybrid). Rutaceae.

From Portugal. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 2, 1958.

Col. No. 16906. 'Don Juan'. Posto Agrario, Tavira. Midseason orange. Fruits structure and flavor good.

248495 to 248499. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

From Angola. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 2, 1958.

248495. Col. No. 21483. Roadside, 20 km. north of Sa da Bandeira. Elevation 1,850 meters.

248496. Col. No. 21484. Vacant lot, Sa da Bandeira. Elevation 1,650 meters.

248497. Col. No. 21503. Roadside near Vila Joao de Almgida. Elevation 1,650 meters.

248498. Col. No. 21572. Edge of field, 5 km. north of Nova Lisboa. Elevation 1,650 meters.

248499. Col. No. 21580. Seashore, Luanda.

248500 to 248502. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

From Union of South Africa. Seeds presented by Gunson Seeds, Kliprivier, Johannesburg, Transvaal. Received June 3, 1958.

248500. S.M.F.C.

248501. S.F.G.R.

248502. S.M.F.S.

248503 and 248504.

From Great Britain. Seeds presented by Wye College, Ashford, Kent, England. Received June 3, 1958.

248503. BETA VULGARIS L. Chenopodiaceae. **Sugar beet.**

'Detroit'—'Wye Cardinal'.

248504. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

'Victory'. High quality and resistance to "Green Back".

248505 and 248506. PASSIFLORA EDULIS Sims Passifloraceae. **Purple granadilla.**

From Australia. Plants presented by the Passion Fruit Nurseries, Victoria. Received June 4, 1958.

248505. Grafted plants. Fruits large.

248506. Grafted plants. Fruits medium.

248507. IPOMOEA NIL var. LIMBATA Bailey Convolvulaceae.

From Japan. Seeds presented by Shidai Nakayama, Miyazak Prefecture, Miyazak. Received June 4, 1958.

248508. COGNIAUXIA PODOLAENA Baill. Cucurbitaceae.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 5, 1958.

Col. No. 21042. Twenty-five km. southwest of Leopoldville. Flowers yellow; fruits to 15 cm. long and 7.5 cm. in diameter.

248509 to 248515. GLYCINE MAX (L.) Merr. Fabaceae. **Soybean.**

From Japan. Seeds presented by the Northern Utilization Research and Development Division, Peoria, Illinois. Received June 5, 1958.

248509. Chinese.

248510. 'Hagi-Dani'. From near Osaka.

248511. 'Hakuho'. From northern Honshu.

248512. 'Hokkaido Akita Variety No. 2'.

248513. 'Miyagi No. 2'.

248514. 'Nagano No. 2'.

248515. 'White Hilum Iwata Variety No. 2'.

248516 to 248522. ORYZA SATIVA L. Poaceae. **Rice.**

From Italy. Seeds presented by the Stazione Sperimentale di Riscoltura, Vercelli. Received June 6, 1958.

248516. 'Agortano'.

248517. 'Ballocco'.

248518. 'Baraggia'.

248519. 'Bertone'.

248520. 'Carnaroli'.

248521. 'Rover Cella'.

248522. R. 82.

248523 to 248549.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 6, 1958.

248523 and 248524. ELEUSINE CORACANA (L.) Gaertn. Poaceae. **Ragi.**

248523. Col. No. 21423. Near Gutari, Ruanda-Urundi.

248524. Col. No. 21432. Twenty-eight km. west of Astrida, Ruanda-Urundi. Elevation 1,800 meters.

248525. ERAGROSTIS sp. Poaceae.

Col. No. 21369. On open slopes near Mubuga, Ruanda-Urundi. Elevation 2,100 meters. Bunchgrass to 70 cm. high. Common on upper slopes of Ruanda and apparently not eaten by stock.

248526. ERAGROSTIS sp.

Col. No. 21440. Near airport, 10 km. north of Elizabethville. Caespitose; leaves to 15 cm. long, inflorescence to 40 cm. high.

248527. GLYCINE sp. Fabaceae.

Col. No. 21335. On lava field 15 km. west of Goma.

248528. GLYCINE sp.

Col. No. 21336. On lava field, 20 km. west of Goma. Elevation 1,500 meters.

248529. HUMULARIA sp. Fabaceae.

Col. No. 21443. Thirty km. northwest of Elizabethville, occasional in scrub forest. Stems to 35 cm. long.

248530. INDIGOFERA sp. Fabaceae.

Col. No. 21412. Fifteen km. west of Kigali, Ruanda-Urundi. Elevation 1,500 meters. Perennial to 2 meters high. Pods open but seeds retained.

248531. INDIGOFERA sp.

Col. No. 21425. Twenty km. south of Gabiro, Ruanda-Urundi. Elevation 1,500 meters. Shrubby plant at 20 cm. high.

248532. HACKELOCHLOA GRANULARIS (L.) Kuntze Poaceae.

Col. No. 21439. Twenty km. northwest of Elizabethville, in scrub forest, savanna. Plant 2 meters high.

248533. SETARIA LONGISETA Beauv. Poaceae.

Col. No. 21344. Grassy slopes 3 km. north of Bukavu. Elevation 1,625 meters.

248534. PENNISETUM SETOSUM (Sw.) L. Rich. Poaceae.

Col. No. 21353. Grassy slopes about 25 km. south of Bukavu. Elevation 1,625 meters. Plant about 80 cm. high.

248535 to 248539. SESAMUM ANGUSTIFOLIUM Engl. Pedaliaceae.

248535. Col. No. 21357. About 50 km. south of Bukavu, Ruzizi Valley. Elevation 960 meters. Plant upright; flowers purple.

248536. Col. No. 21358. About 50 km. south of Bukavu, Ruzizi Valley. Elevation 960 meters.

248537. Col. No. 21368. Grassy slopes about 5 km. east of Usambura, Ruanda-Urundi. Elevation 1,200 meters. Flowers purple.

248538. Col. No. 21414. Fifteen km. west of Kigali, Ruanda-Urundi. Elevation 1,500 meters. Plant to 1 meter high.

248539. Col. No. 21418. Ten km. south of Babiro, Ruanda-Urundi. Elevation 1,500 meters.

248540 to 248542. SESAMUM RADIATUM Schum.

248540. Col. No. 21375. 'Egonde'. Twenty km. southwest of Astrida, Ruanda-Urundi. Elevation 1,800 meters. Plant to 2 meters high; flowers large, purple; seeds brown and black.

248541. Col. No. 21377. Pasture 12 km. west of Astrida, Ruanda-Urundi. Elevation 1,650 meters. Plant to 1 meter high; flowers large.

248542. Col. No. 21439–A. In disturbed soils, near airport, 10 km. north of Elizabethville. Woody plant to 2 meters high; flowers large, purple.

248543. SESBANIA sp. Fabaceae.

Col. No. 21338. Kybuti, near Lake Kivu. Tree to 4 meters high; flowers yellow.

248544. SESBANIA sp.

Col. No. 21363. Near Lisambura, Ruanda-Urundi. Elevation 250 meters. Branching annual to 2 meters high.

248545. SESBANIA sp.

Col. No. 21380. Roadside one km. north of Astrida, Ruanda-Urundi. Seeds large.

248546. SETARIA SPHACELATA (Schum.) Stapf & Hubb. ex M. B. Moss Poaceae. **Millet.**

Col. No. 21406. Pasture lands 10 km. north of Hyanza, Ruanda-Urundi. Plant to 70 cm. high, closely cropped by cattle.

248547. SPOROBOLUS sp. Poaceae.

Col. No. 21441. In disturbed soil along road 20 km. northwest of Elizabethville. Elevation 1,350 meters. Annual, or possibly perennial.

248548. SORGHUM sp. Poaceae.

Col. No. 21317. Market at Bugarama, Ruanda-Urundi. Elevation 2,100 meters. Each spikelet contains two caryopses, indicating that both florets of spikelet are fertile.

248549. TRICHOLAENA REPENS (Willd.) Hitchc. Poaceae. **Natalgrass.**

Col. No. 21337. On sand, in lava flow, 15 km. west of Goma, north end of Lake Kivu. The 'Capim Gordura' of Brazil.

248550 to 248597. GAZANIA sp. Asteraceae.

From Great Britain. Plant presented by the Royal Horticultural Society Gardens, Wisley, Ripley, Woking, Surrey, England. Received June 9, 1958.

248550. 'Audrey'.
248551. 'Faith'.
248552. 'Gold'.
248553. 'Hadden's Gold'.
248554. 'Replens'.
248555. 'Rosemary'.
248556. 'Silver Gilt'.
248557. 'Tolls Orange'.
248558. 'Betty No. 593'.
248559. 'Bridget No. 543'.
248560. 'Christopher No. 527'.
248561. 'Frances No. 541'.
248562. 'Freddie No. 524'.
248563. 'Golden Flame No. 553'.
248564. 'Hazel No. 650'.
248565. 'Lilac Pink No. 559'.
248566. 'Red Torch No. 557'.
248567. 'Roger No. 592'.
248568. 'Sunbeam No. 540'.
248569. No. 509.
248570. No. 537.
248571. No. 679.
248572. No. 716. Buff.
248573. No. 718.
248574. 'Snugglebunny'. No. 723.
248575. 'Morris'. No. 728.
248576. 'Patrick'. No. 769.
248577. No. 770.
248578. 'Filigree'. No. 791.
248579. No. 792.

248580. 'Bernardette'. No. 794.
248581. No. 795.
248582. No. 796.
248583. No. 797.
248584. No. 798.
248585. No. 799.
248586. No. 800.
248587. No. 801.
248588. No. 802.
248589. 'Letitia'. No. 803.
248590. No. 804.
248591. No. 805.
248592. 'Vera'. No. 806.
248593. No. 808.
248594. 'Joan'. No. 809.
248595. 'George'. No. 810.
248596. No. 812.
248597. No. 913.

248598 to 248600.

From Cuba. Seeds presented by the Atkins Garden and Research Laboratory, Cienfuegos. Received June 9, 1958.

248598. EUPHORBIA NEREIFOLIA L. Euphorbiaceae. **Spurge.**

248599. POSOQUERIA MULTIFLORA Lem. Rubiaceae.

248600. PSEUDOBOMBAX ELLIPTICUM (H. B. K.) Dugand Bombacaceae.

248601 and 248602. SACCHARUM (hybrids). Poaceae. **Sugarcane.**

From Australia. Cuttings presented by the Colonial Sugar Refining Company, Sydney, New South Wales. Received June 9, 1958.

248601. 55 MQ 2488.

248602. 39 SN 3821.

248603. THEOBROMA CACAO L. Sterculiaceae. **Cacao.**

From Ecuador. Plants growing at the U.S. Plant Introduction Station, Miami, Florida. Numbered June 9, 1958.

Col. No. 90. Collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md., at Hacienda Casa Vinces, on Rio Quenedo, Vinces, Los Rios. Trees 40 to 60 years old. Fruits yellow, few-seeded, with thick shells.

248604. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

From Israel. Seeds presented by the Weizmann Institute of Science, Rehovot. Received June 9, 1958.

No. 196–Dwarf.

248605. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**

From the United States. From Seed Storage, United States Plant Introduction Station, Glenn Dale, Md. Numbered June 9, 1958.

For testing in Regional Plant Introduction Program.

248606 to 248622.

From Spain. Material collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 9, 1958.

248606. ARRHENATHERUM ELATIUS var. BULBOSUM (Willd.) Spenner Poaceae. **Tuber oatgrass.**

Col. No. 16979. Between Granada and Jaen. Elevation to 3,000 feet. Sparsely-leaved, tufted, perennial. (Plant.)

248607 to 248612. CERATONIA SILIQUA L. Caesalpiniaceae. **Carob.**

248607. Col. No. 16934. 'Valenciana'. Near Valencia. Old tree with good crop of long pods. Fruits mature in early August. (Cuttings.)

248608. Col. of No. 16935. Near Gata. Variety with heavy crop of pods to 9 inches long.

248609. Col. No. 16936. Between Gata and Alicante. Younger more vigorous plant with larger leaves than the others; pods to 7 inches long.

248610. Col. No. 16937. Between Gata and Alicante. Well-pruned, early-maturing tree with heavy crop of large, rather uniform pods.

248611. Col. No. 16947. 'Algarrobo'. Near Elche, Alicante Province. Mature tree; flowers perfect; pods uniformly long and rather slender, maturing early.

248612. Col. No. 16948. Elche, Alicante Province. Young tree of open type foliage; flowers perfect; pods uniformly long and straight, maturing early.

248613 to 248615. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

248613. Col. No. 16962. Near Guadix, Granada Province. Elevation 2,500 feet. Tufted, drought resistant, winter-spring perennial, forage grass, seeding freely in summer.

248614. Col. No. 16980. Between Granada and Jaen. Elevation 3,000 feet. Leafy, tufted, drought-resistant winter-spring forage grass.

248615. Col. No. 16990. Fifty km. south of Madrid. Drought-resistant, tufted, perennial on poor coarse soil.

248616 and 248617. PRUNUS AMYGDALUS BATSCH Amygdalaceae. **Almond.**

248616. Col. No. 16938. 'Marcona'. Jijona, Alicante Province. Common drought-resistant, round-seeded variety. (Cuttings.)

248617. Col. No. 16939. 'Pestanya'. Jijona, Alicante Province. Reported to be the most cold-resistant almond in area. (Cuttings.)

248618 and 248619. PYRUS COMMUNIS: L. Malaceae. **Common pear.**

Market in Murcia. (Seeds.)

248618. Col. No. 16951. 'Pera'. Fruit small.

248619. Col. No. 16952. Fruit small.

248620. CERATONIA SILIQUA L. Caesalpiniaceae. **Carob.**

(No field note.) (Seeds.)

248621 and 248622. DACTYLIS GLOMERATA var. HISPANICA (Roth) Duby Poaceae.

248621. Col. No. 16962. Near Guadix, Granada Province. Elevation 2,500 feet. Tufted, drought-resistant, winter-spring perennial forage grass; seeding freely in summer. (Seeds.)

248622. Col. No. 16990. Fifty km. south of Madrid. Drought-resistant, tufted, perennial on poor coarse soil. (Seeds.)

248623 to 248638.

From Pakistan. Seeds collected by P. F. Knowles, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 12, 1958.

248623 to 248634. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

248623 to 248630. Karachi Bazaar.

248623. Col. No. K688.

248624. Col. No. K689.

248625. Col. No. K690.

248626. Col. No. K691.

248627. Col. No. K692.

248628. Col. No. K693.

248629. Col. No. K694.

248630. Col. No. K695.

248631 to 248634. Tatta Bazaar.

248631. Col. No. K696.

248632. Col. No. K697.

248633. Col No. K698.

248634. Col. No. K699.

248635. HORDEUM VULGARE L. Poaceae. **Common barley.**

Col. No. K703. Tatta Bazaar.

248636 to 248638. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

Tatta Bazaar.

248636. Col. No. K700.

248637. Col. No. K701.

248638. Col No. K702.

248639 to 248662.

From the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 11, 1958.

248639. DALBERGIA sp. Fabaceae.

Col. No. 21374. Hills near Mubuga, Ruanda-Urundi. Elevation 2,100 meters. Tree to 4 meters high.

248640. MARKHAMIA sp. Bignoniaceae.

Col. No. 21333. Five km. north of Goma. Elevation 1,650 meters. Tree to 20 meters high; leaves odd-pinnate, large; flowers yellow; pods ligulate, to 75 cm. long.

248641. SANSEVIERIA sp. Liliaceae.

Col. No. 21447. Forty-three km. northeast of Elizabethville. Broad mottled leaves to 50 cm. long and 10 cm. broad.

248642. TEPHROSIA ERIOSEMOIDES Oliver Fabaceae.

Col. No. 21428. Twenty km. southeast of Biumba. Elevation 1,800 meters. Flowers brick-red.

248643. TEPHROSIA HECKMANNIANA Harma.

Col. No. 21415. Five km. east of Kigali, Runanda-Urundi. Elevation 1,500 meters. Flowers purple to rose.

248644 to 248655. TEPHROSIA VOGELII Hook. f.

248644. Col. No. 21340. West side of Lake Kivu, 80 km. north of Bukava. Elevation 1,500 meters. Spontaneous, not common at this elevation.

248645. Col. No. 21341. Near Kihindo, west side of Lake Kivu. Planted in coffee plantation shade.

248646. Col. No. 21342. West side of Lake Kivu. Elevation 1,750 meters. Abundant as spontaneous plant at this elevation.

248647. Col. No. 21370. Hills near Mubuga, Ruanda-Urundi. Elevation 1,950 meters.

248648. Col. No. 21372. Twenty km. southwest of Astrida, Ruanda-Urundi. Elevation 1,800 meters. White-flowered form growing with purple form.

248649. Col. No. 21373. Twenty km. southwest of Astrida, Ruanda-Urundi. Elevation 1,800 meters. Purple-flowered form.

248650. Col. No. 21377. Fifteen km. west of Astrida, Ruanda-Urundi. Elevation 1,800 meters.

248651. Col. No. 21405. Ten km. north of Nyanza, Ruanda-Urundi. Elevation 1,800 meters. Spontaneous in pastures.

248652. Col. No. 21426. Fifty km. northeast of Kegali, Ruanda-Urundi. Elevation 2,100 meters. Spontaneous.

248653. Col. No. 21427. Twenty-seven km. southeast of Biumba, Ruanda-Urundi. Elevation 1,800 meters.

248654. Col. No. 21433. Twenty-five km. west of Astrida, Ruanda-Urundi. Purple-flowered form growing with white-flowered form.

248655. Col. No. 21434. Twenty-five km. west of Astrida, Ruanda-Urundi. Elevation 1,900 meters. White-flowered form growing with purple-flowered form.

248656. TEPHROSIA sp.

Col. No. 21354. Twenty-five km. south of Bukava. Elevation 1,600 meters. Shrub to 50 cm. high; flowers lavender.

248657. TEPHROSIA sp.

Col. No. 21365. Roadside in hills in vicinity of Muramuye, Ruanda-Urundi. Elevation 1,900 meters; shrub to 1 meter high.

248658. TEPHROSIA sp.

Col. No. 21417. In savanna 20 km. south of Gabiro, Ruanda-Urundi. Elevation 1,500 meters. Perennial to 75 cm. high; flowers purple.

248659. THALICTRUM sp. Ranunculaceae.

Col. No. 21432. Seventy km. west of Astrida, Ruanda-Urundi. Elevation 2,400 meters. Perennial in forest area; seeds many, on long slender peduncles.

248660. (Undetermined.)

Col. No. 21334. On lava fields north of Lake Kivu, about 20 km. west of Goma. Elevation 1,600 meters. Plant attractive; leaves long, narrow.

248661. (Undetermined.) Fabaceae.

Col. No. 21430. Seventy-five km. west of Astrida, Ruanda-Urundi. Elevation 2,100 meters. Perennial; pods abundant on plant; seeds persistent in pods.

248662. (Undetermined.) Cucurbitaceae.

Col. No. 21454. Northern Rhodesia border with Belgian Congo. About 50 km. southeast of Elizabethville. Vine; fruits bright red, to 25 mm. long.

248663 to 248671. PERILLA FRUTESCENS (L.) Britton Menthaceae.

From India and the Union of Soviet Socialist Republics. Seeds collected or bred by the Industrial Crops Section, Crops Research Division, Beltsville, Md. Numbered June 16, 1958.

248663. Original seeds received in June, 1931 from the Regional Oil Plant Station, Kruglik, Northern Caucasus, U.S.S.R., under P.I. 92090.

248664. Indian type. Source unknown. Late maturing; seeds light brown.

248665 to 248671. Selections from a cross between P.I. 92090 and the Indian type.

248665. Lot No. 1. Medium early maturity; plants to 3.5 feet high; seeds dark.

248666. Not No. 2. Early maturity; plants to 3.5 feet high; seeds dark.

248667. Lot No. 3. Early maturity; plants to 3.5 feet high; seeds dark.

248668. Lot No. 4. Medium early maturity; plants to four feet high; seeds dark.

248669. Lot No. 5. Early maturity; plants to 3.5 feet high; seeds dark.

248670. Lot No. 6. Medium early maturity; plants to four feet high; seeds dark.

248671. Lot No. 7. Early maturity; plants to four feet high; seeds dark.

248672 to 248679.

From France. Plants presented by Marcel Lecoufle, Lecel Boissy-Saint-Leger. Received June 16, 1958.

248672. NEPENTHES AMPULLARIA Jack Nepenthaceae.

248673. NEPENTHES AMPULLARIA Jack 'Vittata'.

248674. NEPENTHES COCCINEA Mast.

248675. NEPENTHES KHASIANA Hook. f.

248676. NEPENTHES sp.

248677. NEPENTHES MIXTA var. SANGUINEA Mast.

248678. NEPENTHES PHYLLAMPHORA Willd.

248679. NEPENTHES RAFFLESIANA Jack.

248680 to 248723.

From Angola unless otherwise noted. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 16, 1958.

248680. ARISTIDA CILIATA Desf. Poaceae.

Col. No. 21583. Sandy soil, Lepington airport, Cape Province, Union of South Africa. Elevation 650 meters. 100 mm. annual rainfall. Bunchgrass to 60 cm. high; awns plumose, attractive.

248681 to 248684. South West Africa.

248681. ARISTIDA HOCHSTETERIANA G. Beck

Col. No. 21613. Semidesert 16 km. east of Usaros. For browsing.

248682 and 248683. ARISTIDA UNIPLUMIS Licht.

248682. Col. No. 21598. Dry plains 16 km. west of Wilhelmstal. Perennial bunchgrass for cattle feed.

248683. Col. No. 21604. Edge of desert, 32 km. west of Usakos. Elevation 1,100 meters. Annual rainfall less than 100 mm. Perennial bunchgrass for cattle feed.

248684. ARISTIDA sp.

Col. No. 21585. Sandy desert, Keelmanshoop airport. Elevation 1,350 meters. Dry area, 100 mm. rain annually. Bunchgrass to 50 cm. high; browsed by cattle.

248685. CROTALARIA sp. Fabaceae.

Col. No. 21563. Scrub forest 20 km. north of Sa da Bandeira. Elevation 1,800 meters. Perennial to 60 cm. high. Looks like fair forage.

248686. CROTALARIA sp.

Col. No. 21510. Scrub forest 25 km. southeast of Sa da Bandeira. Elevation 1,600 meters. Semiprostrate, annual or biennial; pods many.

248687. CROTALARIA sp.

Col. No. 21520. Along Nene River 10 km. west Huila. Elevation 1,700 meters. Plant to 35 cm. high in dense, caespitose bunches.

248688. CROTALARIA sp.

Col. No. 21538. Scrub forest 40 km. north of Caconda. Elevation 1,700 meters. Erect biennial or perennial, to 34 cm. high.

248689. CROTALARIA sp.

Col. No. 21542. Sandy soil, scrub forest, near Olivenca, Nova Angola. Elevation 1,200 meters. Biennial or perennial, to 40 cm. high.

248690. CROTALARIA sp.

Col. No. 21543. Twenty km. north of Olivenca, Nova Angola. Elevation 1,400 meters. Annual to 40 cm. high.

248691. CROTALARIA sp.

Col. No. 21564. Roadside 15 km. north of Nova Lisboa. Elevation 1,500 meters. Annual to 2 meters high; flowers yellow and red, attractive.

248692. CROTALARIA sp.

Col. No. 21579. Scrub forest 50 km. northwest of Nova Lisboa. Annual to 50 cm. high; leaves unifoliolate.

248693. CROTALARIA sp.

Col. No. 21612. Grassy savanna, 64 km. north of Windhoek, South West Africa. Elevation 1,500 meters. Annual rain 50 cm. Annual, plant dead with pods on it.

248694. CROTALARIA sp.

Col. No. 21616. Eighty km. southwest of Leopoldville, Belgian Congo. Annual; leaves simple.

248695. CYNODON sp. Poaceae.

Col. No. 21563. Sandy roadside 5 km. north of Nova Lisboa. Elevation 1,650 meters.

248696. DESMODIUM sp. Fabaceae.

Col. No. 21512. Vila Joao de Almeida. Elevation 1,400 meters. Plant to 3 meters high; foliage abundant.

248697. GOSSYPIUM BARBADENSE L. Malvaceae. **Sea-island cotton.**

Col. No. 21568. Rocky hillside 5 km. north west of Nova Lisbon. Elevation 1,700 meters. Shrub to 75 cm. high. No indication of cultivation. Fiber short.

248698. GOSSYPIUM TRIPHYLLUM (Harv. & Sond.) Hochr.

Col. No. 21596. Sandy semidesert. Three km. east of Wilhelmstal, South West Africa. Shrub to 60 cm. high; fiber strong.

248699. INDIGOFERA HIRSUTA L. Fabaceae. **Hairy indigo.**

Col. No. 21474. Wooded plain, Villa Arraga. Abundant fruiting racemes.

248700. INDIGOFERA sp.

Col. No. 21477. Vila Arriage. Elevation 1,200 meters. Shrub to 2 mm. high.

248701. INDIGOFERA sp.

Col. No. 21506. Sandy roadside, 25 km. southeast of Sa da Bandeira. Elevation 1,600 meters. Profuse prostrate plant.

248702. INDIGOFERA sp.

Col. No. 21518. Scrub forest 15 km. west of Huila. Elevation 1,700 meters. Annual to 30 cm. high; leaves pinnate.

248703. INDIGOFERA sp.

Col. No. 21522. Fifteen km. south of Sa da Bandeira. Elevation 1,925 meters. Shrub to 2 meters high; fruits abundant.

248704. INDIGOFERA sp.

Col. No. 21532. Roadside, 15 km. north of Sa da Bandeira. Elevation 1,800 meters. Prostrate annual.

248705. INDIGOFERA sp.

Col. No. 21536. Scrub forest, 40 km. north of Caconda. Elevation 1,700 meters. Caespitose biennial or perennial, to 40 cm. high.

248706. INDIGOFERA sp.

Col. No. 21540. Scrub forest near Cangolo, east of Sa da Bandeira. Elevation 1,450 meters. Woody base perennial, to 60 cm. high.

248707. INDIGOFERA sp.

Col. No. 21551. Scrub forest 25 km. south of Sa da Bandeira. Elevation 1,550 meters. Perennial to 50 cm. high.

248708 to 248710. SESAMUM CAPENSE Burm. f. Pedaliaceae.

248708. Col. No. 21593. Sandy roadside about 30 km. north of Windhoek, South West Africa. Elevation 1,350 meters. Forty to 50 cm. annual rainfall; plant 1 meter high.

248709. Col. No. 21594. Sixty-six km. west of Okahandja, South West Africa. Elevation 1,300 meters. Extremely arid region.

248710. Col. No. 21610. Sandy roadside, edge of desert, 80 km. west of Lisacos, South West Africa. Annual rainfall less than 100 mm.

248711. SESAMUM INDICUM L.

Col. No. 21478. Plain near Villa Arraga. Elevation 900 meters. Shrub to 3 meters high; flowers small.

248712 and 248713. SESAMUM SCHENCKII Aschers.

248712. Col. No. 21587. Granitic hills 13 km. south of Windhoek, South West Africa. Elevation 1,700 meters. Annual rainfall 50 cm. Plant to 1 meter high.

248713. Col. No. 21599. Otjawarougo-Okaputa road, South West Africa.

248714 and 248715. SESAMUM SCHINZIANUM Aschers.

248714. Col. No. 21592. Franken Farm, Outjo District, South West Africa. From herbarium specimen in Department of Agriculture, Windhoek.

248715. Col. No. 21603. Five miles west of Osakos, South West Africa. Elevation 960 meters. Annual rainfall less than 100 mm. Much grazed perennial; leaves entire.

248716 to 248718. SESBANIA CINERASCENS Welw. Fabaceae.

248716. Col. No. 21524. Five km. south of Sa da Bandeira. Elevation 1,700 meters. Shrub to 3 meters high.

248717. Col. No. 21525. Sa da Bandeira. Elevation 1,700 meters. Shrub to 4 meters high; cultivated as ornamental.

248718. Col. No. 21560. Sa da Bandeira. Elevation 1,500 meters.

248719. SETARIA APPENDICULATA (Hack.) Stapf Poaceae.

Col. No. 21607. On volcanic soil 20 miles east of Usalos, South West Africa. Elevation 1,000 meters. Plant to 30 cm. high. Looks good for forage.

248720. PENNISETUM SPICATUM (L.) Willd. Poaceae. **Pearl millet.**

Col. No. 21517. 'Massango'. Field 15 km. east of Sa da Bandeira. Annual grass with heads to 10 by 2 cm. Seeds are ground and used in a non-alcoholic drink called 'Blunga'. A beer called 'Makau' is made from fermented whole seed.

248721 and 248722. SYLITRA BIFLORA E. Mey. Fabaceae.

248721. Col. No. 21597. Desert about 2 miles east of Wilhelmstal, South West Africa. Elevation 1,200 meters. Small perennial.

248722. Col. No. 21611. Semidesert, 10 miles west of Wilhelmstal, Elevation, 1,300 meters. Small plant in grassy savanna.

248723. ZORNIA DIPHYLLA (L.) Pers. Fabaceae.

Col. No. 21549. Roadside weed in scrub forest 20 km. north of Vila Paiva Coceceiro. Elevation 1,200 meters. Perennial to 15 cm. high; flowers yellow.

248724 to 248730.

From Ethiopia. Presented by the Jimma Agricultural Technical School, Jimma. Received June 17, 1958.

248724. GLADIOLUS sp. Iridaceae.

(Corms.)

248725. LILIUM sp. Liliaceae.

Lot A. (Bulbs.)

248726. LILIUM sp.

Lot B. (Bulbs.)

248727. LILIUM sp.

Red. (Seeds.)

248728. CANNA INDICA L. Cannaceae.

Yellow. (Seeds.)

248729 and 248730. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

248729. Sel. I S. (Seeds.)

248730. Sel. 3 H. (Seeds.)

248731 to 248733. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. **Sweetpotato.**

From Peru. Tubers collected by Gustavo de la Torre, Lima. Received June 18, 1958.

From Market.

248731. No. 1. 'Chancleta Blanca'. Stalk blackberry-colored; leaves green, fan-shaped; tuber large and irregular; flesh yellow to orange. Used as a source of starch.

248732. No. 2. 'Amarillo'. Used as a source of starch.

248733. No. 3. 'Morado'. Skin black-strawberry color.

248734 to 248738.

From Spain. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 19, 1958.

248734. CERATONIA SILIQUA L. Caesalpiniaceae. **Carob.**

Col. No. 16949. 'Algarroba'. Elche, Alicante.

248735 to 248737. PRUNUS AMYGDALUS Batsch Amygdalaceae. **Almond.**

248735. Col. No. 16938. 'Marcona'.

248736. Col. No. 16939. 'Pestana'.

248737. Col. No. 16940. 'Comuna'. Jijona, Alicante Province. Large flat nut.

248738. PRUNUS sp.

Col. No. 16950. Market, Murcia. Fruits small, like a cross between an apricot and plum.

248739 and 248740. RHEUM RHAPONTICUM L. Polygonaceae. **Common rhubarb.**

From the Netherlands. Fruits presented by the Institute of Horticultural Plant Breeding, Wageningen. Received June 20, 1958.

248739. 'Goliath'.

248740. 'Queen Victoria'.

248741. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

From Colombia. Seed collected by the Vegetables and Ornamentals Research Branch, Beltsville, Md. Received June 20, 1958.

Rain-resistant strain.

248742 to 248745. PRUNUS AMYGDALUS Batsch. Amygdalaceae. **Almond.**

From Portugal. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 1958.

From Posto Agragrio, Tavira.

248742. Col. No. 16907. 'Duro Amarelo'. Flowering January-February. Production normal.

248743. Col. No. 16908. 'Barrinho Mindo'. Late flowering. Production normal.

248744. Col. No. 16909. 'Bonita de San Braz'. Flowering January-February.

248745. Col. No. 16910. 'Coco Mindo'. Sotavento Province. Flowering January-February. Production light to normal.

248746 to 248752.

From the Island of Crete. Collected by H. S. Gentry, agricultural explorer, New Crops Research Division, Beltsville, Md. Received June 23, 1958.

Material cuttings unless otherwise noted.

248746 to 248749. CERATONIA SILIQUA L. Caesalpiniaceae. **Carob.**

Collected June 13–16, 1958.

248746. Col. No. 17020. 'Liatichi'. Elous. Local variety with short thick pods of high sugar content, maturing in August. Bears regularly and well.

248747. Col. No. 17021. 'Liatichi'. Elous. Mature tree of singular form; foliage at ends of long bare branches bearing heavy crop of thick pods.

248748. Col. No.17022. 'Liatichi'. Elous. Cuttings from two younger trees.

248749. Col. No. 17023. 'Dopia Chini'. St. Nicholas. Cretan variety with long slender pods, with less sugar than 'Liatichi'.

248750. CITRUS SINENSIS (L) Osbeck Rutaceae. **Sweet orange.**

Col. No. 17010. 'Lainata'. Near Cania. Old local variety. Fruits bright orange, ovate, ripening in spring, but holding well on the trees through May and June.

248751. NERIUM OLEANDER L. Apocynaceae. **Oleander.**

Col. No. 17000. Canynon, Potamous Amari. Elevation 2,000 feet. Unusually bright-pink flowers.

248752. CERATONIA SILIQUA L. Caesalpiniaceae. **Carob.**

Col. No. 17021. Elous. (Seeds.)

248753 to 248770.

From India. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 23, 1958.

248753 and 248754. ALLIUM CEPA L. Liliaceae. **Onion.**

248753. Col. No. K82. Kanakamamidi Village, west of Hyderabad.

248754. Col. No. K93. Chebella Village, west of Hyderabad.

248755 to 248768. ARACHIS HYPOGEA L. Fabaceae. **Common peanut.**

248755 to 248757. Vekarabad Village, west of Hyderabad.

248755. Col. No. K122. 'Vilayata Palli'.

248756. Col. No. K123.

248757. Col. No. K124.

248758. Col. No. K139. Mominpeth Village west of Hyderabad.

248759 and 248760. Palamakur Village, 27 miles southwest of Hyderabad.

248759. Col. No. K170.

248760. Col. No. K171.

248761 to 248768. Himayatsager Station, near Hyderabad.

248761. Col. No. K254. 'Vilayati alu'; 'Veru Senaga'.

248762. Col. No. K255.

248763. Col. No. K256.

248764. Col. No. K257.

248765. Col. No. K258.

248766. Col. No. K259.

248767. Col. No. K260.

248768. Col. No. K261.

248769. Col. No. K 77. Kanakamamidi Village, west of Hyderabad.

248769 and 248770. BRASSICA NIGRA (L.) Koch Brassicaceae. **Black mustard.**

248770. Col. No. K152. Mutanghi Village, west of Hyderabad.

248771 to 248776.

From South West Africa, unless otherwise noted. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 24, 1958.

248771. ASPARAGUS sp. Convalariaceae.

Col. No. 21485. Spiny vine in scrub forest near Sa da Bandeira, Angola. Elevation 1,800 meters.

248772. ASPARAGUS sp.

Col. No. 21486. Plateau, 10 km. west of Sa da Bandeira, Angola. Elevation 1,950 meters. Wiry, spiny, vine; fruits small, red.

248773. ASPARAGUS sp.

Col. No. 21605. Edge of desert, 8 km. west of Usakos. Elevation 960 meters. Annual rainfall 100 mm. Semishrub to 50 cm. high, not spiny.

248774 and 248775. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

248774. Col. No. 21590. 'Summa'. Dry rocky hills about 16 km. south of Windhoek. Elevation 1,900 meters. Fruit about 10 cm. in diameter, globose; pulp bitter.

248775. Col. No. 21608. Semidesert, about 15 miles east of Kanbib. Elevation about 1,300 meters. Fruits globose about 10 cm. in diameter, bitter.

248776. VITIS BAINESII Hook. Vitaceae.

Col. No. 21609. Rocky canyon, 46 km. east of Usakos. Stem thickened to 70 cm. in diameter.

248777. MUSA sp.

From Greece. Plants collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received June 24, 1958.

Col. No. 17024. Near St. Nicolas, Isle of Crete. Plant to 7 feet high; trunk thick; fruit small but good quality.

248778. CUCUMIS SATIVUS L. Cucurbitaceae. **Cucumber.**

From Iran. Seeds presented by the United States Operations Mission, Teheran. Received June 24, 1958.

248779. PRUNUS ARMENIACA L. Amygdalaceae. **Apricot.**

From the United States. Tree growing at the U.S. Plant Introduction Station, Chico, California. Numbered June 25, 1958.

J–3–1. A selection from P. I. 121466. Fruit 4.5 inches in circumference, somewhat flattened, with a deep suture which has a tendency to split; skin yellow; flesh firm, cling type. A reliable producer.

248780 to 248786.

From South America. Seeds collected by O. E. White, Charlottesville, Va. Received June 25, 1958.

248780. ANNONA CHERIMOLA Mill. Annonaceae. **Cherimoya.**

From Quito, Ecuador.

248781. CANTUA sp. Polemoniaceae.

Near La Paz, Bolivia.

248782. COLLIGUAJA INTEGERRIMA Gill & Hook. Euphorbiaceae.

Near Volcan, Chile.

248783. CYLANTHERA PEDATA (L.) Schrad. Cucurbitaceae.

'Pepino'. From Medellin, Colombia.

248784. EPHEDRA sp. Gnetaceae.

248785. HIPPEASTRUM sp. Armyllidaceae.

248786. SISYRINCHIUM sp. Iridaceae.

248787 to 248792. PHASEOLUS LUNATUS L. Fabaceae. **Lima bean.**

From Jamaica. Seeds presented by the Institute of Jamaica, Kingston. Received June 25, 1958.

248787. 'Full-Belly'. Sugar bean. Market, Kingston.

248788. Sugar bean. Tower Hill, St. Andrew.

248789. Sugar bean. Private garden, Hagley Park Road, St. Andrew.

248790. Butter bean. Private garden, Norwood Ave., St. Andrew.

248791. Market, Kingston.

248792. Sugar bean. Garden, Troy.

248793 to 248991.

From India. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch Crops Research Division, Beltsville, Md. Received June 26, 1958.

Collected April 13 and 14, 1958.

248793 to 248880. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

248793 to 248798. Himatnagar Village, west of Hyderabad.

248793. Col. No. K42.

248794. Col. No. K43.

248795. Col. No. K44.

248796. Col. No. K45.

248797. Col. No. K46.

248798. Col. No. K47.

248799 to 248801. Mangalaram Village, west of Hyderabad.

248799. Col. No. K54.

248800. Col. No. K55.

248801. Col. No. K56.

248802 to 248808. Kanakamamidi Village, west of Hyderabad.

248802. Col. No. K68.

248803. Col. No. K69.

248804. Col. No. K70.

248805. Col. No. K71.

248806. Col. No. K72.

248807. Col. No. K73.

248808. Col. No. K74.

248809 to 248812. Chebella Village, west of Hyderabad.

248809. Col. No. K83.

248810. Col. No. K84.

248811. Col. No. K85.

248812. Col. No. K86.

248813. Col. No. K94.

248813 to 248816. Aloor Village, west of Hyderabad.

248814. Col. No. K95.

248815. Col. No. K96.

248816. Col. No. K97.

248817 to 248822. Kusuma Vekarabad Village, west of Hyderabad.

248817. Col. No. K105.

248818. Col. No. K106.

248819. Col. No. K107.

248820. Col. No. K108.

248821. Col. No. K109.

248822. Col. No. K110.

248823 and 248824. Mominpeth Village, west of Hyderabad.

248823. Col. No. K129.

248824. Col. No. K130.

248825 to 248829. Muthangi Village, west of Hyderabad.

248825. Col. No. K144.

248826. Col. No. K145.

248827. Col. No. K146.

248828. Col. No. K147.

248829. Col. No. K148.

248830 to 248836. Palamakur Village, 27 miles southwest of Hyderabad.

248830. Col. No. K153.

248831. Col. No. K154.

248832. Col. No. K155.

248833. Col. No. K156.

248834. Col. No. K157.

248835. Col. No. K158.

248836. Col. No. K159.

248837 to 248843. Shadnagar Village, 40 miles southwest of Hyderabad.

248837. Col. No. K173.

248838. Col. No. K174.

248839. Col. No. K175.

248840. Col. No. K176.

248841. Col. No. K177.

248842. Col. No. K178.

248843. Col. No. K179.

248844. Col. No. K195. Ramachandrapur Village, 10 miles north of Shadnagar.

248845 and 248846. Mehdipur Village, 10 miles north of Shadnagar.

248845. Col. No. K198.

248846. Col. No. K199.

248847 to 248880. Kusuma, Himayat Sagar Station, near Hyderabad.

248847. Col. No. K201.

248848. Col. No. K202.

248849. Col. No. K203.

248850. Col. No. K204.

248851. Col. No. K205.

248852. Col. No. K206.

248853. Col. No. K207.

248854. Col. No. K208.

248855. Col. No. K209.

248856. Col. No. K210.

248857. Col. No. K211.

248858. Col. No. K212.

248859. Col. No. K213.

248860. Col. No. K214.

248861. Col. No. K215.

248862. Col. No. K216.

248863. Col. No. K217.

248864. Col. No. K218.

248865. Col. No. K219.

248866. Col. No. K220.

248867. Col. No. K221.
248868. Col. No. K222.
248869. Col. No. K223.
248870. Col. No. K224.
248871. Col. No. K225.
248872. Col. No. K226.
248873. Col. No. K227.
248874. Col. No. K228.
248875. Col. No. K229.
248876. Col. No. K230.
248877. Col. No. K231.
248878. Col. No. K232.
248879. Col. No. K233.
248880. Col. No. K234.

248881. ELEUSINE CORACANA (L.) Gaertn. Poaceae.
Col. No. K81. Kanakamamidi Village, west of Hyderabad.

248882 to 248894. GUIZOTIA ABYSSINICA (L. f.) Cass. Asteraceae.

248882 Col. No. K66. Managalaram Village, west of Hyderabad.

248883. Col. No. K78. Kanakamamidi Village, west of Hyderabad.

248884 to 248886. Chebella Village, west of Hyderabad.

248884. Col. No. K90.

248885. Col. No. K91.

248886. Col. No. K92.

248887 and 248888. Aloor Village, west of Hyderabad.

248887. Col. No. K101.

248888. Col. No. K102.

248889 and 248890. Gaddi Nuvvulu, Vekarabad Village, west of Hyderabad.

248889. Col. No. K120.

248890. Col. No. K121.

248891 and 248892. Nominpeth Village, west of Hyderabad.

248891. Col. No. K140.

248892. Col. No. K141.

248893. Col. No. 197. Ramachandrapur Village, 10 miles north of Shadnagar, west of Hyderabad.

248894. Col. No. K200. Mehdipur Village, 10 miles north of Shadnagar, west of Hyderabad.

248895 to 248901. HIBISCUS CANNABINUS L. Malvaceae. **Kenaf.**

248895 and 248896. Kanakamamidi Village, west of Hyderabad.

248895. Col. No. K79.

248896. Col. No. K80.

248897. Col. No. K125. Vekarabad Village, west of Hyderabad.

248898 and 248899. Nominpeth Village, west of Hyderabad.

248898. Col. No. K142.

248899. Col. No. K143.

248900. Col. No. K172. Palamakur Village, 27 miles southwest of Hyderabad.

248901. Col. No. K194. Shadnagar Village, 40 miles southwest of Hyderabad.

248902 to 248925. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

248902. Col. No. K65. Mangalaram Village, west of Hyerabad.

248903. Col. No. K89. Chebella Village, west of Hyderabad.

248904 to 248906. Vekarabad Village, west of Hyderabad.

248904. Col. No. K117.

248905. Col. No. K118.

248906. Col. No. K119.

248907 and 248908. Nominpeth Village, west of Hyderabad.

248907. Col. No. K137. Aviselu.

248908. Col. No. K138.

248909 to 248911. Muthangi Village, west of Hyderabad.

248909. Col. No. K149.

248910. Col. No. K150.

248911. Col. No. K151.

248912 to 248915. Shadnagar Village, 40 miles southwest of Hyderabad.

248912. Col. No. K190.

248913. Col. No. K191.

248914. Col. No. K192.

248915. Col. No. K193.

248916 to 248925. Himayat Sagar Station near Hyderabad.

248916. Col. No. K244.

248917. Col. No. K245.

248918. Col. No. K246.

248919. Col. No. K247.

248920. Col. No. K248.

248921. Col. No. K249.

248922. Col. No. K250.

248923. Col. No. K251.

248924. Col. No. K252.

248925. Col. No. K253.

248926 to 248970. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

248926 to 248930. Himatnagar Village, west of Hyderabad.

248926. Col. No. K48.

248927. Col. No. K49.

248928. Col. No. K50.

248929. Col. No. K51.

248930. Col. No. K52.

248931 to 248933. Mangalaram Village, west of Hyderabad.

248931. Col. No. K57.

248932. Col. No. K58.

248933. Col. No. K59.

248934. Col. No. K75. Kanakamamidi Village, west of Hyderabad.

248935. Col. No. K87. Chebella Village, west of Hyderabad.

248936 and 248937. Aloor Village, west of Hyderabad.

248936. Col. No. K98.

248937. Col. No. K99.

248938 to 248943. Vekarabad Village, west of Hyderabad.

248938. Col. No. K111.

248939. Col. No. K112.

248940. Col. No. K113.

248941. Col. No. K114.

248942. Col. No. K115.

248943. Col. No. K116.

248944 to 248947. Moninpeth Village, west of Hyderabad.

248944. Col. No. K131.

248945. Col. No. K132.

248946. Col. No. K133.

248947. Col. No. K134.

248948 to 248953. Palamakur Village, 27 miles southwest of Hyderabad.

248948. Col. No. K160.

248949. Col. No. K161.

248950. Col. No. K162.

248951. Col. No. K163.

248952. Col. No. K164.

248953. Col. No. K165.

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248954 to 248956. Shadnagar Village, 40 miles southwest of Hyderabad.

248954. Col. No. K180.

248955. Col. No. K181.

248956. Col. No. K182.

248957. Col. No. K183. Muthangi Village, west of Hyderabad.

248958 to 248961. Shadnagar Village, 40 miles southwest of Hyderabad.

248958. Col. No. K184.

248959. Col. No. K185.

248960. Col. No. K186.

248961. Col. No. K187.

248962 to 248970. Himayat Sagar Experimental Station near Hyderabad.

248962. Col. No. K235.

248963. Col. No. K236.

248964. Col. No. K237.

248965. Col. No. K238.

248966. Col. No. K239.

248967. Col. No. K240.

248968. Col. No. K241.

248969. Col. No. K242.

248970. Col. No. K243.

248971 to 248988. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

248971. Col. No. K53. Himatnagar Village, west of Hyderabad.

248972 to 248976. Mangalaram Village, west of Hyderabad.

248972. Col. No. K60.

248973. Col. No. K61.

248974. Col. No. K62.

248975. Col. No. K63.

248976. Col. No. K64.

248977. Col. No. K76. Kanakamamidi Village, west of Hyderabad.

248978. Col. No. K88. Chebella Village, west of Hyderabad.

248979. Col. No. K100. Aloor Village, west of Hyderabad.

248980 and 248981. Moninpeth Village, west of Hyderabad.

248980. Col. No. K135.

248981. Col. No. K136.

248971. Col. No. K53. Himatnagar Village, west of Hyderabad.

248982. Col. No. K166.

248983. Col. No. K167.

248984. Col. No. K168.

248985. Col. No. K169.

248986 and 248987. Shadnagar Village, 40 miles southwest of Hyderabad.

248986. Col. No. K188.

248987. Col. No. K189.

248988. Col. No. K196. Ramachandrapur Village, 10 miles north of Shadnagar.

248989. SORGHUM BICOLOR (L.) Moench Poaceae.

Col. No. K103. Aloor Village, west of Hyderabad.

248990 and 248991. TRITICUM DICOCCUM Schrank Poaceae. **Emmer.**

248990. Col. No. K104. Aloor Village, west of Hyderabad.

248991. Col. No. K126. 'Joad'. Vekarabad Village, west of Hyderabad.

248992 and 248993.

From Hong Kong. Seeds presented by the Gardens Division, Urban Services Department, Victoria, through E. A. Menninger, Stuart, Florida. Received June 30, 1958.

248992. GORDONIA AXILLARIS (Roxb.) Dietr. Theaceae.

248993. TUTCHERIA SPECTABILIS (Champ.) Dunn. Theaceae.

248994 and 248995. SACCHARUM (hybrids). Poaceae. **Sugarcane.**

From Australia. Cuttings presented by the Sugar Experiment Station, Brisbane, Queensland. Received June 30, 1958.

248994. Q63.

248995. Q70.

248996 to 249068.

From Nigeria. Seeds presented by the Regional Research Station, Ministry of Agriculture, Samaru, Zaria. Received June 30, 1958.

248996 to 249007. HIBISCUS ESCULENTUS L. Malvaceae. **Okra.**

248996. L559. 57–663. Late.

248997. L652. 57–668. Late.

248998. L781. 57–669. Late.

248999. L1122. 57–510. Late.

249000. L655. 57–474. Late.

249001. L932. 57–676. Late.

249002. L981. 57–508. Early.

249003. L665. 57–481. Early.

249004. L1096. 57–494. Early.

249005. L989. 57–507. Early.

249006. L1180. 57–512. Early.

249007. L1452. 57–519. Early.

249008 to 249010. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

249008. L1158. 57–482.

249009. L718. 57–479.

249010. L718. 57–478.

249011 and 249012. CUCURBITA MOSCHATA Duchesne ex Poir. Cucurbitaceae. **Cushaw.**

249011. L681. 57–449.

249012. L934. 57–467.

249013. CUCURBITA MAXIMA Duchesne **Squash.**

L773. 57–463.

249014. CUCURBITA PEPO L. **Pumpkin.**

L1334. 57–484.

249015. CUCURBITA sp.

L672. 57–447.

249016. CUCURBITA sp.

L779. 57–459.

249017. CUCURBITA sp.

L909. 57–461.

249018. CUCURBITA sp.

L1334. 57–487.

249019. CUCURBITA sp.

L1158. 57–480.

249020 to 249068. PHASEOLUS LUNATUS L. Fabaceae. **Lima bean.**

249020. L602.
249021. L602-a-1.
249022. L602-a-3.
249023. L602-a-4.
249024. L602-a-5.
249025. L602-b-2.
249026. L602-c.
249027. L602-d.
249028. L603.
249029. L603-7.
249030. L603-8.
249031. L603-9.
249032. L603-12.
249033. L603-a.
249034. L603-b-1.
249035. L603-b-2.
249036. L603-c.
249037. L609.
249038. L609-1.
249039. L609-a.
249040. L609-b.
249041. L612.
249042. L613.
249043. L613-1.
249044. L613-a.
249045. L615.
249046. L615-a.
249047. L617.
249048. L654.
249049. L818.
249050. L819.
249051. L820.
249052. L821.
249053. L823.
249054. L824.
249055. L825.
249056. L827.
249057. L828.
249058. L1033.
249059. L1034.
249060. L1035.
249061. L1036.
249062. L1037.
249063. L1038.
249064. L1040.
249065. L1160.
249066. L1475.
249067. 56-496.
249068. 56-499.

249069 to 249080. CEPHAELIS IPECACUANHA (Brot.) Rich. Rubiaceae. **Ipecac.**

From Nicaragua. Clones presented by the Servicio Tecnico Agricola de Nicaragua, Managua. Received July 1, 1958.

249069. No. 15.
249070. No. 20.
249071. No. 35.
249072. No. 37.
249073. No. 40.
249074. No. 42.
249075. No. 43.
249076. No. 45.
249077. No. 112.
249078. No. 113.
249079. No. 114.
249080. No. 120.

249081. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

From the Philippines. Seeds presented by Mamerto Sulit, Laguna. Received July 1, 1958.

249082 to 249084.

From the Belgian Congo. Seeds presented by the Institut National pour l'Etude Agronomique, Mulungu, Kivu. Received July 1, 1958.

249082. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

'Sangre del Christo'.

249083. COFFEA EUGENIOIDES S. Moore

249084. COFFEA KIVUENSIS Lebrun

249085 and 249086. ALLIUM CEPA L. Liliaceae. **Onion.**

From India. Collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 2, 1958.

Eighty-eight km. north of Ahwaz.

249085. Col. No. K856. (Bulbs.)

249086. Col. No. K856. (Seeds.)

249087 to 249113.

From Angola. Collected by Louis O. Williams and Norris W. Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Collected in April, 1958.

Material received as seed unless otherwise noted.

249087. ADIANTUM sp. Polypodiaceae. **Fern.**

Col. No. 21511. Sandstone, 15 km. west of Huila. Elevation 1,800 meters. Plant to 15 cm. high; attractive for rock gardens. (Plant.)

249088. ALOE sp. Liliaceae.

Col. No. 21526. Rocky hill 10 km. north of Humpata. Elevation 2,200 meters. Stems long; flowers scarlet-red.

249089. ALOE sp.

Col. No. 21527. Twenty km. north of Humpata. Elevation 2,300 meters. Flowers pale-red.

249090. ALOE sp.

Col. No. 21550. Scrub forest 25 km. south of Sa da Bandeira. Elevation 1,600 meters. Perennial, apparently sessile.

249091. ALOE sp.

Col. No. 21581. San Miguel Fortress, Luanda. Plant treelike, attractive.

249092. ANEMONE sp. Ranunculaceae.

Col. No. 21555. Scrub forest 10 km. north of Nova Lisboa. Elevation 1,800 meters. Leaves whorled; fruiting heads attractive.

249093. ANEMONE sp.

Col. No. 21556. Scrub forest 15 km. north of Nova Lisboa. Plant to 60 cm. high.

249094. CLEMATIS sp. Ranunculaceae.

Col. No. 21464. Scrub forest 20 km. north of Sa da Bandeira. Elevation 2,000 meters. Shrub to 1 meter high; foliage attractive.

249095. CLEMATIS COMMUTATA Kuntze

Col. No. 21502. Near Humpata. Elevation 2,300 meters. Shrub to 1 meter high; foliage grayish; flowers white about 3 cm. in diameter; fruits attractive.

249096. COMBRETUM sp. Combretaceae.

Col. No. 21475. Wooded plain near Vila Arriage. Elevation 1,000 meters. Shrub to 2 meters high; flowers in tight racemes, ornamental.

249097. DODONAEA sp. Sapindaceae.

Col. No. 21514. Near Huila. Elevation 1,600 meters. Shrub to 5 meters high. Leaves lanceolate; fruits reddish, abundant.

249098. EUPHORBIA sp. Euphorbiaceae.

Col. No. 21606. Canyon 30 km. southeast of Usakos. Succulent; stems to 1 cm. in diameter.

249099. HYPERICUM sp. Hypericaceae.

Col. No. 21507. Scrub forest near Jau. Elevation 1,700 meters. Plant small; leaves fleshy, four-ranked. (Tubers.)

249100. MUNDULEA SERICEA (Willd.) A. Chev. Fabaceae.

Col. No. 21614. Originally from Botanical Garden 8 km. from Pretoria, Transvaal. Elevation 1,500 meters. Shrub to 3 meters high.

249101. MYRSINE AFRICANA L. Myrsinaceae.

Col. No. 21505. Scrub forest near Jau. Elevation 1,700 meters. Shrub to 30 cm. high; berries red.

249102. DROOGMANSIA sp. Fabaceae.

Col. No. 21546. Roadside weed near Catata. Annual to 80 cm. high.

249103. PROTEA LATIFOLIA R. Br. Proteaceae.

Col. No. 21467. Twenty km. north of Sa da Bandeira. Elevation 3,000 meters. Tree or shrub to 5 meters high; flowers white.

249104. SARCOSTEMMA VIMINALE (L.) R. Br. Asclepiadaceae.

Col. No. 21595. Semidesert 5 km. north of Usakos. Succulent; stems round, to 75 cm. high.

249105. SOPUBIA ANGOLENSIS Engl. Scrophulariaceae.

Col. No. 21465. Ten km. north of Sa da Bandeira. Elevation 2,000 meters. Plant to 60 cm. high; flowers pink.

249106. TEPHROSIA CAPENSIS (Jacq.) Pers. Fabaceae.

Col. No. 21509. Twenty-five km. southeast of Sa da Bandeira. Plant to 50 cm. high; flowers orange to purple.

249107. TEPHROSIA GRANDIFLORA (Ait.) Pers.

Col. No. 21496. Rocky hills near Bimbe Experiment Station, 15 km. north of Humpata. Elevation 2,300 meters. Shrub to 2 meters high.

249108 and 249109. TEPHROSIA VOGELII Hook. f. Fabaceae.

249108. Col. No. 21541. White form. Thirty km. south of Vila Robert Williams. Elevation 1,800 meters.

249109. Col. No. 21575. 'Calembe'. In cornfield 45 km. northwest of Nova Lisboa. Elevation 1,600 meters.

249110. TEPHROSIA sp.

Col. No. 21473. Wooded plain near Vila Arriage. Elevation 1,000 meters. Shrub to 3 cm. high; flowers lavender.

249111. TEPHROSIA sp.

Col. No. 21554. Rocky slopes near Quipungo. Elevation 1,500 meters. Plants to 100 cm. high.

249112. TEPHROSIA sp.

Col. No. 21598. Semi-desert, 3 km. east of Wilhelmstal. Elevation 1,600 meters. Plant 40 cm. high.

249113. TEPHROSIA sp.

Col. No. 21602. Desert, 10 km. west of Usakos. Shrubby plants to 40 cm. high.

249114 to 249116.

From India. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md.

249114. AMMI COPTICUM L. Apiaceae.

Col. No. K128. Vekarabad Village, west of Hyderabad.

249115 and 249116. CORIANDRUM SATIVUM L. Apiaceae. **Coriander.**

249115. Col. No. K67. Mangalaram Village, west of Hyderabad.

249116. Col. No. K127. Vekarabad Village, west of Hyderabad.

249117 to 249121.

From Brazil. Seeds presented by Ethne McGehee, Sao Paulo. Received July 3, 1958.

249117. CASSIA sp. Caesalpiniaceae.

249118. TIBOUCHINA GRANULOSA (Desr.) Cogn. Melastomataceae. Purple.

249119. TIBOUCHINA REGNELLII Cogn.

249120. TIBOUCHINA SELLOWIANA Cogn.

249121. TIBOUCHINA sp.

Leaves large, velvety, with clusters of deep-purple blooms.

249122 to 249130.

From Greece. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 7, 1958.

249122. FRAGARIA (hybrid). Rosaceae. **Strawberry.**

Col. No. 17085. Simonopetra, Athos. Elevation 1,000 feet. Fruits red, small.

249123. MORUS RUBRA L. Moraceae. **Red mulberry.**

Col. No. 16999. Asomatos, Isle of Crete. Elevation 2,000 feet. Fruits unusually large.

249124. PRUNUS CERASUS L. Amygdalaceae. **Sour cherry.**

Col. No. 17053. San Dimitris, Mount Olympus. Elevation 2,800 feet. Spontaneous seedling; leaves large, dark green; fruit purplish-red.

249125. ILEX sp. Aquifoliaceae. **Holly.**

Col. No. 17071. Karya, Athos. Elevation 1,800 feet. Leaves dark green. (Cuttings.)

249126. LOTUS ULIGINOSUS Schkuhr Fabaceae. **Big trefoil.**

Col. No. 17100. Ierrissos, near Athos. Elevation 50 feet. Thick bushy perennial, decumbent to erect, in clonal colonies. (Plants.)

249127. MEDICAGO sp. Fabaceae.

Col. No. 17117. Pindos Mountains. Elevation 4,500 feet. Prostrate perennial forming mat on clay soil. Grazed by sheep. (Plants.)

249128. TRIFOLIUM sp. Fabaceae.

Col. No. 17108. Eighteen miles north of Ierissos along road to Arnaea. Diffuse, white-flowered, erect herb growing in thick meadow. (Plants.)

249129. (Undetermined.)

Col. No. 17102. Ierissos by Athos. Elevation 50 feet. Very strong runner; forms a tight sod on moist sand. (Stolons.)

249130. IRIS ATHOA Foster Iridaceae.

Col. No. 17093. Athos Mountains. Elevation 2,000 feet. Plants scattered on dry, open slopes.

249131. CARTHAMUS LANATUS L. Asteraceae.

From Pakistan. Seed presented by the Royal Botanic Garden, Edinburgh, Scotland. Received July 8, 1958.

Collected near main Attock-Peshawar road, east of Akora, Pakistan.

249132 to 249134. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

From India. Seed presented by the Oilseed Specialist, Coimbatore. Received July 8, 1958.

249132. TMV. 1.

249133. TMV. 2.

249134. TMV. 3.

249135. IPOMOEA CAIRICA (L.) Sweet Convolvulaceae.

From Argentina. Seed presented by the Direccion General de Sanidad Vegetal, Buenos Aires. Received July 8, 1958.

SD 58–78.

249136 to 249141.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received July 8, 1958.

249136. AERVA TOMENTOSA Forsk. Amaranthaceae.

No. W478. Carnavon, Western Australia.

249137. BROMUS MOLLIS L. Poaceae. **Soft chessgrass.**

No. W461. Perth, Western Australia.

249138. ENCHLYAENA TOMENTOSA R. Br. Chenopodiaceae.

No. C680. Central Australia.

249139. EULALIA FULVA (R. Br) Kuntze Poaceae. **Sugargrass.**

No. Q214. Queensland.

249140. PHALARIS X DAVIESII S. T. Blake Poaceae.

No. Q302. Brisbane, Queensland.

249141. STIPA FALCATA Hughes Poaceae.

No. N330. Trangie, New South Wales.

249142 to 249149.

From Portugal. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 9, 1958.

From Estacao de Milhoramento de Plantas, Elvas.

249142. AGROPYRON CRISTATUM (L.) Gaertn. Poaceae. **Crested wheatgrass.**

UMN 2606.

249143. AGROPYRON DESERTORUM (Fisch. ex Link) Schult. **Standard wheatgrass.**

UMN 2607.

249144. AGROPYRON ELONGATUM (Host) Beauv. **Tall wheatgrass.**

UMN 665.

249145. AGROPYRON INTERMEDIUM (Host) Beauv. **Intermediate wheatgrass.**

UMN 2040.

249146. AGROPYRON TRICHOPHORUM (Link) Richt. **Stiffhair wheatgrass.**

UMN 2608.

249147. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

No. 8047.

249148. PSORALEA BITUMINOSA L. Fabaceae. **Scurf-pea.**

No. 857.

249149. SANGUISORBA MINOR Scop. Rosaceae. **Small burnet.**

No. 8090.

249150 to 249206.

From Brazil and Argentina. Seeds collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 10, 1958.

Material received from Brazil unless otherwise noted.

249150. ARCHONTOPHOENIX sp. Phoenicaceae.

Col. No. 18505. Instituto de Botanico, Sao Paulo. Three to 30 feet high; trunk straight, columnar; fruits in clusters, reddish when ripe.

249151. ARECASTRUM ROMANZOFFIANUM (Chem.) Becc. Phoenicaceae. **Pindo palm.**

Col. No. 19014. Facultad de Agronomia y Veterinaria, Buenos Aires, Argentina.

249152. BUTIA CAPITATA var. ODORATA (Barb.-Rodr.) Becc. Phoenicaceae. **Palm.**

Col. No. 18957. Osorio, Rio Grande do Sul. Elevation 65 feet. Tree to 12 feet high; fruits yellowish, fragrant; edible.

249153 and 249154. BUTIA CAPITATA (Mart.) Becc. **Palm.**

249153. Col. No. 18977. Near Porto Alegre, Rio Grande do Sul.

Tree to 12 feet high; fruit pale yellow, in large clusters; pulp edible.

249154. Col. No. 19012. Plant Exploration and Introduction, Ministry of Agriculture, Buenos Aires, Argentina. Small palm.

249155. BUTIA CAPITATA var. ODORATA (Barb.-Rodr.) Becc. **Palm.**

Col. No. 19096. Botanical Garden, Rio de Janeiro. Tree to 12 feet high; fruits edible.

249156. BUTIA CAPITATA (Mart.) Becc. **Palm.**

Col. No. 19097. Botanical Garden, Rio de Janeiro. Small palm; Fruit pale yellow, edible.

249157 and 249158. JOANNESIA PRINCEPS Vell. Euphorbiaceae.

249157. Col. No. 18283. 'Anda-assu'. Botanical Garden, Rio de Janeiro.

Tree to 90 feet high; suitable for reforestation.

249158. Col. No. 18701. 'Anda-assu'. Rio Clara, Sao Paulo.

249159. PHOENIX ROEBELENII O'Brien Phoenicaceae. **Palm.**

Col. No. 18965. Porto Alegre, Rio Grande do Sul. Elevation 65 feet. Tree to nine feet high.

249160. RAPHIA PEDUNCULATA Beauv. Phoenicaceae. **Palm.**

Col. No. 18699. Fazenda Elysia, Campinas, Sao Paulo. Tree to 40 feet high.

249161. TRITHRINAX BRASILIENSIS Mart. Phoenicaceae. **Palm.**

Col. No. 19098. 'Carandai'. Botanical Garden, Rio de Janeiro. Tree to 12 feet high; fruits clustered, yellow.

249162. ARAUCARIA ANGUSTIFOLIA (Bertol.) Kuntze Pinaceae.

Col. No. 18570. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 3,500 feet. Tree to 70 feet high.

249163. ARISTOLOCHIA GIGANTEA Mart. & Zucc. Aristolochiaceae.

Col. No. 18446. 'Papo de Peron'. Instituto Agronomico, Campinas, Sao Paulo. Elevation 1,300 feet. Flowers large, mottled purple to brown.

249164. ARISTOLOCHIA ELEGANS Masters **Calicoflower.**

Col. No. 18893. 'Orelha de Elephante'. Rio Novo, Corupa, Santa Catharina. Elevation 1,000 feet. Climber; flowers large, mottled brown.

249165. BANISTERIA sp. Malpighiaceae.

Col. No. 18540. Alta da Serra, Parana, Sao Paulo. Woody climber; flowers yellowish.

249166. BLECHNUM sp. Polypodiaceae.

Col. No. 18769. Piraquara, Parana. Elevation 3,500 feet. Fruiting stems erect, to 18 inches high.

249167. CAMOENSIA MAXIMA Welw. Fabaceae.

Col. No. 18025. Botanical Garden, Rio de Janeiro. Foliage dense, dark; flowers white.

249168. CASSIA JAVANICA L. Caesalpiniaceae. **Senna.**

Col. No. 18469. Instituto Agronomico, Campinas, Sao Paulo. Tree to 30 feet high; crown dense; flowers pinkish-white.

249169. CLUSIA sp. Guttiferae.

Col. No. 18745. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Low, wide-spreading shrub or small tree.

249170. ERIOCAULON MAGNIFICUM Ruhl. Eriocaulaceae.

Col. No. 18945. Osorio, Rio Grande do Sul. Elevation 35 feet. Stems slender, to 18 inches high; flowering head white, 0.5 inch in diameter.

249171. ERYTHRINA sp. Fabaceae.

Col. No. 19099. Botanical Garden, Rio de Janeiro. Tree to 12 feet high; seeds reddish-pink.

249172. GARDENIA THUNBERGII L. f. Rubiaceae.

Col. No. 18208. Botanical Garden, Rio de Janeiro. Shrub to 6 feet high; flowers white.

249173. GUNNERA MANICATA Linden Halorrhagidaceae. **Great gunnera.**

Col. No. 18959. Boca da Serra, Rio Grande do Sul. Elevation 3,000 feet. Rare plant; leaves 6 feet wide.

249174. PITCAIRNIA ROEZLII E. Morr. Bromeliaceae.

Col. No. 18514. Instituto de Botanico, Sao Paulo. Herb to 15 inches high; flowers deep pink.

249175. TABEBUIA CHRYSOTRICHA Standley Bignoniaceae.

Col. No. 18465. 'Ipe Amarelho'. Instituto Agronomico, Campinas, Sao Paulo. Medium size tree; flowers yellow.

249176. TABEBUIA IMPETIGINOSA Standley

Col. No. 18466. 'Ipe Raxo'. Instituto Agronomico, Campinas, Sao Paulo. Tree to 50 feet high; flowers deep pink, in terminal clusters.

249177 and 249178. BEGONIA × ANGULARIS Raddi Begoniaceae.

249177. Col. No. 18144. Botanical Garden, Rio de Janeiro. Plant to eight feet high, in deep shade.

249178. Col. No. 18150. Botanical Garden, Rio de Janeiro. Plant slightly straggly, to five feet high; flowers deep purplish.

249179. BEGONIA ARBORESCENS Raddi

Col. No. 18146. Deep shade, Botanical Garden, Rio de Janeiro. Plant woody, to eight feet high; stems erect, greenish.

249180. BEGONIA BRADEII Irmscher

Col. No. 18511A. Institutio de Botanico, Sao Paulo. Plant to four feet high; flowers almost white.

249181. BEGONIA RUBRAPILOSA A. DC.

Col. No. 18951. Swamp land, Fazenda do Arroyo, Osorio, Rio Grande do Sul. Elevation 35 feet. Plant to 15 inches high.

249182. BEGONIA sp.

Col. No. 18515. Instituto de Botanico, Sao Paulo. Plant to six feet high; leaves rusty brown on underside.

249183. BEGONIA sp.

Col. No. 18430. Broklyn-Paulista, Sao Paulo.

249184. BEGONIA sp.

Col. No. 18510. Instituto de Botanico, Sao Paulo. Plant to five feet high; leaves dark green.

249185. BEGONIA sp.

Col. No. 18520. Instituto de Botanico, Sao Paulo. Plant to three feet high; flowers white.

249186. BEGONIA sp.

Col. No. 18738. State of Parana. Plant to 16 inches high; leaves bright green, purplish brown underneath; flowers white.

249187. BEGONIA sp.

Col. No. 18757. Foot of Serra do Mar, Parana. Elevation 3,500 feet. Herb to 12 inches high; flowers pinkish.

249188. BEGONIA sp.

Col. No. 18805. Piraquara, Serra do Mar, Parana. Elevation 3,000 feet.

249189. BEGONIA sp.

Col. No. 18815. Cuatro Barros, foot of Serra do Mar, Parana. Elevation 3,000 feet. Plant to 6 feet high; inflorescence reddish-pink.

249190. BEGONIA sp.

Col. No. 18816. Base of Serra do Mar, Parana. Elevation 3,000 feet. Plant to 4 feet high; flowers white.

249191. BEGONIA sp.

Col. No. 18817. Cuadro Barros, foot of Serra do Mar. Elevation 3,000 feet. Plant wide-spreading to 5 feet high; leaves large, deep green above and rusty-brown beneath.

249192. BEGONIA sp.

Col. No. 18832. Near Curitiba, Parana. Elevation 3,000 feet. Plant 2.5 feet high; flowers white.

249193. BEGONIA sp.

Col. No. 18835. (No field note.)

249194. BEGONIA sp.

Col. No. 18851. Corupa, Santa Catharina. Elevation 1,600 feet. Plant to four feet high.

249195. BEGONIA sp.

Col. No. 18859. Corupa, Santa Catharina. Elevation 1,600 feet. Plant to four feet high; flowers white.

249196. BEGONIA sp.

Col. No. 18859. Rio Paulo, Corupa, Santa Catharina. Elevation 1,600 feet. Plant to five feet high; leaves purplish-red beneath.

249197. BEGONIA sp.

Col. No. 18910. Riberao do Rancho, Corupa, Santa Catharina. Plant to four feet high.

249198. BEGONIA sp.

Col. No. 18917. Corupa, Santa Catharina. Elevation 200 feet. Plant two feet high; flowers terminal.

249199. BEGONIA sp.

Col. No. 18960. Above Taquara, Rio Grande do Sul. Elevation 1,600 feet. Plant to six feet high; inflorescence deep pink.

249200. BEGONIA sp.

Col. No. 18980. Porto Alegre, Rio Grande do Sul. Plant to 16 inches high; flowers pink.

249201. GREVILLEA sp. Proteaceae.

Col. No. 18481. Instituto Agronomico, Campinas, Sao Paulo. Wide-spreading shrub to 10 feet high; flowers reddish-pink.

249202. RHYNCHOSIA PHASEOLOIDES (Sw.) DC. Fabaceae.

Col. No. 18449. Instituto Agronomico, Campinas, Sao Paulo. Herbaceous plant with red and black seeds.

249203. JUSSIAEA CAPAROSA Cambess. Onagraceae.

Col. No. 18946. Fazenda do Arroyo, Osorio, Rio Grande do Sul. Elevation 35 feet. Shrub to 6 feet high; flowers yellow.

249204. JUSSIAEA LONGIFOLIA DC.

Col. No. 18756. Serra do Mar, Parana. Elevation 3,300 feet. Herb to 4 feet high; flowers yellow.

249205 and 249206. JUSSIAEA SERICEA Cambess.

Col. No. 18755. Near Curitiba, Parana. Herb to 3 feet high; flowers yellow.

249205. Col. No. 18755. Near Curitiba, Parana. Herb to 3 feet high; flowers yellow.

249206. Col. No. 18763. Pirquara, Serra do Mar, Parana. Elevation 3,600 feet. Straggly herb to 2.5 feet high; leaves gray, small.

249207. MORUS ALBA L. Moraceae. **White mulberry.**

From Greece. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 11, 1958.

Col. No. 17094. Simonopetra, Athos. Elevation 1,000 feet. Fruit sweet, white.

249208 and 249209. CYDONIA OBLONGA Mill. Malaceae. **Quince.**

From Greece. Cuttings presented by Salonika University Farm, Salonika. Received July 14, 1958.

249208. 'Giant'.

249209. 'Meliforme'.

249210. ABUTILON STRIATUM Dicks. Malvaceae.

From Great Britain. Cuttings presented by the Royal Botanic Gardens, Kew, Richmond, Surrey, England. Received July 14, 1958.

249211 to 249231.

From India. Seeds presented by the Soil Conservation Advisor, New Delhi. Received July 15, 1958.

Localities given are sources of material.

249211 to 249216. DICHANTHIUM ANNULATUM (Forsk.) Stapf Poaceae. **Palwan.**

249211. No. 1. Economic Botanist, Government of Bombay, Poona.

249212. No. 2. Racecourse, Rajkot.

249213. No. 3. Bungalow 8, Rajkot.

249214. No. 4. Racecourse, Rajkot.

249215. No. 5. Dhrol Reserve grassland.

249216. No. 6. Kuvadva Village. (Rajkot taluka).

248217. EREMOPOGAN FOEVEOLATIUS (Del.) Strapf. Poaceae. Racecourse, Rajkot.

249218. CHRYSOPOGON MONTANUS Trin. Poaceae. Dhrol Reserve grassland.

249219. ISCHAEMUM PILOSUM (Klein ex Willd.) Wight Poaceae. Racecourse, Rajkot.

249220. CENCHRUS CILIARIS L. Poaceae. **Buffelgrass.**

249221. SEHIMA NERVOSUM (Rottl.) Stapf Poaceae.

249222 to 24931. From Poona, Bombay.

249222. ACACIA sp. Mimosaceae.
'Koo-Babul'.

249223. ALYICARPUS RUGOSUS (Willd.) DC. Fabaceae.

249224. DICHANTHIUM ANNULATUM (Forsk.) Stapf Poaceae. **Palwan.**

249225. CENTROSEMA PUBESCENS Benth. Fabaceae.

249226. CHLORIS GAYANA Kunth Poaceae. **Rhodesgrass.**

249227. INDIGOFERA GLANDULOSA Wendl. Fabaceae. **Indigo.**

249228. PANICUM ANTIDOTALE Retz. Poaceae. **Blue panicgrass.**

249229. CENCHRUS CILIARIS L. Poaceae. **Buffelgrass.**

249230. PENNISETUM POLYSTACHYON (L.) Schult. Poaceae.

249231. SESBANIA SESBAN (L.) Merr. Fabaceae.
'Shevari'.

249232 to 249284. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

From Hungary. Seeds presented by the Collectio Agrobotanicus Institute, Agriculturae Experimentalis, Tapioszele. Received July 16, 1958.

249232. No. 135. 'Ausztraliai Olajlen'.

249233. No. 91. 'Beta No. 201'.

249234. No. 152. 'Chaurra Olajlen'.

249235. No. 75. 'Crown Canada'.

249236. No. 119. 'Daehnfeldt'.

249237. No. 120. 'Daehnfeldt 369'.

249238. No. 45. 'Edkendorfi'.

249239. No. 52. 'Fivel'.

249240. No. 53. 'Formosa'.

249241. No. 111. 'Galego'.

249242. No. 154. 'Guerandi'.

249243. No. 132. 'Hendi'.

249244. No. 223. 'Hindi'.

249245. No. 54. 'Hollandia'.

249246. No. 168. 'Horal'.

249247. No. 95. 'Hosszuhati N'.

249248. No. 94. 'Hosszuhati Tajfajta'.

249249. No. 100. 'Hosszuhati 7016'.

249250. No. 101. 'Hosszuhati 7022'.

249251. No. 103. 'Hosszuhati 8401'.

249252. No. 200. 'H 200. 'H 39/a La Plata'.

249253. No. 199. 'H 39/b La Plata'.

249254. No. 187. 'Karnobat 3'.

249255. No. 188. 'Karnobat 4'.

249256. No. 189. 'Karnobat 5'.

249257. No. 190. 'Karnobat 6'.

249258. No. 224. 'Kokroz'.

249259. No. 63. 'Kriisztina'.

249260. No. 157. 'La Previzion'.

249261. No. 82. 'Leucanthum'.

249262. No. 47. 'Lusatia'.

249263. No. 48. 'Mathis'.

249264. No. 79. 'Mapun'.

249265. No. 49. 'Martin'.

249266. No. 207. 'Martoni I.6'.

249267. No. 228. 'Mussel'.

249268. No. 55. 'Percello'.

249269. No. 23. 'Pernau'.

249270. No. 112. 'Primavera'.

249271. No. 160. 'Publicion Facultad'.

249272. No. 226. 'Racaciuni' × 'Giza'.

249273. No. 169. 'Record'.

249274. No. 57. 'Rmorandt'.

249275. No. 229. 'Saligny' × 'Hindi'.

249276. No. 71. 'Skot Rostlen'.

249277. No. 206. 'Soctoss Leuchte'.

249278. No. 113. 'Sziciliai Olajlen'.

249279. No. 85. 'Texala'.

249280. No. 86. 'Textil Flax'.

249281. No. 124. 'Torok 4'.

249282. No. 182. 'Torok 10'.

249283. No. 195. 'Torok 11'.

249284. No. 87. 'Triumph'.

249285 to 249419.

From Brazil and Argentina. Seeds collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 16, 1958.
Collected in Brazil unless otherwise noted.

249285. CISSUS sp. Vitaceae.
Col. No. 18646. Sao Paulo. Elevation 850 meters. Climber; fruits roundish, greenish-blue.

249286. DOLICHOS LABLAB L. Fabaceae. **Hyacinth-bean.**

Col. No. 18450. Instituto Agronomico, Campinas. Leaf veins dark purplish; flowers purplish-blue.

249287. IPOMOEA HEDERFOLIA L. Convolvulaceae. **Morning-glory.**

Col. No. 19086. Instituto Agronomico, Campinas.

249288. RUBUS sp. Rosaceae.

Col. No. 18814. Campinas, Serra do Mar, Parana. Elevation 950 meters. Fruit green-colored when ripe.

249289. ARDISIA CRENATA Sims Myrsinaceae.

Col. No. 18883. Riberao do Rancho, Corupa, Santa Catharina. Elevation 2,200 feet. Shrub to nine feet high; fruit reddish-pink.

249290. ASPIDOSPERMA POLYNEURON Muell.-Arg. Apocynaceae.

Col. No. 19019. Rio Clara, Sao Paulo. Timber tree to 100 feet high.

249291. BAUHINIA PRUINOSA Vogel. Caesalpiniaceae.

Col. No. 18936. Fazenda Arroyo, Osorio, Rio Grande do Sul. Wide-spreading shrub; flowers large, white.

249292. BAUHINIA sp.

Col. No. 19026. Ilhabella, Sao Paulo. Elevation 35 feet. Tree to 20 feet high; flowers white.

249293. BEGONIA sp. Begoniaceae.

Col. No. 18862. Rio Paulo, Corupa, Santa Catharina. Elevation 1,600 feet. Plant to five feet high; inflorescent deep pink.

249294. BLEPHAROCALYX TWEEDIEI Berg. Myrtaceae.

Col. No. 18997. 'Anacahuita'. Facultad de Agronomia y Veterinaria, Buenos Aires, Argentina. Tree to 15 feet high; berries red.

249295. BROMELIA FASTUOSA Lindl. Bromeliaceae.

Col. No. 18937. 'Gravata'. Fazenda do Arroyo, Osorio, Rio Grande do Sul. Elevation 35 feet. Leaves dark green, to 5 feet long; fruits pale orange, edible.

249296. BUNCHOSIA ARMENIACA (Cav.) DC. Malpighiaceae.

Col. No. 18218. Botanical Garden, Rio de Janeiro. Slender shrub to 10 feet high.

249297. BUTIA YATAY (Mart.) Becc. Phoenicaceae. **Palm.**

Col. No. 19013. 'Yatay'. Ministry of Agriculture, Buenos Aires, Argentina. Tree to 30 feet high, said to be frost resistant.

249298. CAESALPINIA LEIOSTACHYA (Benth.) Ducke Caesalpiniaceae.

Col. No. 18309. Horto Florestal, Sao Paulo. Erect tree to 55 feet high; bark dark gray, with white patches.

249299. CAESALPINIA SPINOSA (Molina) O. Kuntze.

Col. No. 18999. 'Tara de Boliva'. Facultad de Agronomia y Veterinaria, Buenos Aires, Argentina. Small to medium-sized tree.

249300. CARAPA GUIANENSIS Aubl. Meliaceae. **Crabwood-tree.**

Col. No. 18169. Botanical Garden, Rio de Janeiro. Medium-sized to tall tree; seeds rich in oil.

249301. CASSIA RETICULATA Willd. Caesalpiniaceae. **Senna.**

Col. No. 18424. Horto Florestal, Sao Paulo. Medium size tree.

249302. CASSIA sp.

Col. No. 18792. 'Fedegoso'. Mandasara, Parana. Elevation 3,000 feet. Tree or shrub to 6 feet high; seed pods almost black.

249303. CASSIA sp.

Col. No. 18932. Corupa, Santa Catharina. Elevation 2,000 feet. Shrub to 15 feet high; foliage dense.

249304. CENTROSEMA PLUMIERI (Turp.) Benth. Fabaceae.

Col. No. 18154. Botanical Garden, Rio de Janeiro. Climber; flowers deep-purplish in center, margin creamy-white.

249305. COLA ACUMINATA (Beauv.) Schott & Endl. Sterculiaceae.

Col. No. 18181. Botanical Garden, Rio de Janeiro. Tree to 15 feet high; seeds dark purplish-brown when ripe.

249306. CORDIA GOELDIANA Huber Boraginaceae.

Col. No. 18281. 'Frei Jorge'. Botanical Garden, Rio de Janeiro. Tree to 12 feet high; fruits pale green; pulp edible.

249307. CORDYLINE RUBRA Hueg. Liliaceae.

Col. No. 18839. 'Bruantii'. Santa Catharina. Plant to 5 feet high; leaves dark green; margins purplish-red.

249308. COURSETIA VIRGATA DC. Fabaceae.

Col. No. 19000. Facultad de Agronomia y Veterinaria, Buenos Aires, Argentina. Shurb to 6 feet high; flowers yellow; pods dark brown. Seeds may be toxic.

249309. DATURA ARBOREA L. Solanaceae. **Floripondio.**

Col. No. 18504. Instituto de Botanica, Sao Paulo. Shurb to 8 feet high; flowers pinkish.

249310. DURANTA REPENS L. Verbenaceae. **Skyflower.**

Col. No. 18452. Instituto Agronomico, Campinas, Sao Paulo. Shrub to 10 feet high; flowers lilac-colored.

249311. ERYTHRINA CRISTA-GALLI L. Fabaceae. **Coraltree.**

Col. No. 18513. 'Corticeira'. Instituto de Botanico, Sao Paulo. Elevation 1,000 feet. Tree to 12 feet high, wide-spreading; flowers deep pink.

249312. ERYTHRINA FALCATA Benth. **Coraltree.**

Col. No. 18643. 'Mulungu Suina'. Sao Paulo. Elevation 2,600 feet. Shrub or small tree to 10 feet high; flowers orange-yellow to reddish, in large clusters.

249313. ERYTHRINA MULUNGU Mart.

Col. No. 18312. 'Suina Mulungu'. Horto Florestal, Sao Paulo. Elevation 3,000 feet. Tree to 60 feet high, erect; flowers orange-red, in large clusters.

249314 and 249315. ERYTHRINA SPECIOSA Andr. **Coraltree.**

249314. Col. No. 18477. 'Mulungu Suina'. Instituto Agronomico, Campinas, Sao Paulo. Tree to 12 feet high; flowers red, in terminal spikes.

249315. Col. No. 18637. Sao Paulo. Elevation 2,600 feet. Tree to 12 feet high; flowers bright scarlet.

249316. EUPLASSA INCANA I. M. Johnston Proteaceae.

Col. No. 18294. 'Carvalho Nacional'. Horto Florestal, Sao Paulo. Elevation 2,900 feet. Tree to 45 feet high; foliage rust-colored when new, turning dark green.

249317 and 249318. EUTERPE EDULIS Mart. Phoenicaceae. **Parapalm.**

249317. Col. No. 18313. 'Palmito Branco'. Horto Florestal, Sao Paulo. Elevation 2,800 feet. Tree to 20 feet high. Heart of palm is cooked as a vegetable and used in salad.

249318. Col. No. 18942. 'Jissara'. Fazenda do Arroyo, Osiorio, Rio Grande do Sul. Elevation 17 feet. Tree to 25 feet high.

249319 and 249320. GEONOMA SCHOTTIANA Mart. Phoenicaceae. **Palm.**

249319. Col. No. 18559. Alto da Serra, Paranapiacaba, Sao Paulo. Tree to eight feet high; fronds slender, slightly arcuate.

249320. Col. No. 18935. Fazenda do Arroyo, Osorio, Rio Grande do Sul. Elevation 17 feet. Tree to 12 feet high.

249321. GOURLIEA DECORTICANS Gillies Fabaceae.

Col. No. 18998. Facultad de Agronomia y Veterinaria, Buenos Aires, Argentina. Tree to 60 feet high; crown rounded.

249322 and 249323. GREVILLEA HILLIANA F. Muell. Proteaceae.

249322. Col. No. 19020. Rio Clara, Sao Paulo. Shrub or small tree.

249323. Col. No. 19064. Sao Paulo. Shrub to 12 feet high.

249324. HEVEA SPRUCEANA (Benth.) Muell.-Arg. Euphorbiaceae.

Col. No. 19093. 'Seringueira'. Botanical Garden, Rio de Janerio. Tree of medium size, yielding an inferior quality of Para rubber.

249325 and 249326. IPOMOEA HORSFALLIAE Hook. Convolvulaceae. **Morning glory.**

249325. Col. No. 19085. Instituto Agronomico, Campinas, Sao Paulo. Climber.

249326. Col. No. 19085A. Instituto Agronomico, Campinas, Sao Paulo.

249327. JUSSIAEA BULLATA Hass. Onagraceae.

Col. No. 18943. 'Minmana'. Osorio, Rio Grande do Sul. Elevation 35 feet. Plant to 4.5 feet high; flowers bright yellow, 4-merous; flowers throughout most of the year.

249328 and 249329. LICANIA TOMENTOSA Fritsch Amygdalaceae.

249328. Col. No. 18285. Botanical Garden, Rio de Janeiro. Tree to 70 feet high.

249329. Col. No. 18285A. Botanical Garden, Rio de Janeiro.

249330. LUCUMA PSAMMOPHILA var. XESTOPHYLLA Miq. Sapotaceae.

Col. No. 18210. Botanical Garden, Rio de Janeiro. Medium size tree; fruits globular, yellow; pulp edible.

249331. MAMMEA AMERICANA L. Clusiaceae. **Mamey.**

Col. No. 18280. 'Abrico do Para'. Botanical Garden, Rio de Janeiro. Tree to 50 feet high; seeds imbedded in a sweet, edible pulp.

249332. MIMOSA SCABRELLA Benth. Mimosaceae.

Col. No. 18290. 'Bracantinga'. Horto Florestal, Sao Paulo. Tree to 60 feet high.

249333. NECTANDRA PULCHRA Ekm. & O. C. Schmidt Lauraceae.

Col. No. 18291. 'Canela Parda'. Tree to 25 feet high; flowers creamy-white.

249334. NEOMARICA CAERULEA Sprague Iridaceae.

Col. No. 18553. 'Marica'. Forest, Alta da Serra, Paranapiacaba, Sao Paulo. Flowers lavender-blue, very ornamental.

249335. OCIMUM SELLOI Benth. Menthaceae.

Col. No. 18207. 'Alpavaga'. Botanical Garden, Rio de Janeiro. Wide-spreading shrub to 7 feet high; crushed leaves have a spicy odor.

249336. ORMOSIA ARBOREA (Vell.) Harms Fabaceae.

Col. No. 18275. 'Tento Grande'. Botanical Garden, Rio de Janeiro. Tree to 45 feet high; pods 1-seeded; seeds red and black.

249337. PANDANUS BONINENSIS Warb. Pandanaceae.

Col. No. 18163. Botanical Garden, Rio de Janeiro. Plants to 18 feet high; fruits partially salmon-pink when ripe.

249338. PASSIFLORA EDULIS Sims Passifloraceae. **Purple granadilla.**

Col. 18274. 'Maracuja'. Botanical Garden, Rio de Janeiro. Climber; flowers deep pink; fruit edible.

249339. PASSIFLORIA QUADRANGULARIS L. **Giant granadilla.**

Col. No. 18827. 'Maracuja Acu'. Cuatro Barras, foot of Serra do Mar, Parana. Elevation 3,000 feet. Fruits large, ovoid, yellowish; pulp sweet, edible, used in fruit juices.

249340. PASSIFLORA sp.

Col. No. 18828. 'Maracuja Preta'. Cuatro Barras, foot of Serra do Mar, Parana. Elevation 3,000 feet. Fruits dark purplish, globular.

249341. PASSIFLORA sp.

Col. No. 18829. 'Maracuya Amarelha'. Cuatro Barros, Serra do Mar, Parana. Elevation 3,000 feet. Fruits small, round, yellow; pulp edible.

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249342. PAULLINIA CUPANA Kunth ex H.B.K. Sapindaceae.

Col. No. 18175. 'Guarana'. Botanical Garden, Rio de Janeiro. Shrub to 6 feet high, becoming scandent.

249343. PLEOMELE FRAGRANS (L.) Salisb. Liliaceae.

Col. No. 18846. Corupa, Santa Catharina. Plant to 2 feet high; leaves light green, margin yellowish.

249344 to 249347. PSIDIUM LITTORALE Raddi Myrtaceae. **Strawberry guava.**

249344. Col. No. 18551. 'Araca'. Forest, Alta da Serra, Paranapiacaba, Sao Paulo. Shrub or small tree to 6 feet high; fruits yellowish, edible.

249345. Col. No. 18640. 'Araca'. Sao Paulo. Elevation 2,7000 feet. Shrub to 5 feet high; fruits yellowish to dark brown.

249346. Col. No. 18795. 'Araca do Campo'. Piraquara, Serra do Mar. Parana. Elevation 5,000 feet. Shrub to 5 feet high, wide-spreading.

249347. Col. No. 18801. 'Aracu'. Piraquara, Serra do Mar, Parana. Elevation 3,000 feet. Tree to 9 feet high; fruits yellow, edible.

249348. PSYCHOTRIA sp. Rubiaceae.

Col. No. 18601. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 4,000 feet. Shrub 2.5 feet high.

249349. PSYCHOTRIA sp.

Col. No. 18610. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 4,000 feet. Shrub to 6 feet high; fruits purplish-brown.

249350. PSYCHOTRIA sp.

Col. No. 18611. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 4,000 feet. Slender shrub to 5 feet high, in clumps; stems yellowish-green; fruits bluish when ripe.

249351. PSYCHOTRIA sp.

Col. No. 18612. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 4,000 feet. Shrub to 5 feet high; fruits dark brown.

249352. RAUVOLFIA REFLEXA Teijam & Binn. Apocynaceae. **Devilpepper.**

Col. No. 18162. Botanical Garden, Rio de Janeiro. Tree to 15 feet high; small amount of latex present; mature fruits purplish-blue.

249353. RAUVOLFIA TERNIFOLIA H. B. K. **Devilpepper.**

Col. No. 18143. Botanical Garden, Rio de Janeiro. Shrub to 10 feet high; branches wide-spreading; small amount of latex present; fruits globular, pale-reddish, lustrous when ripe. Said to contain an alkaloid.

249354. ROLLINIA sp. Annonaceae.

Col. No. 18698. 'Araticum'. Instituto Florestal Paulista, Rio Clara, Sao Paulo. Tree to 20 feet high; fruit sweet, edible.

249355. ROLLINIA MUCOSA (Jacq.) Baillon

Col. No. 18277. 'Biriba'. Botanical Garden, Rio de Janeiro. Tree small; fruits pale yellow; pulp white, edible.

249356. ROYSTONEA OLERACEA (Jacq.) O. F. Cook Phoenicaceae. **Royal Cuban palm.**

Col. No. 19100. 'Palmeira Real'. Botanical Garden, Rio de Janeiro. Tall, frequently planted street tree.

249357. SAPINDUS DIVARICATUS Willd. Sapindaceae.

Col. No. 18311. 'Sabao de Soldado'. Horto Florestal, Sao Paulo. Elevation 3,000 feet. Medium size tree; crown wide-spreading.

249358. SCHIZOLOBIUM PARAHYBUM (Vell.) Blake Caesalpiniaceae. **Bacurubu.**

Col. No. 18300. 'Guapuruvu'. Horto Florestal, Sao Paulo. Elevation 3,000 feet. Tree to 80 feet high; trunk greenish; bark smooth; flowers lustrous golden.

249359. SOLANUM sp. Solanaceae.

Col. No. 18138. Botanical Garden, Rio de Janeiro. Wide-spreading shrub to 10 feet high; flowers purplish-blue; fruits yellow.

249360. STEPHANOTIS FLORIBUNDA Brongn. Asclepiadaceae.

Col. No. 18456. 'Flor de Cera'. Instituto Agronomico, Campinas, Sao Paulo. Woody vine; flowers white, fragrant, waxy.

249361. STRELITZIA PARVIFOLIA Dryand. Musaceae.

Col. No. 18490. Instituto Agronomico, Campinas. Tree to 25 feet high; leaves to 5 feet long, arcuate.

249362. SYZYGIUM CUMINI (L.) Skeels Myrtaceae. **Jambolan.**

Col. No. 18164. 'Jambolao'. Botanical Garden, Rio de Janeiro. Medium-size tree; fruit edible.

249363. TECOMA HEPTAPHYLLA A. Rich. Bignoniaceae.

Col. No. 18301. 'Ioe Roxo'. Horto Florestal, Sao Paulo. Elevation 3,000 feet. Tree to 25 feet high; bark grayish, smooth; flowers pink to rose-purple.

249364. THEOBROMA GRANDIFLORA (Willd.) Schum. Sterculiaceae.

Col. No. 19090. 'Cupuassii'. Botanical Garden, Rio de Janeiro. Tree to 20 feet high; fruit to 10 inches long, ovoid, rusty-brown.

249365 and 249366. TIBOUCHINA ASPERA var. ASPERIMA Cogn. Melastomataceae.

249365. Col. No. 18952. Fazenda do Arroyo, Osorio, Rio Grande do Sul. Elevation 33 feet. Small shrub; flowers deep lilac-colored.

249366. Col. No. 18953. Fazenda do Arroyo, Osorio, Rio Grande do Sul. Shrub to 2.5 feet high; flowers lilac-colored.

249367. TIBOUCHINA BOLIVARENSIS Gleason

Col. No. 19046. Instituto Botanico, Sao Paulo.

249368. TIBOUCHINA CLINOPODIFOLIA Cogn.

Col. No. 18809. Piraquara, Serra do Mar, Parana. Elevation 3,000 feet. Scandent or creeping herb, to 16 inches high; flowers lilac-colored.

249369 to 249373. TIBOUCHINA GRANULOSA (Desr.) Cogn.

249369. Col. No. 18310. 'Quaresmeira'. Horto Florestal, Sao Paulo. Tree to 45 feet high; crown dense, rounded; flowers vivid purple mass, January to early March.

249370. Col. No. 18482. 'Quaresmeira'. Instituto Agronomico, Campinas. Tree to 30 feet high; flowers purplish.

249371. Col. No. 18483. 'Quaresmeira'. Instituto Agronomico, Campinas. Small to medium-sized tree; flowers lighter purple than P.I. 249370.

249372. Col. No. 18509. 'Quaresmeira'. Edge of Lagoon, Instituto de Botanica, Sao Paulo. Tree medium size; flowers purplish, in large clusters.

249373. Col. No. 18716. 'Quaresmeira Roxa'. Horto Florestal, Cantareira, Sao Paulo. Tree to 45 feet high; flowers clustered, deep purplish.

249374. TIBOUCHINA HOLOSERICEA Baill.

Col. No. 18979. Porto Alegre, Rio Grande do Sul. Elevation 17 feet. Wide-spreading shrub or small tree to 10 feet high; flowers purplish.

249375. TIBOUCHINA sp.

Col. No. 19048. Instituto Botanico, Sao Paulo.

249376 and 249377. TIBOUCHINA MARTIALIS Cogn.

249376. Col. No. 18785. Campinas Grande do Sul, Serra do Mar, Parana. Elevation 3,000 feet. Shrub to 12 inches high; stems round with small recurved spines; fruits light green.

249377. Col. No. 18786. Campinas Grande do Sul, Serra do Mar, Parana. Elevation 3,000 feet. Shrub to 3 feet high.

249378. TIBOUCHINA MULTICEPS Cogn.

Col. No. 18947. Fazenda do Arryo, Osorio Rio Grande do Sul. Elevation 17 feet. Shrub to 6 feet high; flowers deep lilac-colored.

249379 to 249383. TIBOUCHINA MUTABILIS Cogn.

249379. Col. No. 18557. Alto da Serra, Paranapidcaba, Sao Paulo. Tree to 30 feet high; flowers purple to white.

249380. Col. No. 18635. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 4,200 feet. Tree to 10 feet high, wide-spreading, flowers purplish to white.

249381. Col. No. 18647. 'Quaresmeira'. Chacara Rio Bonito, Sao Paulo. Elevation 2,600 feet. Shrub to 15 feet high; flowers white to rosy-pink.

249382. Col. No. 18726. Serra Sao Luiz, Parana. Elevation 3,300 feet. Shrub to 9 feet high; flowers white to purple.

249383. Col. No. 18800. Campininha, Piraquara, Parana. Elevation 3,000 feet. Shrub or small tree to 12 feet high; flowers white to lilac. Said to be frost-hardy.

249384. TIBOUCHINA URSINA Cogn.

Col. No. 18746. Pinhaes, near Curitiba, Parana. Elevation 3,000 feet. Herb to 18 inches high.

249385. TIBOUCHINA URVILLEANA Cogn.

Col. No. 19045. Instituto Botanico, Sao Paulo.

249386. TIBOUCHINA VIOLACEA Cogn.

Col. No. 18485. 'Quaresmeira'. Instituto Agronomico, Campinas, Sao Paulo. Shrub to 12 feet high; flowers light to deep pink.

249387 and 249388. TIBOUCHINA WEDDELLII Cogn.

249387. Col. No. 18741. Boraceia, Sao Paulo. Elevation 2,600 feet. Shrub to 12 feet high; flowers deep purple, ornamental.

249388. Col. No. 19049. Instituto Botanico, Sao Paulo.

249389. TIBOUCHINA sp.

Col. No. 18148. 'Quaresma'. Botanical Garden, Rio de Janeiro. Wide-spreading shrub to 8 feet high; flowers pale-purplish; ripe fruits light brown, pubescent.

249390. TIBOUCHINA sp.

Col. No. 18221. 'Quaresma'; 'Trebuchina'. Petropolis, Rio de Janeiro. Elevation 2,500 feet. Tree or shrub to 20 feet high; flowers light purple.

249391. TIBOUCHINA sp.

Col. No. 18550. 'Quaresmeira'. Alto da Serra, Paranapiacaba, Sao Paulo. Shrub to 12 feet high; flowers purple.

249392. TIBOUCHINA sp.

Col. No. 18567. 'Quaresmeira'. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 3,500 feet. Shrub to 4 feet high; flowers light purple.

249393. TIBOUCHINA sp.

Col. No. 18569. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 3,500 feet. Slender shrub to 6 feet high; flower calyx pinkish-red; fruits purplish-blue when mature.

249394. TIBOUCHINA sp.

Col. No. 18582. 'Quaresmeira'. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 5,000 feet. Shrub to 10 feet high; flowers large, purplish.

249395. TIBOUCHINA sp.

Col. No. 18602. 'Quaresmeira'. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 4,000 feet. Tree to 15 feet high; flowers large, deep purple.

249396. TIBOUCHINA sp.

Col. No. 18623. Serra da Bocaina, Sao Paulo. Elevation 5,200 feet. Shrub to 5 feet high; stems purplish-brown; leaves dark green, pubescent.

249397. TIBOUCHINA sp.

Col. No. 18632. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 3,500 feet. Tall shrub; flowers large, dark-purplish.

249398. TIBOUCHINA sp.

Col. No. 18636. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Tree to 15 feet high; flowers purplish.

249399. TIBOUCHINA sp.

Col. No. 18638. 'Quaresmeira Roxa'. Alta da Serra, Paranapiacaba, Sao Paulo. Elevation 2,600 feet. Tree to 15 feet high; flowers purplish.

249400. TIBOUCHINA sp.

Col. No. 18642. 'Quaresmeira Granulosa Roxa'. Sao Paulo. Elevation 2,600 feet. Tree to 25 feet high.

249401. TIBOUCHINA sp.

Col. No. 18719. Serra Sao Luiz, Parana. Elevation 3,300 feet. Shrub to 3 feet high; leaves very small; flowers purplish.

249402. TIBOUCHINA sp.

Col. No. 18723. Serra Sao Luiz, Parana. Elevation 3,400 feet. Shrub to 12 inches high; flowers deep lilac.

249403. TIBOUCHINA sp.

Col. No. 18734. Slope of Serra Sao Luiz, Parana. Elevation 3,300 feet. Shrub to 30 inches high; leaves small.

249404. TIBOUCHINA sp.

Col. No. 18737. Curitiba, Parana. Elevation 3,000 feet. Shrub to 24 inches high; flowers pale lavender.

249405. TIBOUCHINA sp.

Col. No. 18740. 'Quaresmeira'. Fazenda Bonita, Serra da Bocaina, Sao Paulo. Elevation 3,300 feet. Shrub or small tree; flowers lilac.

249406. TIBOUCHINA sp.

Col. No. 18742. 'Quaresmeira'. Serra da Bocaina, Sao Paulo. Elevation 3,400 feet. Shrub to 12 feet high; flowers purplish; fruits light brown; calyx large.

249407. TIBOUCHINA sp.

Col. No. 18743. Slopes of Serra da Bocaina, Sao Paulo. Small tree; flowers large, purplish.

249408. TIBOUCHINA sp.

Col. No. 18744. Slopes of Serra da Bocaina, Sao Paulo. Elevation 3,300 feet. Tall shrub; flowers purplish.

249409. TIBOUCHINA sp.

Col. No. 18790. Campinas Grande do Sul, Serra do Mar, Parana. Herb or subshrub to 18 inches high; stems and fruit covered with light brown pubescens; flowers purplish.

249410. TIBOUCHINA sp.

Col. No. 18918. Riberao do Rancho, Corupa, Santa Catharina. Elevation 1,900 feet. Straggly shrub to 6 feet high.

249411. TIBOUCHINA sp.

Col. No. 18919. 'Tinhorao'. Riberao do Rancho, Corupa, Santa Catharina. Elevation 2,200 feet. Tree to 20 feet high; flowers lilac.

249412. TIBOUCHINA sp.

Col. No. 18931. Riberao do Rancho, Santa Catharina. Tree to 12 feet high; flowers dark red.

249413. VITEX MONTEVIDENSIS Cham. Verbenaceae.

Col. No. 18555. 'Tarumao'. Alto da Serra, Paranapiacaba, Sao Paulo. Tree to 15 feet high; crown flat; fruits dark purplish.

249414. MOMORDICA CHARANTIA L. Cucurbitaceae. **Balsam-pear.**

Col. No. 18139. Botanical Garden, Rio de Janeiro. Climber; flowers yellow; fruits large, deep-yellow.

249415. (Undetermined.)

Col. No. 18554. Alta da Serra, Paranapiacaba, Sao Paulo. Small shrub; crown dense; leaves small, dark green; fruits small, pinkish-red when ripe.

249416. (Undetermined.)

Col. No. 18590. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 3,700 feet. Shrub; flowers purplish to pink.

249417. (Undetermined.)

Col. No. 18784. Aracatuba, Serra do Mar, Parana. Elevation 2,800 feet. Shrub to 30 inches high; fruits dark, almost black.

249418. (Undetermined.)

Col. No. 18819. 'Tomate do Japao'. Cuatro Barras, Serra do Mar, Parana. Elevation 2,800 feet. Wide-spreading bush to 8 feet high; fruits ovoid, deep pink, edible; seeds small, flat.

249419. TIBOUCHINA MUTABILIS Cogn. Melastomataceae.

Col. No. 18484.

249420. DUBOISIA HOPWOODII F. Muell. Solanaceae.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received July 21, 1958.

Collected in the Mt. Wege area in 1955. Received from the Northern Territory Herbarium, Alice Springs.

249421. DEGENERIA VITIENSIS I. W. Bail. & A. C. Sm. Degeneriaceae.

From Fiji. Seeds presented by the Department of Agriculture, Suva. Received July 21, 1958.

Grown at Naduna.

249422. GOSSYPIUM (hybrid). Malvaceae. **Cotton.**

From Colombia. Seeds presented by the Instituto Colombiano de Antropologia, Cartagena. Received July 22, 1958.

From the Cuna Indians, headwaters of Rio Arquia, Darien, Choco.

249423. MAHONIA JAPONICA Thunb. (DC.) Berberidaceae.

From Japan. Seeds presented by the Kojuen Nursery, Angyo. Received July 21, 1958.

'Hiiragi-nanten'.

249424 to 249525.

From Brazil. Seeds collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 22, 1958.

From the Botanical Garden, Rio de Janeiro, except where otherwise noted.

249424. ABROMA AUGUSTA L. f. Sterculiaceae.

Col. No. 18048. Tree or shrub to 10 feet high.

249425. ABRUS PRECATORIUS L. Fabaceae. **Rosarypea.**

Col. No. 18007. 'Jequiriti'. Woody climber.

249426. ADENANTHERA PAVONINA L. Mimosaceae. **Redbead.**

Col. No. 18004. 'Tento Carolina'. Tree to 36 feet high.

249427. ANNONA SQUAMOSA L. Annonaceae. **Sugar-apple.**

Col. No. 18051. 'Fruta del Conde'. Tree to 12 feet high.

249428. ANTHURIUM sp. Araceae.

Col. No. 18645. Chacara Rio Bonito, Sao Paulo. Elevation 850 feet.

249429. ARAUCARIA ANGUSTIFOLIA (Bertol.) Kuntze Pinaceae.

Col. No. 18487. 'Pinhero do Parana'. Instituto Agronomico, Campinas. Tree to 70 feet high.

249430. ARAUCARIA BIDWILLII Hook. **Bunya-bunya.**

Col. No. 18054. 'Bunia-Bunia'. Tall, robust tree.

249431. ARCHONTOPHOENIX ALEXANDRAE H. Wendl. & Drude Phoenicaceae. **Palm.**

Col. No. 18098. Tree to 55 feet high; fronds few.

249432. LOROMA CUNNINGHAMIANA (Wendl.) O. F. Cook Phoenicaceae.

Col. No. 18101. Tree to 25 feet high; trunk slender; crown open; fronds arcuate, few.

249433. ARECA CATECHU L. Phoenicaceae. **Betel palm.**

Col. No. 18091. 'Norz de Betel'. Slender palm to 54 feet high; trunk tapering.

249434. ARECA TRIANDRA Roxb. **Palm.**

Col. No. 18078. Tree to 20 feet high.

249435. ARECASTRUM ROMANZOFFIANUM (Cham.) Becc. Phoenicaceae. **Pindo palm.**

Col. No. 18076. 'Geriva'. Tree to 15 feet high; fronds arcuate.

249436. ARISTOLOCHIA BRASILIENSIS var. GALEATA (Mart. & Zucc.) Hoehne Aristolochiaceae.

Col. No. 18011. 'Sangue de Cristo'. Woody vine with reddish exudation from bark.

249437. ARISTOLOCHIA CYMBIFERA Mart. & Zucc.

Col. No. 18013. 'Jarrinha'. Woody vine; bark corky, grows best in shade.

249438. ARISTOLOCHIA GALEATE Mart. & Zucc.

Col. No. 18014. Thick woody vine.

249439. ARISTOLOCHIA GRANDIFLORA Sw. **Pelicanflower.**

Col. No. 18012. Woody vine.

249440. ARISTOLOCHIA TAGALA Cham.

Col. No. 18015. Slender, tangled vine.

249441. AVERRHOA BILIMBI L. Oxalidaceae. **Bilimbi.**

Col. No. 18024. Tree to 9 feet high.

249442. AVERRHOA CARAMBOLA L. **Carambola.**

Col. No. 18023. 'Carambola'. Tree to 12 feet high.

249443. BACTRIS MARAJA Mart. Phoenicaceae. **Palm.**

Col. No. 18090. 'Maraja'. Tree slender, to 22 feet high, armed.

249444. BROMELIA sp. Bromeliaceae.

Col. No. 18039. 'Gravata'. Epiphyte growing in shade among rocks.

249445. BUTIA CAPITATA Becc. Phoenicaceae. **Palm.**

Col. No. 18029. 'Butin'. Tree to 12 feet high.

249446 and 249447. CAESALPINIA PULCHERRIMA (L.) Swartz Caesalpiniaceae. **Flowerfence.**

249446. Col. No. 18073. 'Barba de Barata'. Shrub to 6 feet high.

248447. Col. No. 1874. 'Aurea'. Yellow-flowered variety.

249448. CALYCOPHYLLUM SPRUCEANUM Benth. Rubiaceae.

Col. No. 18095. 'Pau Mulato'. Tree to 90 feet high; trunk smooth, dark green.

249449. CALYPTROCALYX SPICATUS Blume Poenicaceae. **Palm.**

Col. No. 18089. Slender tree to 20 feet high; fruits clustered in long pendent racemes.

249450. CAMELLIA SASANQUA Thunb. Theaceae.

Col. No. 18046. Shrub to 9 feet high; foliage dark green.

249451. CAMELLIA SINENSIS (L.) Kuntze **Tea.**

Col. No. 18045. Tree to 10 feet high.

249452. CARISSA GRANDIFLORA (E. Mey.) DC. Apocynaceae.

Col. No. 18031. Shurb to 5 feet high.

249453. CASSIA APPENDICULATA Vog. Caesalpiniaceae.

Col. No. 18008. Small tree to 15 feet high.

249454. CASSIA FASTUOSA Vog.

Col. No. 18003. 'Baratinha'. Tree to 60 feet high.

249455. CASSIA FISTULA L. **Senna.**

Col. No. 18022. 'Cana-Fistula'. Tree to 20 feet high; flower intense yellow in large racemes.

249456. CASSIA GRANDIS L. f. **Pinkshower.**

Col. No. 18002. Tree to 60 feet high, grows best in open.

249457. CASSIA LATISTIPULA Benth. **Senna.**

Col. No. 18030. Shrub to 6 feet high.

249458. CEPHALONEMA POLYANDRUM Schum. Tiliaceae.

Col. No. 18044. Shrub to 7 feet high.

249459. CINNAMOMUM ZEYLANICUM Garc. Lauraceae. **Cinnamon-tree.**

Col. No. 19091. Tree to 25 feet high; leaves and bark used as a condiment.

249460. CLAPPERTONIA FICIFOLIA (Willd.) Dcne. Tiliaceae.

Col. No. 18043. Slender shrub to 5 feet high; fruits elongate-ovoid, dark brown, almost black.

249461. COCCOCYPSELUM CORDATUM Krause Rubiaceae.

Col. No. 18561. Forest, Alta da Serra, Sao Paulo. Creeper, in moist sites.

249462. DIOCLEA MACROCARPA Huber Fabaceae.

Col. No. 18042. Woody vine; foliage dense; seed pods large.

249463. DIOSPYROS KAKI L. f. Diospyraceae **Oriental persimmon.**

Col. No. 18123. 'Kaki'. Tree to 10 feet high; fruits round, reddish-yellow.

249464. DURANTA REPENS L. Verbenaceae. **Skyflower.**

Col. No. 18130. Shurb to 6 feet high; flowers pale violet; fruit small, globular, yellow when ripe.

249465. ELAEIS GUINEESIS Jacq. Phoenicaceae. **African oil palm.**

Col. No. 18097. 'Dende'. Stout tree to 75 feet high.

249466. GARDENIA LUCIDA Roxb. Rubiaceae.

Col. No. 18075. Slender shrub to 3 feet high; flowers white, fragrant.

249467. GREVILLEA BANKSII R. Br. Proteaceae.

Col. No. 18020. Tree to 8 feet high.

249468. HELICTERES SACAROLHA Juss. Sterculiaceae.

Col. No. 18047. 'Sacarrolha'. Small wide-spreading tree; fruits twisted like a cork-screw.

249469 and 249470. HOVENIA DULCIS Thunb. Rhamnaceae. **Raisin tree.**

249469. Col. No. 18211. 'Uva do Japao'. Small to medium-sized tree.

249470. Col. No. 18304. 'Mata-Fome'. Horto Florestal, Sao Paulo. Elevation 3,000 feet. Tree to 60 feet high; fruits club-shaped, edible.

249471. ILEX sp. Aquifoliaceae.

Col. No. 18552. Forest, Alta da Serra, Paranapiacaba, Sao Paulo.

249472. ILEX sp.

Col. No. 18777. Borda do Campo, Serra do Mar, Parana. Elevation 3,500 feet. Tree to 20 feet high; fruits lustrous black.

249473. ILEX sp.

Col. No. 18802. Campininha, Piraquara, Parana. Elevation 3,000 feet. Tree to 25 feet high; fruit in dense clusters along twigs.

249474. ILEX sp.

Col. No. 18954. Fazenda do Arroyo, Rio Grande do Sul. Shrub to 12 feet high; leaves small, dark; fruit almost black.

249475. INGA sp. Mimosaceae.

Col. No. 18609. 'Inga'. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 4,000 feet. Tree to 30 feet high.

249476. INODES BLACKBURNIANA (Glazebr.) O. F. Cook Phoenicaceae. **Blackburn palmetto.**

Col. No. 18086. Tree to 25 feet high.

249477. IPOMOEA BILOBA Forsk. Convolvulaceae. **Morning-glory.**

Col. No. 18036. Creeper; flowers purplish.

249478. IPOMOEA CRASSICAULIS (Benth.) B. L. Robinson **Morning-glory.**

Col. No. 18037. 'Algodao do Pantanao'. Slender shrub to six feet high.

249479. IPOMOEA NIL (L) Roth. **Morning-glory.**

Col. No. 18035. Climber; flowers purplish-blue.

249480. SOCRATEA EXORRHIZA (Mart.) Wendl. Phoenicaceae. **Palm.**

Col. No. 18069. 'Paxiuba'. Slender tree to 35 feet high with tall surface roots; fronds few; fruits pale green to light brown.

249481. IRIS sp. Iridaceae.

Col. No. 18641. Horta Mannequinho Lopes, Sao Paulo. Flowering stems to two feet high.

249482. JACARATIA DODECAPHYLLA DC. Caricaceae.

Col. No. 18010. Small tree; pulp edible.

249483. JACQUEMONTIA MARTII Choisy Convolvulaceae.

Col. No. 18034. Climber; flowers small, blue.

249484. RAPHIA RUFFA (Jacq.) Mart. Phoenicaceae. **Palm.**

Col. No. 18082. 'Sagu'. Stout tree to 30 feet high; fronds arcuate, long.

249485. ACTINOPHLOEUS SANDERIANUS (Ridley) Burret. Phoenicaceae. **Palm.**

Col. No. 18067. Tree in clumps to 20 feet high.

249486. KENTIOPSIS MACROCARPA Brongn. Phoenicaceae. **Palm.**

Col. No. 18080. Slender tree to 30 feet high.

249487. LEOPOLDINIA PULCHRA Mart. Phoenicaceae. **Palm.**

Col. No. 18096. Tree to 10 feet high; fronds fine.

249488. LEUCAENA LEUCOCEPHALA (L.) Benth. Mimosaceae. **Leadtree.**

Col. No. 18032. Tree to 12 feet high.

249489. LICUALA ELEGANS Blume Phoenicaceae. **Palm.**

Col. No. 18088. Clumps of slender tree to 20 feet high.

249490. LICUALA RUMPHII Blume **Palm.**

Col. No. 18070. Clumps of trees to 15 feet high; leaves fan-shaped.

249491. LINOMA ALBA (Bory) Wendl. Phoenicaceae. **Palm.**

Col. No. 18077. Slender tree to 55 feet high.

249492. LUCUMA RIVICOA Gaertn. f. Sapotaceae.

Col. No. 1858. 'Cutitiriba'. Tree to 75 feet high; fruit yellow.

249493. MIMUSOPS CORIACEA (D.C.) Miq. Sapotaceae.

Col. No. 18060. 'Abrico'. Tree to 35 feet high; fruits globular, yellowish, edible.

249494 and 249495. NELUMBO NUCIFERA Gaertn. Nymphaeaceae. **Hindu lotus.**

249494. Col. No. 18000. White-flowered form.

249495. Col. No. 18001. 'Flor Rosa'. Pink-flowered form.

249496. ARECA WENDLANDIANA Scheff. Phoenicaceae. **Palm.**

Col. No. 18100. Slender tree to 25 feet high.

249497. NEONICHOLSONIA GEORGEI Dumm. Phoenicaceae. **Palm.**

Col. No. 18084. Clumps of trees to 15 feet high; fruit yellowish, single seeded.

249498. NOLINA RECURVATA Hemsl. Liliaceae.

Col. No. 18093. Plants to 16 feet high; trunk flaring at base; leaves few at tip of crown.

249499. ORBIGNYA BARBOSIANA Burret Phoenicaceae. **Babassu nut.**

Col. No. 18087. 'Babacu'. Tree to 45 feet high; seeds rich in edible oil.

249500. PAIVAEA LANGSDORFFII Berg. Myrtaceae

Col. No. 18049. 'Cambuci'. Tree to 45 meet high; crown rounded; fruit pale yellow; pulp juicy, edible.

249501. PASSIFLORA sp. Passifloraceae.

Col. No. 18624. 'Macacuja de Macaco'. Climber; fruits yellowish to light brown.

249502. PHOENIX ROEBELINII O'Brien Phoenicaceae. **Palm.**

Col. No. 18009. Tree to 12 feet high.

249503. PHOENIX sp.

Col. No. 18065. 'Tamara'. Tree to 30 feet high; fronds drooping; fruits deep pink.

249504. PINANGA KUHLII Blume Phoenicaceae. **Palm.**

Col. No. 18079. Tree to 10 feet high; stems slender.

249505. PITTOSPORUM UNDULATUM Vent. Pittosporaceae. **Orange pittosporum.**

Col. No. 18500. 'Incenso'. Tree to 35 feet high; crown irregular; foliage dark green.

249506. PLATHYMENIA RETICULATA Benth. Fabaceae.

Col. No. 18052. 'Vinhatico'. Large tree.

249507. POLYANDROCOCOS CAUDESCENS (Mart.) Barb.-Rodr. Phoenicaceae. **Palm.**

Col. No. 18081. 'Imburi'. Tree to 18 feet high; fronds long, arcuate.

249508. PRUNUS SELLOWII Koehne Amygdalaceae.

Col. No. 18731. 'Pesegueiro do Matto'. Foot of Serra Sao Luiz, Parana. Elevation 3,000 feet. Small to medium-sized tree; flowers small, white.

249509. PRUNUS SPHAEROCARPA Sw.

Col. No. 18566. 'Sapuia'. Fazenda da Bonita, Serra da Bocaina, Sao Paulo. Elevation 3,500 feet. Small to medium-sized tree.

249510. PSIDIUM GUAJAVA L. Myrtaceae. **Common guava.**

Col. No. 18059. 'Goiaba Vermelha'.

249511. PSYCHOTRIA LANGSDORFFIANA Muell.-Arg. Rubiaceae.

Col. No. 18628. Serra da Bocaina, Sao Paulo. Elevation 4,000 feet. Dense shrub to six feet high; foliage dark green; fruits purplish-blue.

249512. RAUVOLFIA CANESCENS L. Apocynaceae. **Devilpepper.**

Col. No. 18027. Slender shrub to 2.5 feet high.

249513. ROYSTONEA REGIA (H.B.K.) Cook Phoenicaceae. **Cuban royal palm.**

Col. No. 18085. Tree to 90 feet high; trunk columnar, flaring at base; fruits small, almost black when ripe.

249514. SABAL HAVANENSIS Ledd. Phoenicaceae. **Palmetto.**

Col. No. 18068. Clumps of plant to eight feet high.

249515. SAPINDUS SAPONARIA L. Sapindaceae. **Southern soapberry.**

Col. No. 18072. 'Sabon de Macaco'. Tree to 45 feet high; fruits used as a substitute for soap.

249516. SCHOMBURGKIA sp. Orchidaceae.

Col. No. 18147. Common on tree trunks in gardens.

249517. SMILAX GEMINA Vell. Smilacaceae.

Col. No. 18021. 'Japecanga'. Climber; foliage dark green.

249518. SPONDIAS MOMBIN L. Anacardiaceae. **Yellow mombin.**

Col. No. 18071. 'Caja-mirim'. Tall tree; fruits yellow, containing a juicy yellow pulp.

249519. STYRAX CAMPORUM Pohl Styracaceae.

Col. No. 18219. Tree to 12 feet high.

249520. TAMARINDUS INDICA L. Caesalpiniaceae. **Tamarind.**

Col. No. 18028. 'Tamarindo'. Tree to 60 feet high; crown dense.

249521. TRIPHASIA TRIFOLIA (Burm. f.) P. Wils. Rutaceae.

Col. No. 18061. 'Limao Frances'. Open-crowned shrub to six feet high; fruits lustrous dark red to brown.

249522. (Undetermined.)

Col. No. 18622. Alta Serra, Paranapiacaba, Sao Paulo. Elevation 2,600 feet. Fruit edible.

249523. VEITCHIA JOANNIS H. Wendl. Phoenicaceae. **Palm.**

Col. No. 18092. Tree to 40 feet high; trunk straight, columnar, tapering.

249524. VERNONIA sp. Asteraceae.

Col. No. 18813. Campaninas, Serra do Mar, Parana. Elevation 3,000 feet. Herb to three feet high; stem purplish-brown; flowers blue.

249525. VERNONIA NUDIFORA Less.

Col. No. 18050. Herb to three feet high; leaves narrow; flowers small, purplish.

249526 to 249531.

From Colombia. Plants collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 23, 1958. Collected July 20, 1958.

Purchased from Wm. A. Kyburz, Bitaco.

249526. ANTHURIUM ANDRAEANUM Linden Araceae.

Col. No. 94.

249527. ANTHURIUM sp.

Col. No. 100. Bitaco.

249528. CHLOROSPATHA sp. Araceae.

Col. No. 96.

249529. PHILODENDRON sp. Araceae.

Col. No. 97. Wine-red on underside of leaves.

249530. PHILODENDRON sp.

Col. No. 98.

249531. GEOGENANTHUS CILIATUS Bruckner Commelinaceae.

Col. No. 95. 'Escudo de Amazonas'. Collected by Mr. Kyburz in Putomayo, near Mocoa. Leaves five inches across, deep-purple, round. Attractive ground cover.

249532 to 249536.

From Spain. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 24, 1958.

Commercial vegetable seeds from Granada.

249532. ALLIUM PORRUM L. Liliaceae. **Leek.**

249533. BRASSICA OLERACEA var. BOTRYTIS L. Brassicaceae. **Broccoli.**

249534. BRASSICA OLERACEA var. GEMMIFERA DC. **Brussel sprouts.**

249535. DAUCUS CAROTA L. Apiaceae. **Carrot.**

'Nantesa'.

249536. LACTUCA SATIVA L. Cichoriaceae. **Garden lettuce.**

'Four Seasons Red'.

249537. FICUS LUCESCENS Blume Moraceae. **Dotted fig.**

From Japan. Seeds presented by the Experimental Forest Station, Kyoto University, Kyoto. Received July 24, 1958.

Large tree; leaves shed twice a year. One of the common fig trees on Formosa.

249538 to 249540. ALLIUM CEPA L. Liliaceae. **Onion.**

From Greece. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 25, 1958.

From Seed Testing and Control Station, Helandrion, Attike.

249538. Kp–5.

249539. Kp–12.

249540. Kp–13.

249541. ALLIUM sp. Liliaceae.

From Angola. Seeds collected by Louis Williams and Norris Gilbert, Agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 25, 1958.

Col. No. 21567. Twelve miles north of Nova Lisboa. Elevation 5,400 feet. Flowers yellow; spikes to 12 in. long.

249542 to 249544. CAPSICUM FRUTESCENS L. Solanaceae. **Redpepper.**

From Greece. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 25, 1958.

From Seed Testing and Control Station, Helandrion, Attike.

249542. No. 102.

249543. No. 150.

249544. No. 155.

249545 to 249547.

From Mexico. Seeds presented by Christian Halbinger, 'El Troquel', Mexico City. Received July 25, 1958.

249545. JUNIPERUS ASHEI Buchholz Pinaceae. **Juniper.**

249546. PASSIFLORA MALIFORMIS L. Passifloraceae. **Passionflower.**

249547. SALVIA SCLAREA L. Menthaceae.

249548 to 249554.

From Iran. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 28, 1958.

From Tehran bazaar, except where otherwise noted.

249548. ALLIUM PORRUM L. Liliaceae. **Leek.**

Col. No. K807.

249549. ALLIUM sp.

Col. No. K809. 'Tareh'.

249550. CUCUMIS SATIVUS L. Cucurbitaceae. **Cucumber.**

Col. No. K812.

249551 and 249552. PHASEOLUS AUREUS Roxb. Fabaceae. **Mung bean.**

249551. Col. No. K804.

249552. Col. No. K840. Ahraz bazaar.

249553 and 249554. PHASEOLUS VULGARIS L. **Common bean.**

249553. Col. No. K819.

249554. Col. No. K820.

249555 to 249572.

From Thailand. Seeds presented by O. B. Pearson, West Springfield, Massachusetts. Received July 28, 1958.

Collected by Prasert Bunnag, Bangkok.

249555. BRASSICA JUNCEA (L.) Coss. Brassicaceae. **Chinese mustard.**
'Bhug-gard-keo'.

249556. BRASSICA OLERACEA var. BOTRYTIS L. **Broccoli.**
'Bhug-gana'.

249557. BRASSICA OLERACEA var. CAPITATA L. **Cabbage.**
'Khralampli'. **Turnip.**

249558. BRASSICA RAPA L. **Turnip.**
'Noa-bhug-gard'.

249559. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**
'Teang-mo'.

249560. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**
'Teang-thai'.

249561 and 249562. CUCUMIS SATIVUS L. **Cucumber.**
249561. 'Teang-guar'.
249562. 'Teang-rhan'.

249563 and 249564. CUCURBITA MOSCHATA Duchesne Cucurbitaceae. **Cushaw.**
249563. 'Fang'.
249564. 'Phug-keo'.

249565. CUCURBITA PEPO L. **Pumpkin.**
'Phug-thong'.

249566. LACTUCA SATIVA L. Cichoriaceae. **Garden Lettuce.**
'Bhug-gard-hom'.

249567. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**
'Makhua-tes'.

249568 to 249571. SOLANUM MELONGENA L. Solanaceae. **Eggplant.**
249568. 'Makhua-kaitao'.
249569. 'Makhua-jarn'.
249570. 'Makhua-proh'.
249571. 'Makhua-yow'.

249572. ZEA MAYS L. Poaceae. **Corn.**
'Kaopode-tian'.

249573. SOLANUM TUBEROSUM L. Solanaceae. **Potato.**

From the Union of South Africa. Tubers presented by the Division of Plant Pathology, Department of Agriculture, Pretoria. Received July 29, 1958.

('South Esk' × 'Shamrock') × 'Saranao'. 'South Esk' is a Scottish variety with resistance to leafroll virus, and field immunity to viruses A and X. It has never been grown commercially. 'Shamrock' is a red-skinned Irish variety with resistance to blight and leafroll. It is not grown commercially. 'Saranac' was bred in the United States and is grown in Australia on a small scale.

Plant tall, vigorous and upright; foliage medium green, curved downward; leaves large, sparsely pubescent; leaflets large, rugose when young, older primary leaflets domeshaped; flowers medium size, blue-heliotrope, light-tipped; calyx tips long pigmented, sparsely pubescent; tuber oval, somewhat flat; eyes shallow; skin usually white, but sometimes russeted and with faint pink flushes; flesh white.

249574 to 249609.

From the Union of South Africa, Angola, the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops

Research Branch, Crops Research Division, Beltsville, Md. Received July 30, 1958.

From Angola unless otherwise noted.

249574. ANTHOSCHMIDTIA KALAHARIENSIS (Stent) Bremek. & Oberm. Poaceae.

Col. No. 21586. Apington Airport, Union of South Africa.

249575. AESCHYNOMENE sp. Fabaceae.

Col. No. 21519. Along Nene River, six miles west of Huila. Elevation 5,600 feet. Shrub to six feet high; leaves pinnate.

249576. ARGYROLOBIUM SHIRENSE Taub. Fabaceae.

Col. No. 21314. Lava plain, six miles north of Goma, Belgian Congo. Elevation 6,700 feet. Shrub to 1.5 feet high.

249577. ARGYROLOBIUM sp.

Col. No. 21547. In scrub forest, nine miles north of Caconda. Elevation 5,400 feet. Perennial; root heavy; leaves 3-foliolate.

249578. CASSIA KIRKII var. GUINEENSIS Stezaert Caesalpiniaceae. **Senna.**

Col. No. 21378. Astrida roadside, Ruanda-Urundi.

249579. CASSIA sp.

Col. No. 21577. Slope, above stream, 30 miles northwest of Nova Lisboa. Elevation 4,800 feet. Woody perennial to three inches high. Ground cover

249580. CROTALARIA sp. Fabaceae.

Col. No. 21466. Near Sa da Bandeira. Elevation 5,800 feet. Woody biennial or perennial to one foot high; fruit abundant.

249581. CROTALARIA sp.

Col. No. 21490. Rocky slopes in canyon above Sa da Bandeira. Elevation 6,200 feet.

249582. CROTALARIA sp.

Col. No. 21508. Scrub forest, 12 miles east of Sa da Bandeira. Annual or biennial; leaflets sessile; seed pods ovoid, small, one to three seeds.

249583. CROTALARIA sp.

Col. No. 21570. Slope of rocky hill, six miles north of Nova Lisboa. Elevation 5,600 feet. Plant to two feet high, caespitose perennial.

249584. CROTALARIA sp.

Col. No. 21574. Scrub forest 40 miles northwest of Nova Lisboa. Elevation 4,700 feet. Erect annual; pods round.

249585. ERIOSEMA sp. Fabaceae.

Col. No. 21497. Ranch 12 miles north of Hampata. Elevation 7,200 feet. Shrub to 12 feet high; leaves sharp; flowers yellow.

249586. ERIOSEMA sp.

Col. No. 21565. Three miles east of Nova Lisboa. Elevation 5,600 feet. Annual; flowers yellow.

249587. ERIOSEMA sp.

Col. No. 21571. Scrub forest 33 miles north of Nova Lisboa. Elevation 5,000 feet. Perennial subshrub to three feet high; leaves trifoliate; flowers yellow-orange.

249588. MONELYTRUM LUDERITZIANUM Hack. ex Schinz Poaceae.

Col. No. 21589. Rocky granitic hills six miles south of Windhoek, South West Africa. Elevation 5,600 feet. Perennial to two feet high.

249589. GLYCINE JAVANICA L. Fabaceae.

Col. No. 21303. Open slopes near Rutshura, Belgian Congo. Vine; leaf trifoliate; inflorescence at each node; seed pods reflexed.

249590. HIBISCUS sp. Malvaceae.

Col. No. 21472. Plain near Vila Arriaga. Elevation 3,000 feet. Willowy shrub to three feet high; flowers very small, white.

249591. INDIGOFERA sp. Fabaceae.

Col. No. 21494. Plateau above Sa da Bandeira. Elevation 6,500 feet. Bushy annual; fruits many.

249592. INDIGOFERA sp.

Col. No. 21533. Scrub forest area near Olivenga a Nova. Elevation 4,800 feet. Bushy biennial or perennial; fruits abundant.

249593. INDIGOFERA sp.

Col. No. 21537. Scrub forest 24 miles north of Caconda. Elevation 5,600 feet. Erect, caespitose, perennial; flowers yellow.

249594. INDIGOFERA sp.

Col. No. 21544. Granite outcrop, scrub forest near Catata. Elevation 5,400 feet. Perennial to two feet high.

249595. INDIGOFERA sp.

Col. No. 21545. On open slopes nine miles south of Cuima. Elevation 5,000 feet. Perennial shrub to one foot high.

249596. INDIGOFERA sp.

Col. No. 21566. Savanna, six miles east of Nova Lisboa. Elevation 5,600 feet. Biennial or perennial to three feet high; pods quite small.

249597. INDIGOFERA sp.

Col. No. 21569. Rocky hillside three miles north of Nova Lisboa. Elevation 5,600 feet. Shrub to six feet high; seed pod apex turned up and furrowed.

249598. LATHYRUS sp. Fabaceae.

Col. No. 21576. Scrub forest 10 miles northwest of Nova Lisboa. Elevation 4,800 feet. Perennial vine; leaves trifoliate; flowers greenish-yellow.

249559. PSEUDARTHRIA HOOKERI Wight & Arn.. Fabaceae.

Col. No. 21244. Six miles north of Rayna, Nord du Kivu Province, Belgian Congo. Plant to three feet high.

249600. PSEUDARTHRIA sp.

Col. No. 21553. Scrub forest area, six miles south of Quipungo. Elevation 4,400 feet. Perennial to three feet high; leaves trifoliate; seed pods not segmented.

249601. PSORALEA sp. Fabaceae.

Col. No. 21601. Dry rocky hills, 15 miles south of Windhoek, South West Africa. Decumbent perennial.

249602. RHYNCHOSIA SUBLOBATA (Schumach.) Meikle Fabaceae.

Col. No. 21352. Ruzizi Valley, about 60 miles south of Bukavu, Belgian Congo. Vine to 18 feet high; seed large, sparse.

249603. TRIGONELLA sp. Fabaceae.

Col. No. 21552. Scrub forest nine miles north of Quipungo. Elevation 4,400 feet. Plant to 1.5 feet high.

249604. TRIGONELLA FOENUM-GRAECUM L. Fabaceae. **Fenugreek.**

Col. No. 21548. Scrub forest 12 miles north of Caconda. Elevation 5,400 feet.

249605. URELYTRUM MURICATUM Hubb. Poaceae.

Col. No. 21498. Plains and rocky hills, nine miles north of Humpata. Elevation 7,000 feet. Bunchgrass to three feet high.

249606. VIGNA MICRANTHA Harms Fabaceae.

Col. No. 21338. Fifteen miles south of Bukava, Belgian Congo. Elevation 5,400 feet.

249607. VIGNA sp.

Col. No. 21469. Nine miles north of Sa da Bandeira. Elevation 6,000 feet.

249608. VIGNA sp.

Col. No. 21481. Scrub forest near Vila Arriaga. Elevation 3,000 feet.

249609. VIGNA sp.

Col. No. 21573. Edge of wet meadow, 30 miles northwest of Nova Lisboa. Elevation 4,700 feet. Semishrub to 2.5 feet high; leave trifoliate.

249610. INDIGOFERA sp. Fabaceae.

From Colombia. Seed collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 30, 1958.

Col. No. 93. Between Cali and Palmira. Plant bushy, to six feet high; foliage sparce; heavy seed producer. A potential support for *Dioscorea.*

249611 to 2496515. SOLANUM TUBEROSUM L. Solanaceae. **Potato.**

From Czechoslovakia. Tubers presented by the Academy of Science, Prague. Received July 31, 1958.

249611. 'Ambra'.

249612. 'Karmen'.

249613. 'Kotnor'.

249614. 'Krasava'.

249615. 'Mirka'.

249616. CRATAEGUS AZAROLUS L. Malaceae. **Hawthorn.**

From Italy. Seeds presented by the Orto Botanico, Naples. Received July 31, 1958.

249617. CRATAEGUS AZAROLUS L. Malaceae. **Hawthorn.**

From Italy. Seed presented by Villa Taranto Gardens, Pallanza, Lago Maggiore. Received July 31, 1958.

'Eructu Rosea'.

249618. TRIFOLIUM REPENS L. Fabaceae. **Whiteclover.**

From Iran. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received July 31, 1958.

Collected northeast of Kuhe Sahand, Azerbaijan. A selection from P. I. 230274, *Trifolium hybridum.*

249619. ZANTHOXYLUM sp. Rutaceae.

From Nepal. Plant presented by United States Operations Mission, Katmandu. Received July 31, 1958.

'Timur'. Thorny shrub to 15 feet high, growing at the foot of a mountain in somewhat acid, well-drained, soil.

249620 to 249647.

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received July 31, 1958.

249620. HIBISCUS ESCULENTUS L. Malvaceae. **Okra.**

'Pusa Makhmali'.

249621. ABELMOSCHUS TUBERCULATUS Pal and Singh Malvaceae.

I. W. 130. Resistant to yellow vein mosaic. Resembles *Hibiscus esculentus* in several vegetative and reproductive characters. It, however, has a tall habit, short internodes, small flowers, and fruits profusely. Fruits have bristly hairs arising from tubercular bases. The petal basal spot is not uniformly purple as in *Hibiscus esculentus*. The stigma is scarlet; it is purple in *Hibiscus esculentus*.

249622 to 249633. CAJANUS CAJAN (L.) Millsp. Fabaceae. **Pigeon-pea.**

'Arhar'. Developed at the Bihar Station. Maturing strains.

Early.

249622. B.R. 13.

249623. B.R. 59.

249624. B.R. 172.

Medium.

249625. B.R. 60.

249626. B.R. 65.

249627. B.R. 71.

Late.

249628. B.R. 10.

249629. B.R. 15.

249630. B.R. 17.

'Arhar'. Developed at the Bombay Station. High yield and wilt-resistant plants.

249631. F18.

249632. F52.

'Arhar'. Developed in Uttar Pradesh. High yield, qualities of palatability and moderate wilt-resistant plants.

249633. Type 17.

249634 to 249636. CAPSICUM FRUTESCENS L. Solanaceae. **Redpepper.**

249634. N.P. (Hyb.) 17–1–1. A pungent, high yielding, green type.

249635. N.P. (Hyb.) 5–1–5. A pungent, high yielding, green type.

249636. R449. A Russian variety comparable to 'World Beater' and 'Bell'

249637 and 249638. HIBISCUS CANNABINUS L. Malvaceae. **Kenaf.**

Outstanding selections from a breeding program.

249637. N.P. 3.

249638. N.P. 6.

249639. HIBISCUS SABDARIFFA L. **Roselle.**

'Altissima'. N.P. Sab. 5. Fiber harsh and coarse, strength comparable to that of jute. Superior to 'Deccan' hemp.

249640. LUFFA CYLINDRICA (L.) Roemer Cucurbitaceae. **Suakwa towelgourd.**

'Pusa Chikni'. A selection made from smooth gourds obtained from Bihar.

249641. LYCOPERSICON (hybrid). Solanaceae. **Tomato.**

(*L. esculentum* × *L. pimpinellifolium*). 'Pusa Red Plum'.

249642 to 249647. PISUM SATIVUM L. Fabaceae. **Garden pea.**

Developed at Bihar Station.

249642. B.R. 2; I.C. 1626. White flowered.

249643. B.R. 12; I.C. 1627. White flowered.

249644. B.R. 118; I.C. 1628. White flowered.

249645. B.R. 178; I.C. 1625. Purple flowered.

Developed in Uttar Pradesh.

249646. T163; I.C. 775. White flowered; remarkably high yielding ability.

249647. Table 19; I.C. 2205. A high yielding, high quality table type.

249648. CRATAEGUS AZAROLUS L. Malaceae. **Hawthorn.**

From Italy. Seeds presented by the Instituto Ed Orto Botanico, Dell Universita, Palermo. Received Aug. 4, 1958.

249649. FICUS BURKEI Miq. Moraceae.

From the Union of South Africa. Seed presented by the Division of Botany, Department of Agriculture, Pretoria. Received Aug. 4, 1958.

A tree; leaves elliptic-lanceolate, to four inches long.

249650 to 249675.

From Angola and the Belgian Congo. Seeds collected by Louis Williams and Norris Gilbert, agricultural explorers, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 4, 1958.

From Angola, unless otherwise noted.

249650. TEPHROSIA LINEARIS (Willd.) Pers. Fabaceae.

Col. No. 21349. Ruzizi Valley, 45 miles south of Bukava, Belgian Congo.

249651. TEPHROSIA sp.

Col. No. 21491. Elevation 6,200 feet. Rocky slopes of canyon above Sa da Bandeira. Annual to one foot high; leaves trifoliate.

249652. TEPHROSIA sp.

Col. No. 21516. Sandy forest soil, nine miles west of Huila. Elevation 5,600 feet. Perennial to 1.5 feet high; leaves trifoliate.

249653. TEPHROSIA sp.

Col. No. 21559. Open savanna 15 miles north of Nova Lisbon. Elevation 5,000 feet. Perennial to three feet high; leaves trifoliate; fruits axillary.

249654. TEPHROSIA sp.

Col. No. 21562. Scrub forest, 12 miles north of Nova Lisboa. Elevation 5,000 feet. Vine.

249655. BURKEA AFRICANA, Hook. Caesalpiniaceae.

Col. No. 21479. Wooded plain near Vila Arraga. Elevation 3,000 feet. tree to 12 feet high.

249656. CAESALPINIA sp. Caesalpiniaceae.

Col. No. 21539. Open slopes nine miles south of Cuima. Elevation 5,000 feet. Woody perennial; seed pods thick, woody.

249657. CALOTROPIS PROCERA Ait. Asclepiadaceae.

Col. No. 21582A. San Miquel Fortress, Luanda. Tree to 24 feet high; leaves glaucous green; flowers blue.

249658. CHRISTIANA sp. Tiliaceae.

Col. No. 21476. On wooded plain near Vila Arraga. Elevation 3,000 feet. Shrub to three feet high; flowers yellow.

249659. OCIMUM sp. Menthaceae.

Col. No. 21492. Abundant in rocky slopes of Canyon above Sa da Bandeira. Elevation 7,000 feet. Shrub to three feet high; foliage fair; flowers small; bracts large, lavender, at top of inflorescence.

249660. PARKINSONIA ACULEATA L. Caesalpiniaceae.

Col. No. 21582. San Miquel Fortress, Luanda. Xerophytic tree; foliage good.

249661. PELTOPHORUM sp. Caesalpiniaceae.

Col. No. 21513. One and one-half miles west of Huila. Elevation 5,400 feet. Tree to 18 feet high; foliage attractive.

249662. RHEXIA sp. Melastomataceae.

Col. No. 21515. Moist meadow six miles west of Huila. Elevation 5,600 feet. Herb to four feet high; flowers one inch in diameter, purple.

249663. TERMINALIA sp. Combretaceae.

Col. No. 21521. Five miles east of Sa da Bandeira. Elevation 5,200 feet. Shrub or tree to 12 feet high; foliage fair.

249664. (Undetermined.)

Col. No. 21421. Hills near Kigali, Ruanda Urundi. Elevation 4,900 feet. Shrub to six feet high.

249665. (Undetermined.)

Col. No. 21470. 'Maboke' ('Huila'.) Near Vila Arraga. Elevation 3,000 feet. Tree to 12 feet high; fruits globose, three inches in diameter; shell hard.

249666. (Undetermined.)

Col. No. 21480. Plain above Villa Arraga. Shrub to three feet high; calyx oddly enlarged.

249667. (Undetermined.)

Col. No. 21482. 'Mirangolo' ('Huila'.) In scrub forests 12 miles north of Sa da Bandiera. Elevation 6,500 feet. Spiny tree or shrub; fruits purple, one inch long, 0.5 inch in diameter; latex from fruit white.

249668. (Undetermined.) Rubiaceae.

Col. No. 21487. Plateau six miles west of Sa da Bandeira. Elevation 6,500 feet. Semiwoody perennial; flowers scarlet, attractive.

249669. (Undetermined.) Liliaceae.

Col. No. 21499. Rocky slopes, three miles north of Humpata. Elevation 6,800 feet. Plant to 18 inches high; flowers white, 0.5 inch in diameter.

249670. (Undetermined.) Fabaceae.

Col. No. 21488. Canyon above Sa da Bandeira. Elevation 6,200 feet. Shrub to six feet high; foliage gray, attractive; flowers yellow.

249671. (Undetermined.)

Col. No. 21493. Plateau and canyon above Sa da Bandeira. Elevation 6,500 feet. Prostrate perennial; flowers small, lavender, numerous.

249672. (Undetermined.)

Col. No. 21523. Rocky slopes, six miles south of Sa da Bandeira. Elevation 6,200 feet. Bulbous; flower spike to three feet high.

249673. (Undetermined.) Menthaceae.

Col. No. 21534. Scrub forest near Olivenca a Nova. Shrub to three feet high; calyx lobes cover the seeds.

249674. (Undetermined.)

Col. No. 21561. Low shrub area about eight miles north of Nova Lisboa. Elevation 5,000 feet. Subshrub to three feet high; leaves trifoliate.

249675. ALVESIA ROSMARINIFOLIA Welw. Menthaceae.

Col. No. 21578. Scrub forest 25 miles northwest of Nova Lisboa. Elevation 4,600 feet. Shrub to six feet high; flowers in spikes, pale mauve.

249676 to 249679. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

From Mozambique. Seeds presented by the United States Consul General, Lourenco Marques. Received Aug. 5, 1958.

From the Umbeluzi Experimental Station.

249676. 'Amadnagar White No. 1'.

249677. 'Branco' (white).

249678. 'Satara Branco' (white).

249679. 'Venezuela 51'.

249680. PSEUDOERIOSEMA BORIANII (Schweinf.) Hauman Fabaceae.

From the Sudan. Seeds presented by the Tozi Research Station, Wad El Nail, Blue Nile Province. Received Aug. 5, 1958.

249681 to 249684.

From India. Seeds presented by the Division of Botany, Indian Agricultural Research Institute, New Delhi. Received Aug. 5, 1958.

249681. CROTALARIA ALATA Buch.-Ham. Fabaceae.

I.W. 15.

249682. CROTALARIA RETUSA L.

I.W. 56.

249683. CROTALARIA SERICEA Retz.

I.W. 853.

259684. CROTALARIA SEMPERFLORENS Vent.

I.W. 1269.

249685. ARAUCARIA ANGUSTIFOLIA (Bertol.) Kuntze Pinaceae.

From Brazil. Seeds collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 5, 1958.

Col. No. 18570. Fazenda da Bonita, Serra da Bocaina, Sao Paulo.

249686 to 249716.

From Spain and Portugal. Seed collected by H. S. Gentry, agricultural explorer, Plant Introduction Section, Crops Research Division, Beltsville, Md. Received Aug. 5, 1958.

From Spain unless otherwise noted.

249686 and 249687. ARRHENATHERUM ELATIUS var. BULBOSUM (Willd.) Spenner Poaceae. **Tuber oatgrass**

249686. Col. No. 16933. Near Gata, Valencia. Sparse, tufted, perennial.

249687. Col. No. 16985. Sierra Despenapiros, Jaen. Elevation 3,000 feet. A common wayside weed; seeds poorly.

249688 and 249689. CANNABIS SATIVUS L. Moraceae. **Hemp.**

249688. Col. No. 16953. 'Canamo'. Market in Murria. Vigorous summer annual; irrigated; grown for bird seed.

249689. Col. No. 16965. 'Canamo'. Near Granada. Irrigated; grown for fiber.

249690. GENISTA sp. Fabaceae.

Col. No. 16930. Parque de Caso Campo, Madrid. Elevation 2,500 feet. Ornamental shrub to six feet high.

249691. HEDYSARUM CORONARIUM L. Fabaceae. **Sulla.**

Col. No. 16983. Agricultural Experiment Station, Cordoba. F.A.O. test plot, No. 2645. Biennial, more cold resistant than *Hedysarum flexuosum*.

249692. HEDYSARUM FLEXUOSUM L.

Col. No. 15982. 'Sula'. Agricultural Experiment Station, Cordoba. F.A.O. test plot No. 2591. Annual; self-seeding.

249693 and 249694. HIBISCUS CANNABINUS L. Malvaceae. **Kenaf.**

249693. Col. No. 16966. 'Salvador'. Near Granada, Irrigated; grown for fiber.

249694. Col. No. 16967. Near Granada. Grown for fiber.

249695. LAVANDULA sp. Menthaceae.

Col. No. 16986. Sierra Despenaperos, Jaen. Rank, aromatic, ornamental bush, perhaps with an essential oil.

249696 and 249697. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

249696. Col. No. 16963. Near Granada. Tall variety grown for fiber.

249697. Col. No. 16964. Near Granada. Short variety grown for oil.

249698. LINUM sp.

Col. No. 16973. Between Granada and Jaen. Elevation 2,500 feet. Perennial herb; flowers large, purple.

249699. LYGEUM SPARTUM Loefl. Poaceae. **Espartograss.**

Col. No. 16959. Near Puerto Lumberas, Granada. Tough-leaved grass used for making sacks, first soaked in water for 20 days.

249700. MEDICAGO POLYMORPHA var. VULGARIS (Benth.) Shinners Fabaceae. **California burclover.**

Col. No. 16961. Near Guadix, Granada. Elevation 3,000 feet. Spreading winter-spring annual to six feet high.

249701. MEDICAGO ORBICULARIS (L.) All. **Buttonclover.**

Col. No. 16969. Between Granada and Jaen. Elevation 2,500 feet. Winter-spring annual; spontaneous in grain field.

249702. MEDICAGO HISPIDA Goertn.

Col. No. 16976. Near Porcuna, Cordoba. Elevation 3,000 feet. Small winter-spring annual grown for early winter feed.

249703. PHALARIS COERULESCENS Desf. Poaceae. **Canarygrass.**

Col. No. 16975. Clay soil near Porcuna, Cordoba Province. Elevation 3,000 feet. Perennial to three feet high; leaves few.

249704. PHALARIS AQUATICA L. **Large canarygrass.**

Col. No. 16981. Agricultural Station, Cordoba. Rank perennial growing in privet hedge and adjacent field.

249705. PHALARIS MINOR Retz. **Littleseed canarygrass.**

Col. No. 16984. Near Bailen, Jaen Province. Elevation 2,000 feet. Possible rhizomatous form of plant to four feet high, cespitose.

249706. SANGUISORBA sp. Rosaceae.

Col. No. 16971. Between Granada and Jaen. Elevation 2,500 feet. Winter-spring perennial herb with several scapose nodding stems in fruit.

249707. SCORPIURUS MURICATUS L. Fabaceae.

Col. No. 16970. Between Granada and Jaen. Elevation 2,500 feet. Spontaneous winter-spring forage herb.

249708. SCORPIURUS SULCATUS L. Fabaceae.

Col. No. 16911. Near Tavira, Portugal. Palatable winter-spring annual for spring pasturing.

249709. STIPA sp. Poaceae.

Col. No. 16960. Puerto de Lumbteras, Granada. Elevation 2,500 feet. Summer drought resistant tufted perennial on poor soil.

249710. TRIFOLIUM CAMPESTRE Shreb. Fabaceae. **Large hop clover.**

Col. No. 16974. Near Porcuna, Cordoba. Elevation 3,500 feet. Winter-spring annual to 10 inches high; flowers yellow.

249711. TRIFOLIUM CHERLERI Jusl. **Clover.**

Col. No. 16898. Ten miles south of Evoras, Portugal. Elevation 500 feet. Early maturing winter-spring annual.

249712. TRIFOLIUM INCARNATUM L. **Crimson clover.**

Vol. No. 16978. Near Porcuna, Cordoba. Elevation 3,000 feet. Winter-spring annual; stem thick, upright, single.

249713. TRIFOLIUM SAXATILE All. **Clover.**

Col. No. 16929. Parque de Caso Campo, Madrid. Elevation 2,500 feet. Small winter-spring annual.

249714 and 249715. TRIFOLIUM STRIATUM L. **Striate clover.**

249714. Col. No. 16828. Parque de Caso Campo, Madrid. Plants simple or diffuse, erect, winter-spring annuals, to six inches high.

249715. Col. No. 16977. Near Porcuna, Cordoba. Winter-spring annual to 12 inches high; midwinter forage.

249716. TRIFOLIUM SUBTERRANEAN L. **Subterranean clover.**

Col. No. 16927. Parque de Caso Campo, Madrid. Winter-spring annual for winter ground cover. Reported very variable.

249717 to 249768.

From Greece. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 6, 1958.

249717 and 249718. ANTHOXANTHUM ODORATUM L. Poaceae. **Sweet vernalgrass.**

249717. Col. No. 17004. Rocky slope, Asomatos, Isle of Crete. Elevation 2,500 feet. Spindling, palatable, tufted perennial.

249718. Col. No. 17066. Twelve miles north of Ierossos, Athos. Elevation 2,500 feet. Cut for hay.

249719 and 249720. ARRHENATHERUM ELATIUS (L.) Presl. Poaceae. **Tall oatgrass.**

249719. Col. No. 17087. Karyai, Athos. Elevation 2,000 feet. Clumps of leafy canes, 5.5 feet high, in chestnut forest.

249720. Col. No. 17092. Rocky slope, Athos Mountains. Elevation 2,000 feet. Clumps in open chestnut forest.

249721. AVENA SATIVA L. Poaceae. **Common oats.**

Col. No. 16991. Agricultural Experiment Station, Messira, Crete. Elevation 400 feet.

249722. BRACHYPODIUM PINNATUM (L.) Beauv. Poaceae. **Japanese falsebrome.**

Col. No. 17124. South of Grevena. Elevation 2,500 feet. Perennial with broad, hairy leaves.

249723. BRACHYPODIUM sp.

Col. No. 17084. Granitic slope, Karyai, Athos. Elevation 1,800 feet. Perennial grass with leafy culms.

249724. BROMUS RACEMOSUS L. Poaceae **Bald brome.**

Col. No. 17069. Fifteen miles north of Ierissos, Athos. Elevation 2,500 feet. Plant to three feet high; leaves few.

249725. LOLIUM TEMULENTUM L. Poaceae. **Darnel.**

Col. No. 17078. Karyai, Athos. Elevation 1,800 feet. Succulent perennial herb; stems thick.

249726. CALAMAGROSTIS EPIGEJOS (L.) Roth Poaceae.

Col. No. 17105. Ierissos, Athos. Elevation 100 feet. Coarse, caney perennial along meadow drainway.

249727. CAREX sp. Cyperaceae.

Col. No. 17116. Eighteen miles north of Ierissos along road to Arnaca. Elevation 2,000 feet. Plant to nine inches high.

249728 and 249729. CYNOSURUS CRISTATUS L. Poaceae. **Crested dogtail.**

249728. Col. No. 17060. Fifteen miles north of Ierissos, Athos. Elevation 2,500 feet. Perennial.

249729. Col. No. 17129. Pefki, Pindhos Mountains. Elevation 2,500 feet. Sparsely leaved perennial scattered in a mixed meadow, cut for hay.

249730 to 249732. DACTYLIS GLOMERATA var. HISPANICA (Roth) Duby Poaceae.

249730. Col. No. 17001. Asomatos, Crete. Elevation 3,500 feet. Winter-spring perennial; leaves few.

249731. Col. No. 17017. Rocky slope 15 miles southeast of Hiraklion, Crete. Elevation 1,500 feet. Drought resistant perennial; leaves narrow, numerous.

249732. Col. No. 17029. Near Thebes. Elevation 2,000 feet. Mountain slope in protected reforestation area.

249733 to 249737. DACTYLIS GLOMERATA L. **Orchardgrass.**

249733. Col. No. 17074. Steep rocky slope, Karyai, Athos. Elevation 1,800 feet. Tall perennial.

249734. Col. No. 17123. Near Veroia. Elevation 1,500 feet. Plants drought resistant; leaves few.

249735. Col. No. 17125. South of Grevena. Elevation 2,500 feet. Sparse-leaved xerophyte.

249736. Col. No. 17140. Dry sites around ruins, Dodono, Ipaerus Province, Elevation 2,300 feet. Thriving leafy perennial, cut for hay.

249737. Col. No. 17145. Dry rocky slope, Delphi. Elevation 2,000. Large, leafy, well developed plant.

249738. FESTUCA ARUNDINACEA Schreb. Poaceae. **Tall fescue.**

Col. No. 17128. Pefki, Pindhos Mountains. Elevation 2,500 feet. Succulent-leaved perennial, closely grazed in natural pasture.

249739. FESTUCA OVINA L. **Sheep fescue.**

Col. No. 17122. Near Veroia. Elevation 1,500 feet. Fine-leaved, tufted, perennial; glaucous and green types present.

249740 and 249741. FESTUCA RUBRA L. **Red fescue.**

249740. Col. No. 17141. Dodono, Ipaerus Province. Elevation 2,300 feet. Perennial; leaves long, narrow, in tufts.

249741. Col. No. 17148. Limestone rocks, Delphi. Elevation 2,000 feet. Large bunchgrass; leaves narrow, green, numerous.

249742. FESTUCA RUBBA var. HETEROPHYLLA (Lam.) Mutel **Shade fescue.**

Col. No. 17085. Granitic slope, Karyai, Athos. Elevation 1,800 feet. Fine-leaved perennial in forest openings.

249743. FESTUCA sp.

Col. No. 17090. Athos Mountains. Elevation 2,000 feet. Shade tolerant perennial; leaves long, narrow.

249744. GENISTA sp. Fabaceae.

Col. No. 17076. Mountain Athos. Elevation 2,000 feet. Leafy bush along chestnut forest trail.

249745. GENISTA sp.

Col. No. 17083. Karyai, Athos. Elevation 1,800 feet. Perennial bush, woody at base, to three feet high.

249746 to 249748. HORDEUM BULBOSUM L. Poaceae. **Bulbous barley.**

249746. Col. No. 16993. Coarse, dry, rocky soil, Messera, Crete. Elevation 400 feet. Weedy perennial along woods.

249747. Col. No. 17016. Dry rocky soil, 15 miles southeast of Hiraklion, Crete. Elevation 1,500 feet. Tall, caney perennial.

249748. Col. No. 17030. Mountain near Thebes. Elevation 2,000 feet. Perennial on protected reforested land.

249749. LUZULA SILVATICA (Huds.) Gaud. Juncaceae. **Woodrush.**

Col. No. 17101. Ierissos by Athos. Elevation 50 feet. Perennial in bottomland meadow; cut for hay.

249750. LATHYRUS SATIVUS L. Fabaceae. **Grass peavine.**

Col. No. 17039. San Dimitros, Mount Olympos, Crete. Elevation 2,700 feet. Winter-spring annual; flowers yellow.

249751 and 249752. LOLIUM PERENNE L. Poaceae. **Perennial ryegrass.**

249751. Col. No. 17002. Asomatos, Crete. Elevation 2,500 feet. Fine-leaved perennial.

249752. Col. No. 17126. Pefki, Pindhos Mountains. Elevation 2,500 feet. Perennial growing in meadow with some irrigation. Cut for hay.

249753. LOTUS CORNICULATUS L. Fabaceae. **Birdsfoot trefoil.**

Col. No. 17099. Moist, sandy, river alluvium, Ierissos, Athos. Elevation 50 feet. Many-stemmed leafy perennial.

249754. LOTUS ANGUSTISSIMUS L. **Trefoil.**

Col. No. 17100. Moist sandy river bottom, Ierissos, Athos. Elevation 50 feet. Decumbent to erect perennial, thick, bushy, in clonal colonies; stems and leaves fine.

249755. LOTUS ORNITHOPODIOIDES L. **Trefoil.**

Col. No. 17014. Fifteen miles southeast of Hiraklion, Crete. Elevation 1,500 feet. Spreading winter-spring annual; seed pods ripening determinately.

249756. TRIFOLIUM FILIFORME L.

Col. No. 17062. Twelve miles north of Ierissos by Athos. Elevation 2,500 feet. Fine-stemmed, leafy perennial forming a dense cover to 1.5 feet high; flowers minute, yellow; seeds freely.

249757. LOTUS ANGUSTISSIMUS L. **Trefoil.**

Col. No. 17075. Rocky ground, Karyai, Athos. Elevation 1,800 feet. Diffuse perennial; fine-stemmed; small-leaved.

249758. LUPINUS HIRSUTUS L. Fabaceae. **European blue lupine.**

Col. No. 17009. Potamous Amari Canyon, Crete. Elevation 2,400 feet. Winter-spring annual; seed pods large, flat, in whorls.

249759. LUPINUS sp.

Col. No. 17043. San Dimitros, Olympus. Elevation 2,700 feet. Winter-spring annual; seed pods large.

249760. LUPINUS sp.

Col. No. 17079. Karyai, Athos. Elevation 1,800 feet. Annual spring herb to one foot high; crown branching; stem thick.

249761 and 249762. MEDICAGO ARABICA (L.) All. Fabaceae. **Spotted burclover.**

249761. Col. No. 17042. San Dimitros, Olympus. Elevation 2,700 feet. Vigorous winter-spring annual; stems to three feet long; flowers yellow.

249762. Col. No. 17059. Fifteen miles north of Ierissos, Athos. Elevation 2,500 feet. Winter-spring annual.

249763. ORYZOPSIS HOLCIFORMIS (Bieb.) Hack. Poaceae. **Ricegrass.**

Col. No. 17143. Dry rocky soil, Menidhion. Elevation 500 feet. Perennial bunchgrass.

249764. POA NEMORALIS L. Poaceae. **Wood bluegrass.**

Col. No. 17088. Near Karyai, Athos. Elevation 2,000 feet. Coarse, succulent, perennial to three feet high.

249765. POA HYBRIDA Gaud. **Bluegrass.**

Col. No. 17086. Open granitic slope, Karyai, Athos. Elevation 1,800 feet. Succulent perennial in chestnut forest.

249766. POA PRATENSIS L. **Kentucky bluegrass.**

Col. No. 17091. Athos Mountains. Elevation 2,500 feet. Tall perennial; culms leafy and thick.

249767. VICIA ANGUSTIFOLIA L. Fabaceae. **Narrowleaf vetch.**

Col. No. 17041. San Dimitros, Olympus. Elevation 2,700 feet. Winter-spring annual; seed pods narrow.

249768. VICIA sp.

Col. No. 17081. Karyai, Athos. Elevation 1,800 feet. Plants large and bushy; flowers with purple banners and pale keels.

249769 to 249807. COLEUS BLUMEI var. VERSCHAFFELTII Lem. Menthaceae.

From Great Britain. Cuttings purchased from S. Pedley & Sons, near Kirkah, Preston, Lancashire, England. Received August 6, 1958.

249769. 'Afterglow'.

249770. 'Autumn'. Uniform reddish brown; a slow grower.

249771. 'Beauty'. Dark brown, edges turning red. A dark sport of 'Paisley Shawl'.

249772. 'Beckwith's Gem'. Leaves brown, edged green, turning crimson with pale yellow edge.

249773. 'Blackburn'.

249774. 'Bizarre Croton'. Bushy habit, medium vigour; leaves small narrow, green and white splashed with red and brown.

249775. 'Campfire'. Vigorous branching habit; leaves green, splashed brown; edges turning red and yellow.

249776. 'Celia'. Short bushy habit; leaves light chestnut brown with narrow frilled yellow-green edge.

249777. 'Crimson Velvet'. Leaves frilled, edge dark brown, center red. A good grower.

249778. 'Cristata'. Leaves frilled, green, center white.

249779. 'Dominant'.

249780. 'Doris'. A good grower; leaf center medium pink, edge medium green.

249781. 'Etna'. Leaves reddish brown, edge turning bright red. A dark sport of 'Campfire'.

249782. 'Excellent'. Leaves medium sized; edge dark brown, center red, plant of medium vigor.

249783. 'Freckles'. Leaves light yellow-green, splashed with shades of light brown, unusual.

249784. 'Glitter'. Leaves brown, edge green, turning red with golden yellow.

249785. 'Glory of Luxemborg'. Leaves bright chocolate-brown with narrow yellow-green crimped edge.

249786. 'Harlequin'. Leaf center green, edge turning cream, the whole splashed with red and brown. A sport of 'Paisley Shawl'.

249787. 'Laing's Croton'. Leaves narrow, color patterns minute varying from cream to red.

249788. 'Lord Falmouth'. Plant bushy; leaves small, green, veined brown, pink center.

249789. 'Moonbeam'. Leaves light yellow-green, turning cream; edge frilled.

249790. 'Paisley Shawl'. Leaf center green, stippled brown; edge turning cream, stippled with red. Unusual.

249791. 'Pegasus'.

249792. 'Picturatum'. Plant bushy; leaves small, brown-black with red centers.

249793. 'Pineapple Beauty'. Leaves yellow-green, turning gold with reddish-brown blotches.

249794. 'Poynton'. Plant vigorous; leaf edge dark green splashed with brown, center creamy white splashed with bright red.

249795. 'Red Croton'. Plant; leaves small, narrow, with red centers edged brown.

249796. 'Rust'. Plant has open habit; leaves large, crinkly orange-brown.

249797. 'Russet'. Leaves golden-brown with pink center, pale green edge.

249798. 'Salmon Croton'. Plant medium size, bushy; leaves long, narrow, brown with salmon-pink center.

249799. 'Skylark'. Leaves light green stippled with light brown.

249800. 'Sunbeam'. Leaves light green later turning yellow.

249801. 'Sunburst'. Leaves light yellow-green, splashed with brown and red.

249802. 'Sunset'. Plant of medium vigor; leaves medium sized, golden brown.

249803. 'Tapestry'. Plant vigorous; leaves brown with frilled edge, later turning bright red.

249804. 'Torch'. Leaves outstanding bright red.

249805. 'Twinkle'.

249806. 'Vesuvius'. Plant vigorous; leaves brown turning to bright brick-red.

249807. 'White Gem'. Leaves large, white stippled with green around the edge.

249808. HIPPEASTRUM MINIATUM Herb. Amaryllidaceae.

From Peru. Bulbs collected by Earl E. Smith, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received August 6, 1958.

'Aputocto'. Fifty-eight km. from Quince Mil, road to Cuzco. Elevation 2,300 meters. Flowers large, red.

249809 and 249810. PIPER NIGRUM L. Piperaceae. **Black pepper.**

From Thailand. Seeds presented by Praset Bunnag, Bangkok. Received Aug. 6, 1958.

249809. 'Phrik-tai-dam'. Black.

249810. 'Phrik-tai-kao'. White.

249811 to 249822. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Israel. Seeds presented by the Agricultural Research Sation, Nve-Yaar. Received Aug. 7, 1958.

249811. CDF 13–1.
249812. CDF 33–1.
249813. E 38.
249814. G–4–48.
249815. N–150.
249816. N–163.

249817. NTF 5–1.
249818. NFT 6–1.
249819. NFT 6–2.
249820. NY–51.
249821. PIF–57.
249822. 'Zenati Bouteilla'.

249823 to 249857.

From Greece. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 7, 1958.

249823. BRACHYPODIUM sp. Poaceae.

Col. No. 17114. North of Ierissos, 20 miles from Arnaca. Elevation 2,000 feet. Perennial; cut for hay.

249824. DORYCNIUM HERBACEUM Vill. Fabaceae.

Col. No. 17110. North of Ierissos, 20 miles from Arnaca. Elevation 2,000 feet. Five-leaved perennial; flowers white.

249825. JUNIPERUS sp. Pinaceae. **Juniper.**

Col. No. 17025. Rocky slope near sea level, Elous (Elunda), Isle of Crete. symmetrical trees.

249826. JUNIPERUS sp.

Col. No. 17028. Rocky slope near Vaza, Athens-Thebes road. Elevation 1,500 feet. Low spreading trees.

249827. JUNIPERUS sp.

Col. No. 17034. San Dramitros, Olympus, Crete. Elevation 2,700 feet. Dense ornamental shrub; leaves pungent.

249828. MEDICAGO LUPULINA L. Fabaceae. **Black medic.**

Col. No. 17136. Alluvial floor of the 1,000 B.C. theatre, Dodono, Ipaerus Province. Elevation 2,300 feet.

249829 and 249830. MEDICAGO ORBICULARIS (L.) All. **Buttonclover.**

249829. Col. No. 17054. Thirty miles southeast of Salonika. Elevation 2,700 feet. Winter-spring annual.

249830. Col. No. 17147. Steep, rocky detrital slope, Delphi. Elevation 2,000 feet. Winter-spring annual.

249831. MEDICAGO sp.
Col. No. 17031. Mount Colidronum, Bralos Peak, Thebes-Larissa road. Winter-spring annual; closely grazed by sheep.

249832. MYRTUS COMMUNIS L. Myrtaceae. **True myrtle.**

Col. No. 17003. Asomatos, Isle of Crete. Elevation 2,500 feet. Evergreen ornamental; flowers white.

249833. ORNITHOPUS COMPRESSUS L. Fabaceae.

Col. No. 17047. San Dimitros, Olympus. Elevation 2,700 feet. Winter-spring annual; stem leafy, soft.

249834. ORYZOPSIS COERLUESCENS (Desf.) Hack. Poaceae. **Ricegrass.**

Col. No. 17150. Dry rocky slope, Delphi. Elevation 2,000 feet. Narrow-leaved perennial.

249835. OXYTROPIS sp. Fabaceae.

Col. No. 17152. Northern base of Mount Olympus. Elevation 1,000 feet. Well formed shrub; seed pods bladderlike.

249836 to 249839. PHALARIS AQUATICA L. Poaceae. **Large canarygrass.**

249836. Col. No. 17096. Ierissos, Athos. Elevation 30 feet. Colony of clumps to five feet high; culms leafy.

249837. Col. No. 17144. Near Mesolongion. Elevation 300 feet. Coarse, thriving, perennial to five feet high.

249838. Col. No. 16992. Spontaneous along irrigation ditch, Messera, Crete. Apparently rhizomatous, forming spreading clumps.

249839. Col. No. 17005. Spontaneous in disturbed soils, Asomatos, Crete. Crete. Annual rainfall to 35 inches. Elevation 2,500 feet. Clonal thickets to four feet high; stemmy with little leaf.

249840 and 249841. SANGUISORBA MINOR Scop. Rosaceae. **Small burnet.**

249840. Col. No. 17049. San Dimitros, Olympus. Elevation 2,700 feet. Green and succulent perennial herb to 3 feet high.

249841. Col. No. 17135. Dry site, Dodono, Ipaerus Province. Elevation 2,300 feet. Winter-spring herb.

249842. SECALE CEREALE L. Poaceae. **Rye.**

Col. No. 17040. San Dimitros, Olympus. Elevation 2,700 feet. Heads irregular size; stems long.

249843. SCORPIURUS SULCATUS L. Fabaceae.

Col. No. 17015. Fifteen miles, southeast of Hiraklion. Elevation 1,500 feet. Winter-spring annual with basal rosette of leaves; stems spreading; palatable.

249844. TRIFOLIUM CAMPESTRE Schreb. Fabaceae. **Large hop clover.**

Col. No. 17127. Natural pasture, Pefhi, Pindhos Mountains. Elevation 2,500 feet. Leafy winter-spring annual to 15 inches high; flowers yellow.

249845 and 249846. TRIFOLIUM HIRTUM All. **Rose clover.**

249845. Col. No. 17038. Dry rocky slope, San Dimitros, Olympus. Elevation 2,700 feet. Diffuse winter-spring annual.

249846. Col. No. 17046. San Dimitros, Olympus. Hairy winter-spring annual; corolla pinkish-red.

249847 and 249848. TRIFOLIUM SUBTERRANEAN L. **Subterranean clover.**

249847. Col. No. 17035. San Dimitros, Olympus. Elevation 2,700 feet. Plants low, spreading, mixed with *Trifolium repens, Sanguisorba*, etc.

249848. Col. No. 17061. Sixteen miles north of Ierissos, Athos. Elevation 2,500 feet. Plants forming a substrata under dense growth of taller herbs.

249849. TRIFOLIUM sp.

Col. No. 17013. Dry rocky soil, 16 miles southeast of Hiraklion, Crete. Elevation 1,500 feet. Low, bushy, perennial. Apparently not very palatable, but forms good cover.

249850. TRIFOLIUM sp.

Col. No. 17018. Rocky road, eight miles southeast of Hiraklion, Crete. Elevation 1,200 feet. Bushy perennial forming a good cover; flowers red.

249851. TRIFOLIUM NIGRESCENS Viv. **Ball clover.**

Col. No. 17032. San Dimitros, Olympus. Elevation 2,700 feet. Diffuse, winter-spring annual; flowers white.

249852. TRIFOLIUM REPENS L. **White clover.**

Col. No. 17033. San Dimitros, Olympus. Elevation 2,700 feet. Diffuse perennial; flowers white.

249853 and 249854. TRIFOLIUM STRIATUM L. **Striate clover.**

249853. Col. No. 17052. San Dimitros, Olympus. Elevation 3,200 feet. Leafy winter-spring herb.

249854. Col. No. 17050. Rocky slope, San Dimitros, Olympus. Elevation 2,700 feet. Winter-spring annual; calyces whitish.

249855. TRIFOLIUM NIGRESCENS Viv. **Ball clover.**

Col. No. 17058. Sixteen miles north of Ierissos, Athos. Elevation 2,500 feet. Diffuse annual to eight inches high, growing with meadow herbs; flowers white.

249856. TRIFOLIUM HYBRIDUM var. PRATENSE Rabenh.

Col. No. 17132. Near Metzovon, Pindhos Mountains. Elevation 3,000 feet. Perennial herb in clonal colonies in meadow; cut for hay.

249857. TRIFOLIUM DOLOPICUM Heldr. et Hausskn.

Col. No. 17151. Delphi. Elevation 2,000 feet. Winter-spring annual.

249858 and 249859. ALLIUM BAKERI Regel Liliaceae.

From Japan. Bulbs presented by the Agriculture Improvement Section, Kagawa Local Government, Tenjinmae, Takamatsu-shi. Received Aug. 8, 1958.

249858. 'Hana Rakkyo'. Improved small variety.

249859. 'Rakkyo'. Large native variety.

249860 to 249888.

From Greece. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 8, 1958.

249860. ORYZOPSIS MILIACEA (L.) Benth. & Hook. ex Aschers. & Schweinf. Poaceae. **Smilograss.**

Col. No. 17146. Dry rocky slope, Delphi. Elevation 2,000 feet. Tufted perennial.

249861. SANGUISORBA sp. Rosaceae.

Col. No. 17149. Dry rocky slope, Delphi. Elevation 2,000 feet. Perennial with green leaves and mature seeds.

249862. STIPA sp. Poaceae.

Col. No. 17104. Ierissos, Athos. Elevation 100 feet. Perennial; a deep meadow sod; cut for hay.

249863. TRIFOLIUM AGRARIUM L. Fabaceae. **Hopclover.**

Col. No. 17080. Dry rocky slope, Karyai, Athos. Elevation 1,800 feet. Spring annual to one foot high in chestnut forest.

249864. TRIFOLIUM ARVENSE L. **Rabbitfoot clover.**

Col. No. 17073. Karyai, Athos. Elevation 1,800 feet. Erect, spreading spring annual to one foot high; flowers white.

249865. TRIFOLIUM CHERLERI Jusl. **Clover.**

Col. No. 17138. Dodona, Ipaerus Province. Elevation 2,300 feet. Perennial with creepings stems.

249866. TRIFOLIUM FRAGIFERUM L. **Strawberry clover.**

Col. No. 17107. River alluvium, Ierissos, Athos. Elevation 50 feet. Thriving colony forming a close cover.

249867. TRIFOLIUM LAPPACEUM L. **Lappa clover.**

Col. No. 17130. Dry soil, Pefhi, Pindhos Mountains. Elevation 2,500 feet. Winter-spring annual of little forage value.

249868. TRIFOLIUM PALLIDUM Waldst. & Kit. **Clover.**

Col. No. 17139. Dodona, Ipaerus Province. Elevation 2,300 feet. Winter-spring stemmy annual to two feet high.

249869. TRIFOLIUM NIGRESCENS Viv. **Ball clover.**

Col. No. 17137. Alluvium in 1,000 B.C. amphitheater, Dodona, Ipaerus Province. Elevation 2,300 feet. Winter-spring annual.

249870. TRIFOLIUM PRATENSE L. **Red clover.**

Col. No. 17109. Eighteen miles, north of Ierissos, Arnaia road. Elevation 2,000 feet. Thriving spontaneous population after fertilizing previous winter; cut for hay.

248971 to 249876. TRIFOLIUM REPENS L. **Whiteclover.**

249871. Col. No. 17036. Well drained slope, San Dramitris, Olympus. Elevation 2,700 feet. Plant vigorous, just beginning to mature seed.

249872. Col. No. 17048. San Dimitros, Olympus. Elevation 2,800 feet. Perennial; flowers in pink on long peduncles.

249873. Col. No. 17065. Fifteen miles north of Ierissos, Athos. Elevation 2,500 feet. Vigorous strain forming thick cover in meadow pasture; seeding freely.

249874. Col. No. 17103. Ierissos, Athos. Elevation 50 feet. Spreading clone; flowers pink and white.

249875. Col. No. 17115. Eighteen miles north of Ierissos-Arnaca road. Elevation 2,000 feet. Clone; flowers white; calyx pink.

249876. Col. No. 17131. Pefhi, Pindhos Mountains. Elevation 2,500 feet. perennial herb dominated by grasses.

249877. TRIFOLIUM RESUPINATUM L. Fabaceae. **Persian clover.**

Col. No. 17133. Dodona, Ipaerus Province. Elevation 2,300 feet. Winter-spring annual growing in dense diffuse colonies.

249878. VICIA DASYCARPA Ten. Fabaceae. **Woollypod vetch.**

Col. No. 17142. Dodona, Ipaerus Province. Elevation 2,300 feet. Erect, diffuse annual.

249879. VICIA SATIVA L. Fabaceae. **Common vetch.**

Col. No. 17044. San Dimitros, Olympus. Elevation 2,700 feet. Winter-spring annual; stem to four feet long.

249880. VICIA LUTEA L. **Vetch.**

Col. No. 17037. Clay bank, San Dimitros, Olympus, Crete. Elevation 2,700 feet. Annual; stem leafy; flowers yellow; pod hairy.

249881. VICIA ANGUSTIFOLIA VAR. SEGETALIS (Thuill.) Koch **Vetch.**

Col. No. 17045. San Dimitros, Olympus. Elevation 2,700 feet. Common wayside annual.

249882. VICIA DASYCARPA Ten. **Woollypod vetch.**

Col. No. 17051. San Dimitros, Olympus. Elevation 2,700 feet. Winter-spring annual; seed pods short, roundish, glabrous.

249883. VICIA HIRSUTA (L.) S. F. Gray **Tiny vetch.**

Col. No. 17063. Fifteen miles north of Ierissos, Athos. Elevation 2,500 feet. Viney annual; leaves fine; stems to three feet long.

249884. VICIA sp.

Col. No. 17082. Chestnut forest, Karyai, Athos. Elevation 1,800 feet. Erect perennial herb to two feet high.

249885. VICIA sp.

Col. No. 17089. Athos Mountains. Elevation 2,500 feet. Plants erect, bushy to three feet high. Reportedly forage.

249886. VICIA SATIVA L. **Common vetch.**

Col. No. 17098. Ierissos, Athos. Elevation 50 feet. Spring annual with tall grasses.

249887. VICIA ANGUSTIFOLIA L. **Narrowleaf vetch.**

Col. No. 17112. Eighteen miles north of Ierissos, road to Arnaca. Elevation 2,000 feet. Annual to two feet high, common in meadow.

249888. (Undetermined.)

Col. No. 16994. Messara, Crete. Herb with poisonous bulb.

249889. NERINE SARNIENSIS var. CORUSCA Baker Amaryllidaceae.

From Great Britain. Bulbs presented by P. M. Vandertang, l'Islet Guernsey, English Channel. Received August 8, 1958.

'Major'. Flowers pale orange; petals less recurved than the botanical variety.

249890 to 249893.

From Kenya. Seeds presented by the East African Herbarium, Nairobi. Received August 11, 1958.

249890. IPOMOEA HILDERBRANDTII Vatke Convolvulaceae.

249891. IPOMOEA HILDERBRANDTII var. MEGAENSIS Verdcourt

249892. IPOMOEA MARMORTA Britt. & Rendle.

249893. IPOMOEA OCHRACEA G. Don

249894 to 249897. CUCUMIS LONGIPES Hook. f. Cucurbitaceae.

From the Union of South Africa. Seeds presented by the Department of Agriculture, Pretoria, Transvaal. Received Aug. 11, 1958.

Prostrate monoecious annual; leaves 2–4 inches long, similar to *C. ficifolius*, deeply cut into 5–7 obovate-round toothed lobes, scabrous on both surfaces; ovary echinate with short stiff prickles; fruit oblong, two inches long, on a stout, curved, peduncle 3–5 inches long, rounded at both ends, smooth and glabrous except for few scattered prickles; seeds 0.18 inch long, elliptic-oblong, pale brown, smooth, margins rounded.

249894. 'Gatooma 26'. Large fruited type with long spines. Originally from Southern Rhodesia.

249895. 'Gatooma 29'. Large fruited type with long spines. Originally from Southern Rhodesia.

249896. 'Clark No. 156'. Small fruited type. Originally from Northern Rhodesia.

249897. 'Jensen'. Originally from South West Africa.

249898 to 249922.

From Portugal, Greece, and Spain. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 11, 1958.

From Portugal unless otherwise noted.

249898 to 249903. ALLIUM CEPA L. Liliaceae. **Onion.**

249898. Col. No. 16920. 'Cebola Valenciana'. Lisbon seed store.

249899. Col. No. 16921. 'Cebola Garrafal'. Lisbon seed store.

249900. Col. No. 16922. 'Cebola de Setusal'. Lisbon seed store.

249901. Col. No. 16923. 'Cebola Saloia'. Lisbon seed store.

249902. Col. No. 16941. 'Cebola Temprana o Babosa'. Estacion de Horticultura, Valencia, Spain. Early white variety. Does not keep well.

249903. Col. No. 16942. 'Cebola de Grano'. Estacion de Horticulture, Valencia, Spain. Indigenous, sweet, reddish variety maturing in August. keeps through the winter.

249904. ASPHODELUS LUSITANICUS Henriq. Liliaceae.

Col. No. 16919. Oeiras. Winter-spring perennial herb, used for skin diseases.

249905. ASTER LINOSYRIS (L.) Bernh. Asteraceae.

Col. No. 16926. Oeiras. Ornamental perennial in Mediterranean type climate. Native to Portugal.

249906. BRASSICA RAPA L. Brassicaceae. **Turnip.**

Col. No. 16958. 'Colinabo'. Market, Murcia, Spain.

249907 to 249911. CAPSICUM FRUTESCENS L. Solanaceae. **Redpepper.**

249907. Col. No. 16924. 'Pimentos da America'. Lisbon seed store.

249908. Col. No. 16925. 'Pimentos Morrones'. Lisbon seed store.

249909. Col. No. 16943. 'Pimento de Tres Puntas'. Estacion de Horticultura, Valencia, Spain. Small, sweet, green variety.

249910. Col. No. 16944. 'Pimiento de Cuatro Cantos'. Estacion de Hortitura, Valencia, Spain. Large 4-cornered variety.

249911. Col. No. 16945. 'Esmento Comicabra'. Estacion de Horticultura, Valencia, Spain. Green variety with slender rounded acuminate fruits.

249912. HYPOCHAERIS RADICATA L. Cichoriaceae.

Col. No. 17070. Fifteen miles north of Ierissos, Athos, Greece. Scapose annual weed.

249913. CUCURBITA FICIFOLIA Bouche Cucurbitaceae. **Alcallota.**

Col. No. 16956. 'Calabasa Celbolla Angel'. Market, Murcia, Spain.

249914. CUCURBITA MAXIMA Duchesne **Squash.**

Col. No. 16957. Market, Murcia, Spain. Summer squash.

249915. CYNARA CARDUNCULUS L. Asteraceae. **Cardoon.**

Col. No. 16946. 'Cardo'. Estacion de Horticultura, Valencia, Spain. Bleached leaves eaten as a vegetable.

249916. ARRHENATHERUM ELATIUS (L.) Presl Poaceae. **Tall oatgrass.**

Col. No. 16899. Mountains near Evora. Elevation 500 meters. Sparsely leaved perennial, seeding poorly and early.

249917. LAVANDULA sp. Menthaceae.

Col. No. 16897. Along road in sedimentary rocks, 38 km. northeast of Evora. Elevation 500 meters. Perennial to four dm. high, strongly aromatic.

249918. MEDICAGO ORBICULARIS (L.) All. Fabaceae. **Buttonclover.**

Col. No. 16913. Near Tavira. Winter-spring annual.

249919. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**

Col. No. 16954. 'Frijol Herraduca Argentinos'. Market, Murcia, Spain. Curling, flat-podded pole bean; eaten green. Irrigated.

249920. SPINACIA OLERACEA L. Chenopodiaceae. **Common spinach.**

Col. No. 16955. 'Espinaca Veroflay'. Market, Murica, Spain.

249921. TRIFOLIUM RESUPINATUM L. Fabaceae. **Persian clover.**

Col. No. 16912. Near Tavira. Winter-spring annual liked by sheep.

249922. VICIA LUTEA L. Fabaceae. **Vetch.**

Col. No. 16914. Near Tavira. Determinate winter-spring annual.

249923 to 249926. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

From New Zealand. Scions presented by the Department of Scientific and Industrial Research, Fruit Research Division, Auckland. Received August 11, 1958.

249923. 'Gravenstein'.

249924. 'Kidd's Orange'.

249925. 'King Cole'.

249926. 'Red Gravenstein Oratia Beauty'.

249927 to 249931.

From Mexico. Tubers collected by D. S. Correll, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received August 11, 1958.

249927. SOLANUM PINNATISECTUM Dun. Solanaceae.

Col. No. 20303. Three miles east of Majalca, Chihuahua. Plant rigidly erect; tubers white, brittle.

249928. SOLANUM sp.

Col. No. 20049. Durango State. Flowers white, rotate-stellate.

249929. SOLANUM sp.

Col. No. 20075. Canyon of Rio Chico, north slopes, 18 miles west of Durango, Route No. 40, Durango. Flowers purplish-blue.

249930. SOLANUM sp.

Col. No. 20076. Canyon of Rio Chico, north slope, 18 miles west of Durango, Route 40, Durango.

249931. SOLANUM sp.

Col. No. 20135. Mimbres Canyon, 26 miles west of Durango Route 40, Durango. Flowers small, purple to lavender-white.

249932 to 249936.

From Greece. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 11, 1958.

From the Salonika Agricultural Farm, Salonika.

249932 and 249933. AVENA SATIVA L. Poaceae. **Common oats.**

249932. F46832.

249933. F49970.

249934 and 249935. HORDEUM VULGARE L. Poaceae. **Common barley.**

249934. No. 1979.

249935. No. 47014. Reported to have resistance to *Helminthosporium*.

249936. SECALE CEREALE L. Poaceae. **Rye.**

Col. No. 3115.

249937. MEDICAGO ARBOREA L. Fabaceae. Tree alfalfa.

From Greece. Seed presented by the Seed Testing Laboratory, Kalogreza, Chalandri, Athens. Received Aug. 11, 1958.

249938 to 249944. LUPINUS ANGUSTIFOLIUS L. Fabaceae. Blue lupine.

From Australia. Seed presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Aug. 12, 1958.

249938. C.P.I. 10042. Formerly from Germany.

249939. C.P.I. 10348. Formerly from Bulgaria.

249940. C.P.I. 11480. Formerly from Portugal.

249941. C.P.I. 16361. Formerly from South Africa.

249942. C.P.I. 16580. Formerly from Portugal.

249943. C.P.I. 16581. Formerly from Portugal.

249944. C.P.I. 16582. Formerly from Portugal.

249945. ACANTHOSICYOS HORRIDA Welw. Cucurbitaceae.

From South West Africa. Seeds presented by the Director of Agriculture, Windhoek. Received Aug. 12, 1958.

249946 to 249999.

From Iran. Seed collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 12, 1958.

Collected June 1, 2, and 3, 1958, on Ahvaz-Dizful road, via Shush and Andimishk, unless otherwise noted.

249946 to 249949. CARTHAMUS GLAUCUS Bieb. Asteraceae.

249946. Col. No. K871.

249947. Col. No. K882. Flower blue.

249948. Col. No. K883. Flower white.

249949. Col. No. K895.

249950 to 249953. CARTHAMUS LANATUS L.

249950. Col. No. K857. Flowers light yellow.

249951. Col. No. K860.

249952. Col. No. K867. East of sugar cane field, old site of Haft Tape. Flowers light yellow.

249953. Col. No. K869. Flowers light yellow.

249954 to 249980. CARTHAMUS OXYACANTHA Bieb.

249954. Col. No. K827. Plant pubescent and glabrous.

249955. Col. No. K828. Six miles north of Abadan. Plant vigorous, pubescent, glabrous.

249956. Col. No. K831. Fifty-four miles north of Abadan. Plant pubescent, glabrous; heads small.

249957. Col. No. K832. Near airport, Ahvaz. Plant to 30 inches high, pubescent, glabrous.

249958. Col. No. K833. Ten miles east of Ahvaz. Plant to 12 inches high; pubescent.

249959. Col. No. K834. Seven miles east of Ahvaz. Plant to 30 inches high, pubescent.

249960. Col. No. K835. Plant to 30 inches high, glabrous.

249961. Col. No. K837. Three miles east of Ahvaz. Plants pubescent.

249962. Col. No. K838. Four and one-half miles south of Ahvaz. Plant to five feet high, vigorous.

249963 to 249975. Plants pubescent.

249963. Col. No. K842.

249964. Col. No. K843.

249965. Col. No. K851.

249966. Col. No. K858.

249967. Col. No. K861.

249968. Col. No. K863. Canefield south of Shush.

249969. Col. No. K866.

249970. Col. No. K870.

249971. Col. No. K872.

249972. Col. No. K873. Fifteen miles north of Shush.

249973. Col. No. K880.

249974. Col. No. K881.

249975. Col. No. K888.

249976 to 249979. Glabrous.

249976. Col. No. K889. Fifteen miles southeast of Dizful.

249977. Col. No. K890. Eighteen miles southeast of Dizful.

249978. Col. No. K892. West of Roman Aqueduct ruins, Shush.

249979. Col. No. K893. Junction south of Shushtar.

249980. Col. No. K894. Ten miles south of Shushtar Junction.

249981 and 249982. CICER ARIETINUM L. Fabaceae. **Chickpea.**

249981. Col. No. K822.

249982. Col. No. K841.

249983. HORDEUM SPONTANEUM C. Koch Poaceae. **Barley.**

Col. No. K865.

249984. HORDEUM sp.

Col. No. K793.

249985. HORDEUM sp.

Col. No. K844. Twenty-eight miles north of Ahvaz. Threshing area, El Hahy.

249986. HORDEUM sp.

Col. No. K845.

249987. HORDEUM sp.

Col. No. K874. Threshed grain.

249988. HORDEUM sp.

Col. No. K875.

249989 to 249993. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

249989. Col. No. K782. Tabriz.

249990. Col. No. K783. Tehran.

249991. Col. No. K784. Hamedan.

249992. Col. No. K813. 'Bazrack'.

249993. Col. No. K839. Bazaar in Ahvaz.

249994 to 249996. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

249994. Col. No. K796. Yazd.

249995. Col. No. K797. Hamedan.

249996. Col. No. K825.

249997. PHALARIS MINOR Retz. Poeceae. **Littleseed canarygrass**

Col. No. K830. Plant to 20 inches high.

249998 to 249999. PHALARIS CANARIENSIS L. **Canarygrass**

249998. Col. No. K794.

249999. Col. No. K795. 'Katan'.

250000. CARTHAMUS sp. Asteraceae.

From Pakistan. Seeds presented by the United States Embassy, Peshawar. Received August 13, 1958.

250001. POA sp. Poaceae.

From Yugoslavia. Plants collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 13, 1958.

Col. No. 17248. Lake Ohrid, Macedonia. Elevation 3,000 feet. Fine-weaved diminutive perennial forming dense, close turf.

250002. GLYCINE MAX (L.) Merr. Fabaceae. **Soybean.**

From Poland. Seeds presented by an unknown donor. Received Aug. 13, 1958. 'Bydgoska 0 52'.

250003 to 250052.

From Iran and Egypt. Seed collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 13, 1958.

(Collected June 1, 2, and 3, 1958, Ahvaz-Dizful road via Shush and Andimishk, Iran, unless otherwise noted.)

250003. DICHANTHIUM ANNULATUM (Forsk.) Stapf Poaceae. **Palwan.**

Col. No. K887.

250004. BRASSICA RAPA L. Brassicaceae. **Turnip.**

Col. No. K973. Bazaar, Cairo, Egypt.

250005. BROMUS HORDEACEUS L. Poaceae.

Col. No. K829. Plant to 10 inches high.

250006 to 250012. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

250006. Col. No. K787.

250007. Col. No. K788.

250008. Col. No. K814. Hashhad.

250009. Col. No. K815.

250010. Col. No. K816.

250011. Col. No. K817.

250012. Col. No. K818.

250013. CARTHAMUS sp.

Col. No. K868. Flowers blue; heads early.

250014. CARTHAMUS sp.

Col. No. K879.

250015. CARTHAMUS sp.

Col. No. K884. Flowers light yellow; sterile.

250016. CARTHAMUS sp.

Col. No. K891.

250017. CENTAUREA sp. Asteraceae.

Col. No. K885. Flowers yellow.

250018. CEPHALARIA sp. Dipsacaceae.

Col. No. K855.

250019. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

Col. No. K800.

250020. LACTUCA SATIVA L. Cichoriaceae. **Garden lettuce.**

Col. No. K1020. Grown in upper Egypt. Seeds contain about 30% edible oil.

250021. LEPIDIUM LATIFOLIUM L. Brassicaceae. **Pepperweed.**

Col. No. K972. 'Ghurgeer'. Bazaar, Cairo, Egypt.

250022. LEPIDIUM SATIVUM L. **Garden cress.**

Col. No. K979. 'Rashed'. Bazaar, Cairo, Egypt.

250023. LOLIUM MULTIFLORUM Lam. Poeceae. **Italian ryegrass.**

Col. No. K803. 'Chaman'. Lawngrass.

250024. ONOBRYCHIS VICIAEFOLIA Scop. Fabaceae. **Sainfoin.**

Col. No. K805. 'Espers'.

250025. SETARIA ITALICA (L.) Beauv. Poaceae. **Foxtail millet.**

Col. No. K802. 'Arzan.'

250026 to 250028. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

250026. Col. No. K785.

250027. Col. No. K786.

250028. Col. No. K859. Shattering perennial, border of field.

250029 to 250032. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

250029. Col. No. K778. Teheran bazaar.

250030. Col. No. K779.

250031. Col. No. K780.

250032. Col. No. K781.

250033. SORGHUM BICOLOR (L.) Moench. Poaceae.

250034. TRIFOLIUM CAMPESTRE Schreb. Fabaceae. **Large hop clover.**

Col. No. K852. Plant to eight inches high.

250035 to 250038. TRIFOLIUM RESUPINATUM L. **Persian clover.**

250035. Col. No. K798.

250036. Col. No. K826.

250037. Col. No. K852. Plant to 10 inches high, abundant.

250038. Col. No. K854.

250039 to 250050. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

250039. Col. No. K789. From Shahriar.

250040. Col. No. K790. Varamen. Best quality.

250041. Col. No. K791.

250042. Col. No. K792. A mixture from Tehran dealers.

250043. Col. No. K846.

250044. Col. No. K847.

250045. Col. No. K848.

250046. Col. No. K849.

250047. Col. No. K850.

250048. Col. No. K876.

250049. Col. No. K877.

250050. Col. No. K878.

250051. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. K821.

250052. ZEA MAYS L. Poaceae. **Corn.**

Col. No. K823.

250053 to 250064. HEVEA BRASILIENSIS (A. Juss.) Muell.-Arg. Euphorbiaceae. **Para rubber tree.**

From Malaya. Clones presented by the Rubber Research Institute of Malaya, Kuala Lumpur. Received Aug. 14, 1958.

Grown at Rubber Research Institute Experiment Station, Sungei Bulch, Selangor.

250053. 'AVROS 385'.

250054. GX 20899.

250055. GX 20900.

250056. GX 20908.

250057. GX 20909.

250058. PR. 226.

250059. PR 228.

250060. PR 231.

250061 to 250065.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 14, 1958.

250061. IRIS sp. Iridaceae.

Col. No. 17254. Lake Prespa, Macedonia. Elevation 3,500 feet. Plants shoulder high in swamp.

250062. PRUNUS AVIUM L. Amygdalaceae. **Sweet cherry.**

Col. No. 17227. West of Mavrosko Lake, Macedonia. Elevation 3,500 feet. Fruits purchased from mountaineer.

250063 to 250065. PRUNUS CERASIFERA Ehrh. **Myrobalan plum.**

250063. Col. No. 17164. Steubel, north of Vranje. Fruits sweet, small, yellow.

250064. Col. No. 17165. Fifteen miles north of Vranje. Foliage dark green; fruits dark red, sour when ripe.

250065. Col. No. 17166. Fifteen miles north of Vranje. Tree medium size; branches long; foliage light green; fruits yellowish, with bright pink flush.

250066. BROMUS ARVENSIS L. Poaceae. **Field brome.**

From Sweden. Seed presented by the Swedish Seed Association, Svalof. Received Aug. 14, 1958.

'Svalof'.

250067 to 250071.

From Australia. Seeds presented by the Commonwealth Scientific and Industrial Research Organization, Canberra. Received Aug. 14, 1958.

250067. LUPINUS ANGUSTIFOLIUS L. Fabaceae. **Blue lupine.**

Formerly from New Zealand.

250068. LUPINUS LUTEUS L. **European yellow lupine.**

C. P. I. 16360. Collected in South Africa.

250069 to 250071. LUPINUS TERMINUS Forsk. **Lupine.**

250069. C.P.I. 15533. Collected in the Sudan.

250070. C.P.I. 17446. ECR/1448. Formerly from the Sudan.

250071. C.P.I. 17830. K51152. Formerly from Kenya.

250072 and 250073. TRIFOLIUM ALEXANDRINUM L. Fabaceae. **Berseem clover.**

From Israel. Seed presented by the Agricultural Research Station, Rehovot. Received Aug. 15, 1958.

250072. 'Fahli'. Single cut.

250073. 'Mesquavi'. Multicut.

250074 to 250107.

From Egypt. Seed collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 15, 1958.

Purchased in a Cairo bazaar, unless otherwise noted.

250074. CANAVALIA ENSIFORMIS (L.) DC. Fabaceae. **White jackbean.**

Col. No. K993.

250075 to 250083. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

250075. Col. No. K1011. 'Urtum'; 'Gurtum'.

250076. Col. No. K1012.

250077. Col. No. K1013.

250078. Col. No. K1014.

250079. Col. No. K1015.

250080. Col. No. K1016.

250081. Col. No. K1017. From Said.

250082. Col. No. K1018. From Oil Crops Section, Plant Breeding Station, Giza. Plant spineless.

250083. Col. No. K1019. From Oil Crops Section, Plant Breeding Station, Giza. Plant spiny.

250084. CORCHORUS OLITORIUS L. Tiliaceae. **Jute.**

Col. No. K971. 'Molakhia'.

250085. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

Col. No. K998. 'Abadsens'.

250086 and 250087. HIBISCUS CANNABINUS L. Malvaceae. **Kenaf.**

250086. Col. No. K989. 'Til'.

250087. Col. No. K989. 'Til'.

250088 to 250093. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

250088. Col. No. K1005.

250089. Col. No. K1006. 'Katan'.

250090. Col. No. K1007. 'Katan'.

250091. Col. No. K1008.

250092. Col. No. K1009. 'Katan'.

250093. Col. No. K1010. 'Katan'.

250094. LUPINUS ALBUS L. Fabaceae. **White lupine.**

Col. No. K992. 'Termis'.

250095. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

Col. No. K997.

250096. ECHINOCHLOA CRUSGALLI (L.) Beauv. Poaceae. **Barnyard grass.**

Col. No. K991. 'Naba'.

250097. PHALARIS CANARIENSIS L. Poaceae. **Canarygrass.**

Col. No. K990.

250098. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

Col. No. K999.

250099 to 250103. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

250099. Col. No. K1000. 'Simsim'.

250100. Col. No. K1001. 'Simsim'.

250101. Col. No. K1002. 'Simsim'.

250102. Col. No. K1003. 'Simsim'.

250103. Col. No. K1004. 'Simsim'.

250104. SORGHUM SUDANENSE (Piper) Stapf Poaceae. **Sudangrass.**

Col. No. K987. 'Bezra'. Broomcorn type.

250105. TRIFOLIUM ALEXANDRINUM L. Fabaceae. **Berseem clover.**

Col. No. K996. 'Burseem'.

250106. TRIGONELLA FOENUM-GRAECUM L. Fabaceae. **Fenugreek.**

Col. No. K995. 'Helva'.

250107. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. K994. 'Lubia'.

250108. SPARTINA TOWNSENDII H. & J. Groves Poaceae. **Cordgrass.**

From Great Britain. Plants presented by the Dunn Farms Seeds, Salisbury, Wiltshire, England. Received Aug. 15, 1958.

250109. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

From Spain. Seed presented by Lewis P. Van Wald, Rota. Received Aug. 18, 1958.

250110 to 250112. SOLANUM TUBEROSUM L. Solanaceae. **Potato.**

From Brazil. Tubers presented by F. F. Guimaraes, Domingas Petrolini, Rio Grande. Received Aug. 18, 1958.

250110. B2969–15.

250111. X598–4.

250112. Z806–1.

250113 to 250115.

From the British West Indies. Presented by the Imperial College of Tropical Agriculture, St. Augustine, Trinidad. Received Aug. 18, 1958.

250113. MUCUNA BENNETTII F. Muell. Fabaceae. (Plants.)

250114. MUCUNA NOVOGUINEENSIS Scheff. (Plants.)

250115. MUCUNA ROSTRATA Benth. (Seeds.)

250116. HYPTIS SPICIGERA Lam. Menthaceae.

From Gambia. Seeds presented by the Department of Agriculture, Cape St. Mary. Received Aug. 18, 1958.

250117 and 250118. RHEUM RHAPONTICUM L. Polygonaceae. **Common rhubarb.**

From the Netherlands. Seeds presented by the Institute of Horticultural Plant Breeding, Wageningen. Received Aug. 19, 1958.

250117. No. 58004. 'Appleton's Forcing'.

250118. No. 58005. 'Timperley Early'.

250119 to 250122. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. **Sweetpotato.**

From Argentina. Tubers presented by the Facultad de Agronomia, Universidad Nacional de Tucuman, Tucuman. Received Aug. 19, 1958.

250119. 'Brasilera Blanca'.

250120. 'Brasilera Colorada'.

250121. 'Criolla Amarilla Blanca'.

250122. 'Criolla Blanca'.

250123 and 250124. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

From the Netherlands. Seeds presented by the Institute for Horticultural Plant Breeding, Wageningen. Received Aug. 20, 1958.

Originally from the U.S.S.R.

250123. 'Anait'. No. 56311.

250124. 'Oktjabrenok'. No. 57342.

250125. PINUS sp. Pinaceae.

From Guatemala. Seeds presented by the Ministerio de Agricultura, Guatemala City. Received Aug. 21, 1958.

250126 to 250239.

From Pakistan. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 22, 1958.

250126. HIBISCUS ESCULENTUS L. Malvaceae. **Okra.**

Col. No. K640. Gujrat bazaar.

250127 and 250128. BRASSICA OLERACEA var. BOTRYTIS L. Brassicaceae. **Broccoli.**

250127. Col. No. K643. Gujrat bazaar.

250128. Col. No. K644. 'Phool Ghabi'. Gujrat bazaar.

250129. BRASSICA CAMPPESTRIS L. **Bird rape.**

Col. No. K391. Kharianwala, 28 miles from Lahore, road to Lyallpur.

250130. BRASSICA JUNCEA (L.) Coss. **Chinese mustard.**

Col. No. K398. District Gujrat, 70 miles north of Lahore.

250131. BRASSICA sp.

Col. No. K402. District Gujrat.

250132. BRASSICA CAMPESTRIS var. SARSON Prain **Sarson.**

Col. No. K404. District Gujrat, Village Marja, nine miles north of Gujrat.

250133. BRASSICA sp.

Col. No. K412. East of Gujrat, 16 miles from Bhajowal.

250134. BRASSICA JUNCEA (L.) Coss. **Chinese mustard.**

Col. No. K414. Twelve miles northeast of Gujrat.

250135. BRASSICA NAPUS L. **Rape.**

Col. No. K421. Rawalpindi-Murree road.

250136. BRASSICA CAMPESTRIS L. **Bird rape.**

Col. No. K430. Rawalpindi-Murree road.

250137. BRASSICA sp.

Col. No. K443. Near Abbotabad.

250138. BRASSICA CAMPESTRIS L. **Bird rape.**

Col. No. K529. Peshawar bazaar.

250139 and 250140. BRASSICA JUNCEA (L.) Coss. **Chinese mustard.**

250139. Col. No. K615. Lahore bazaar.

250140. Col. No. K628. Gujrat bazaar.

250141. CAPSICUM FRUTESCENS L. Solanaceae. **Redpepper.**

Col. No. K488. Thirty-seven miles east of Rawalpindi.

250142 to 250144. CICER ARIETINUM L. Fabaceae. **Chickpea.**

250142. Col. No. K422. Rawalpindi-Murree road.

250143. Col. No. K516. Peshawar bazaar.

250144. Col. No. K573. Campbellpur bazaar.

250145 and 250146. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

250145. Col. No. K631. 'Tinda'. Gujrat bazaar.

250146. Col. No. K642. 'Tarbooz'. Gujrat bazaar.

250147. CUCUMIS SATIVUS L. Cucurbitaceae. **Cucumber.**

Col. No. K645. Gujrat bazaar.

250148. DIOSPYROS sp. Diospyraceae.

Col. No. K485. Thirty-seven miles east of Rawalpindi.

250149 to 250152. ERUCA SATIVA Mill. Brassicaceae. **Rocket-salad.**

250149. Col. No. K392. Kharianwala, 28 miles from Lahore, Lyallpur road.

250150. Col. No. K393. 'Tara Mera'. Kharianawala, 28 miles from Lahore, Lyallpur road.

250151. Col. No. K417. Beowali, three miles from Gujrat, Ralapur Tattan road.

250152. Col. No. K431. 'Tara Mera'. Rawalpindi-Murree road.

250153 to 250158. LENS CULINARIS Medic. Fabaceae. **Lentil.**

250153. Col. No. K424. Rawalpindi-Murree road.

250154. Col. No. K449. Near Abbotabad.

250155. Col. No. K495. Road to Koth, 37 miles east of Rawalpindi.

250156. Col. No. K521. Peshawar bazaar.

250157. Col. No. K632. Gujrat bazaar.

250158. Col. No. K633. Gujrat bazaar.

250159. LEPIDIUM SATIVUM L. Brassicaceae. **Garden cress.**

Col. No. K526. Peshawar bazaar.

250160. LUFFA CYLINDRICA (L.) Roemer Cucurbitaceae. **Suakwa towelgourd.**

Col. No. K648. Gujrat bazaar.

250161 and 250162. PHASEOLUS AUREUS Roxb. Fabaceae. **Mung bean.**

250161. Col. No. K486. Road to Kotli, 37 miles east of Rawalpindi.

250162. Col. No. K520. Peshawar bazaar.

250163 and 250164. PHASEOLUS MUNGO L. **Urd.**

250163. Col. No. K484. Road to Kotli, 37 miles east of Rawalpindi.

250164. Col. No. K519. Peshawar bazaar.

250165 and 250166. PHASEOLUS VULGARIS L. **Common bean.**

250165. Col. No. K452. Haupur bazaar.

250166. Col. No. K518. Peshawar bazaar.

250167 and 250168. RAPHANUS SATIVUS L. Brassicaceae. **Radish.**

250167. Col. No. K425. Rawalpindi-Murree road.

250168. Col. No. K646. Gujrat bazaar.

250169. RUBUS sp. Rosaceae.

Col. No. K475. Kotli, 37 miles east of Rawalpindi.

250170. RUBUS sp.

Col. No. K500.

250171 to 250239. Received August 25, 1958.

250171 to 250173. CARTHAMUS LANATUS L. Asteraceae.

250171. Col. No. K460. Six and half miles west of Abbotabad. Plants to 24 inches high.

250172. Col. No. K578. Forty-one miles east of Peshawar. Plants to 26 inches high; flowers light yellow.

250173. Col. No. K587. One half mile west of Peshawar, Khyber Pass Road.

250174 to 250178. CARTHAMUS OXYACANTHA Bieb.

250174. Col. No. K446. Abbottabad, three miles west of Haripur.

250175. Col. No. K571. Six miles south of Campbellpur.

250176. Col. No. K584. Six miles south of Mardan.

250177. Col. No. K586. One mile west of Peshawar, Khyber Pass Road. Flowers light yellow.

250178. Col. No. K650. Jalalpur, east of Gujrat.

250179 to 250208. CARTHAMUS TINCTORIUS L. **Safflower.**

250179. Col. No. K416. Five miles from Gujrat, Jalalpur Gattan road.

250180. Col. No. K419. 'Beowali'. Three miles northeast of Gujrat, Jalalpur-Jattan road.

250181. Col. No. K62. 'Kusumba'. Haripur, 20 miles west of Abbottabad.

250182. Col. No. K468. 'Kusumba'. Rawalpindi bazaar.

250183. Col. No. K503. Murree bazaar.

250184. Col. No. K504. Murree bazaar.

250185. Col. No. K505. (No field note.)

250186. Col. No. K513. Raja bazaar, Rawalpindi.

250187 to 250191. Lahore bazaar.

250187. Col. No. K591.

250188. Col. No. K593.

250189. Col. No. K594.

250190. Col. No. K597.

250191. Col. No. K599.

250192. Col. No. K622. Gujrat bazaar.

250193. Col. No. K623. Gujrat bazaar.

250194. Col. No. K649. Jalalpur, east of Gujrat.

250195. Col. No. K652. 'Kusumba'. Five miles northeast of Gujrat.

250196 to 250205. Laddahsadda, four miles east of Gujrat.

250196. Col. No. K653.

250197. Col. No. K654.

250198. Col. No. K655.

250199. Col. No. K656.

250200. Col. No. K657.

250201. Col. No. K658.

250202. Col. No. K659.

250203. Col. No. K660.

250204. Col. No. K661.

250205. Col. No. K662.

250206 to 250208. Wazirabad bazaar.

250206. Col. No. K663.

250207. Col. No. K664.

250208. Col. No. K665.

250209. CARTHAMUS sp.

Col. No. K410. 'Pohli'. East of Gujrat, 16 miles from Bhagowal.

250210. CICER ARIETINUM L. Fabaceae. **Chickpea.**

Col. No. K448. Abbottabad.

250211 to 250214. CYAMOPSIS TETRAGONOLOBA (L.) Taub. Fabaceae. **Guar.**

Gujrat bazaar.

250211. Col. No. K634.

250212. Col. No. K635.

250213. Col. No. K636.

250214. Col. No. K637.

250215. PENNISETUM SPICATUM (L.) Willd. Poaceae. **Pearl millet.**

Col. No. K647. Bajra.

250216 and 250217. LINUM STRICTUM L. Linaceae. **Flax.**

250216. Col. No. K434. Rawalpindi-Murree road. Flowers small, yellow.

250217. Col. No. K579. Near Sadikabad, 35 miles northeast of Peshawar. Plant to 10 inches high.

250218 to 250224. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

250218. Col. No. K399. Gujrat, 70 miles north of Lahore.

250219. Col. No. K415. Five miles from Jalalpur Jattan road.

250220. Col. No. K418. Three miles northeast of Gujrat, Jalalpur Jattan road.

250221. Col. No. K457. Near Abbottabad.

250222. Col. No. K466. Hassan Abdal.

250223. Col. No. K625. Gujrat bazaar.

250224. Col. No. K651. Jalalpur, east of Gujrat.

250225 and 250226. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

250225. Col. No. K459. Terrace margin, six miles west of Abbottabad.

250226. Col. No. K620. Old Hindu Temple, Gujrat, east of large pool. Plants to 15 feet high.

250227 to 250229. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

250227. Col. No. K429. Rawalpindi-Murree road.

250228. Col. No. K613. Lahore bazaar.

250229. Col. No. K614. Lahore bazaar.

250230 to 250234. SORGHUM BICOLOR (L.) Moench Poaceae.

250230. Col. No. K451. Near Abbottabad.

250231. Col. No. K610. Lahore bazaar.

250232. Col. No. K638. Gujrat bazaar.

250233. Col. No. K639. Gujrat bazaar.

250234. Col. No. K641. Gujrat bazaar.

250235. TRIGONELLA FOENUM-GRAECUM L. Fabaceae. **Fenugreek.**

Col. No. K487. Thirty-seven miles east of Rawalpindi.

250236 and 250237. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

250236. Col. No. K427. Rawalpindi-Murree road.

250237. Col. No. K630. Gujrat bazaar.

250238. VIGNA CYLINDRICA (L.) Skeels Fabaceae. **Catiang-pea.**

Col. No. K522. Peshawar bazaar.

250239. ZEA MAYS L. Poaceae. **Corn.**

Col. No. K489. Kotli road, 37 miles east of Rawalpindi.

250240 to 250288. SACCHARUM (hybrids). Poaceae. **Sugarcane.**

From Australia. Cuttings presented by the Northern Sugar Experiment Station, Brisbane, Queensland. Received Aug. 25, 1958.

250240. 57NG 5.
250241. 57NG 10.
250242. 57NG 31.
250243. 57NG 34.
250244. 57NG 35.
250245. 57NG 36.
250246. 57NG 37.
250247. 57NG 41.
250248. 57NG 43.
250249. 57NG 52.
250250. 57NG 57.
250251. 57NG 59.
250252. 57NG 67.
250253. 57NG 69.
250254. 57NG 71.
250255. 57NG 73.
250256. 57NG 79.
250257. 57NG 80.
250258. 57NG 81.
250259. 57NG 88.
250260. 57NG 99.
250261. 57NG 92.
250262. 57NG 95.
250263. 57NG 100.
250264. 57NG 111.
250265. 57NG 116.
250266. 57NG 123.
250267. 57NG 126.
250268. 57NG 133.
250269. 57NG 136.
250270. 57NG 146.
250271. 57NG 149.
250272. 57NG 150.
250273. 57NG 154.
250274. 57NG 156.
250275. 57NG 161.
250276. 57NG 163.
250277. 57NG 166.
250278. 57NG 169.
250279. 57NG 172.
250280. 57NG 168.
250281. 57NG 187.
250282. 57NG 199.
250283. 57NG 220.
250284. 57NG 223.
250285. 57NG 224.
250286. 57NG 225.
250287. 57NG 230.
250288. 57NG 240.

250289. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**

From the Netherlands. Seeds presented by the Rijksproefstation voor Zaadcontrole Wageningen, Wageningen. Received Aug. 26, 1958.

RPV 2.

250290 to 250418.

From West Pakistan. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 26, 1958.

250290. ASTRAGALUS sp. Fabaceae.

Col. No. K477.

250291 to 250296. CARTHAMUS LANATUS L. Asteraceae.

250291. Col. No. K453. Two miles southeast of Haripur. Plant to 30 inches high; flowers pale.

250292. Col. No. K539. Risalpur, north of Nowshera.

250293. Col. No. K562. Two miles south of Peshawar. Plant to 30 inches high; flowers white.

250294. Col. No. K572. Plant to 30 inches high; flowers white.

250295. Col. No. K582. Plants to 30 inches high.

250296. Col. No. K583. Plants to 30 inches high; flowers light-yellow.

250297 to 250334. CARTHAMUS OXYACANTHA Bieb.

250297. Col. No. K385. Nine miles from Lyallpur, new road to Lahore.

250298. Col. No. K386. Eighteen miles from Lyallpur, new road to Lahore.

250299. Col. No. K387. Thirty-two miles from Lyallpur, new road to Lahore.

250300. Col. No. K388. Forty miles from Lyallpur, new road to Lahore.

250301. Col. No. K394. Twenty-eight miles from Lahore, new road to Lyallpur.

250302. Col. No. K395. Twenty-four miles north of Lahore, Grand Trunk road.

250303. Col. No. K396. 'Pohli'. One mile south of Gujranwala, Grand Trunk road.

250304. Col. No. K408. 'Pohli'. Southeast of Majara.

250305. Col. No. K420. 'Pohli'. Rawalpindi-Muree road.

250306. Col. No. K426. 'Pohli'.

250307. Col. No. K444. 'Pohli'. One mile south of Nicholson Monument, 15 miles from Rawalpindi.

250308. Col. No. K445. 'Pohli'. East of Hassan Abdal.

250309. Col. No. K454. 'Pohli'.

250310. Col. No. K463. Below ruins, Jaulian.

250311. Col. No. K464. Five miles south of Hassan Abdal.

250312. Col. No. K473. Thirty-seven miles east of Rawalpindi.

250313. Col. No. K540.

250314. Col. No. K541. Matures later than typical form.

250315. Col. No. K542. Flowers white.

250316. Col. No. K545. One and one-half miles south of Rashaki.

250317. Col. No. K546.

250318. Col. No. K552. Five miles west of Mardan.

250319. Col. No. K553. Six miles north of Peshawar.

250320. Col. No. K555. Six and one-half miles south of Pabbi.

250321. Col. No. K561. Two miles south of Peshawar.

250322. Col. No. K563. Four miles south of Peshawar.

250323. Col. No. K564. Twelve miles south of Peshawar.

250324. Col. No. K565. Three and one-half miles east of Kohat.

250325. Col. No. K566. Fifteen miles east of Kohat.

250326. Col. No. K567. One-half mile east of Indus River from Kohat-Rawalpindi bridge.

250327. Col. No. K568. Ten miles east of Indus River from Kohat-Rawalpindi bridge.

250328. Col. No. K569. Twenty-six miles from Indus River from Kohat-Rawalpindi bridge.

250329. Col. No. K570. Nine miles south of Campbellpur.

250330. Col. No. K576. Eight miles east of Attock.

250331. Col. No. K577. Forty-one miles east of Peshawar.

250332. Col. No. K581. Five to six miles south of Sadikabad. Plants extremely variable, many sterile, some have a compact growth habit.

250333. Col. No. K585. One and one-half miles west of Peshawar.

250334. Col. No. K588. One mile west of Peshawar.

250335 to 250354. CARTHAMUS TINCTORIUS L. **Safflower.**

250335. Col. No. K400. Leaves spiny; flowers red.

250336. Col. No. K403. 'Kusamba'.

250337. Col. No. K406. Rust present.

250338. Col. No. K407.

250339. Col. No. K456.

250340. Col. No. K458.

250341. Col. No. K467. 'Kusumba'. Firdausi Dawakhana, Sadar bazaar, Rawalpindi.

250342. Col. No. K469. 'Kusumba'. Rawalpindi bazaar.

250343. Col. No. K470. 'Kusumba'. Rawalpindi bazaar.

250344. Col. No. K471. 'Kusumba'. Rawalpindi bazaar.

250345. Col. No. K472. 'Kusumba'. Rawalpindi bazaar.

250346. Col. No. K505. Mutree bazaar.

250347. Col. No. K514. Peshawar bazaar.

250348. Col. No. K532. Source unknown.

250349. Col. No. K533. Source unknown.

250350. Col. No. K592. Lahore bazaar.

250351. Col. No. K595. Lahore bazaar.

250352. Col. No. K596. Lahore bazaar.

250353. Col. No. K598. Lahore bazaar.

250354. Col. No. K621. Gujrat bazaar.

250355. CARTHAMUS sp.

Col. No. K461.

250356. CARTHAMUS sp.

Col. No. K580. Thirty-five miles northeast of Peshawar.

250357 to 250360. CYAMOPSIS TETRAGONOLOBA (L.) Taub. Fabaceae. **Guar.**

250357. Col. No. K616. **250359.** Col. No. K618.

250358. Col. No. K617. **250360.** Col. No. K619.

250361. HEDYSARUM CORONARIUM L. Fabaceae. **Sulla.**

Col. No. K465. Five miles south of Hassanabdal. Plants not eaten by goats.

250362 and 250363. HIBISCUS CANNABINUS L. Malvaceae. **Kenaf.**

250362. Col. No. K517.

250363. Col. No. K547. Mardan bazaar.

250364. HORDEUM sp. Poaceae. **Barley.**

Col. No. K432.

250365. HORDEUM sp.

Col. No. K483.

250366. HORDEUM sp.

Col. No. K493. Field near rest house, Kotli. Six-row barley.

250367. HORDEUM sp.

Col. No. K629.

250368. LINUM STRICTUM L. Linaceae. **Flax.**

Col. No. K455. Plants to ten inches high.

250369 to 250387. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

250369. Col. No. K389. Kharianwala, 28 miles from Lahore, Lyallpur road.

250370. Col. No. K401. Deona Juliana, seven miles north of Gujrat, Gujrat district.

250371. Col. No. K405.

250372. Col. No. K411.

250373. Col. No. K413. Twelves miles northeast of Gujrat.

250374. Col. No. K428.

250375. Col. No. K447. Haripur bazaar.

250376. Col. No. K492.

250377. Col. No. K515. Peshawar bazaar.

250378. Col. No. K530.

250379. Col. No. K534.

250380. Col. No. K535.

250381. Col. No. K536.

250382. Col. No. K537.

250383. Col. No. K574.

250384. Col. No. K600. 'Alsi'.

250385. Col. No. K624.

250386. Col. No. K626.

250387. Col. No. K627.

250388. MEDICAGO ASCHERSONIANA Urban Fabaceae.

Col. No. K499.

250389 and 250390. MEDICAGO POLYMORPHA var. VULGARIS (Benth.) Shinners **California burclover.**

250389. Col. No. K435. Plants abundant.

250390. Col. No. K544.

250391. SETARIA ITALICA (L.) Beauv. Poaceae. **Foxtail millet.**

Col. No. K528.

250392. ECHINOCHLOA SPIRALIS Vasing Poaceae.

Col. No. K607.

250393 to 250395. PENNISETUM SPICATUM (L.) Willd. Poaceae. **Pearl millet.**

250393. Col. No. K450.

250394. Col. No. K527.

250395. Col. No. K605. 'Bajra'.

250396 to 250398. RICINUS COMMUNIS L. Ephorbiaceae. **Castorbean.**

250396. Col. No. K440. Plant to 20 feet high.

250397. Col. No. K531. Nowshera bazaar, 25 miles east of Peshawar.

250398. Col. No. K538.

250399 to 250401. SEASMUM INDICUM L. Pedaliaceae. **Sesame.**

250399. Col. No. K390. Kharianwala.

250400. Col. No. K611.

250401. Col. No. K612.

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250402 to 250406. SORGHUM BICOLOR (L.) Moench Poaceae.

250402. Col. No. K490.

250403. Col. No. K523.

250404. Col. No. K524.

250405. Col. No. K425.

250406. Col. No. K609.

250407. TRIFOLIUM REPENS L. Fabaceae. **Whiteclover.**

Col. No. K512. Murree-Kashmir Point road. Elevation 7,000 feet. Common roadside plants.

250408 to 250414. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

250408. Col. No. K397. Juliand, 70 miles north of Lahore, Gujrat District.

250409. Col. No. K433.

250410. Col. No. K441. Road to Hassan Abdal.

250411. Col. No. K474. Near shrine, seven miles from Kotli.

250412. Col. No. K481. Kahoti, five miles from Kotli.

250413. Col. No. K494.

250414. Col. No. K575.

250415. VIGNA CYLINDRICA (L.) Skeels Fabacae. **Catjang-pea.**

Col. No. K549.

250416. VIGNA SINENSIS (Torner) Savi **Common cowpea.**

Col. No. K604.

250417 and 250418. ZEA MAYS L. Poaceae.

250417. Col. No. K482.

250418. Col. No. K491.

250419 to 250448.

From Czechoslovakia. Seeds presented by the Academy of Science, Prague. Received Aug. 27, 1958.

250419 to 250424. BRASSICA OLERACEA var. CAPITATA L. Brassicaceae. **Cabbage.**

250419. 'Ditmarske Rane'.

250420. 'Dobrovodske Polopozdni'.

250421. 'Dobrovodske Pozdni'.

250422. 'Klokotske'.

250423. 'Kodanske Trzni'.

250424. 'Slava Holandu'.

250425 to 250430. LACTUCA SATIVA L. Cichoriaceae. **Garden lettuce.**

250425. 'Boettneruv'.

250426. 'Bohemia'.

250427. 'Detenicka Atrakce'.

250428. 'Melnicky Kral Maje'.

250429. 'Stupicky'.

250430. 'Stupicky Kamenac'.

250431 to 250437. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

250431. 'Condine Red'.

250432. 'Olomoucke'.

250433. 'Olomoucke Nizke'.

250434. 'Ostravske Rane'.

250435. 'Pruhonicky Universal'.

250436. 'Stupicke'.

250437. 'Stupicke Rane'.

250438 to 250448. PISUM SATIVUM L. Fabaceae. **Garden pea.**

250438. 'Libochovicky Rany'.

250439. 'Konservova Kralovna' (CSR).

250440. 'Karlovna Konservy'.

250441. 'Prebohaty'.

250442. 'Heinrichuv Rany'.

250443. 'Senator' (CSR).

250444. 'Zazrak z Kelvedonu'.

250445. 'Zazrak z Kilvedonu' (CSR).

250446. 'Libochovicky Urodny'.

250447. 'Lincoln' (CSR).

250448. 'Libochovicky Rany'.

250449. PYRUS COMMUNIS L. Malaceae. **Common pear.**

From Nepal. Scions presented by the United States Operations Mission, Katmandu. Received Sept. 3, 1958.

'Naspati'.

250450 and 250451.

From Yugoslavia. Stolons collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 27, 1958.

250450. FESTUCA OVINA var. GLAUCA (Lam.) Koch Poaceae.

Col. No. 17416. Arboretum, Volcji Potok, Ljubljana, Slovenia. Ornamental grass.

250451. FESTUCA SCOPARIA Hook. f.

Col. No. 17417. Arboretum, Volcji Potok, Ljubljana, Slovenia. Ornamental and lawn grass.

250452 and 250453. SACCHARUM (hybrids). Poaceae. **Sugarcane.**

From the Island of Reunion. Cuttings presented by the Station d'Essai de la Bretagne, St. Denis. Received Aug. 28, 1958.

250452. M147/44.

250453. R-397.

250454. PELAGODOXA HENRYANA Beccari Phoenicaceae. **Palm.**

From the Fiji Islands. Seeds collected by W. H. Hodge, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 8, 1958.

From the Suva Botanic Garden.

250455 to 250659.

From Egypt, Pakistan, and India. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Aug. 28, 1958.

250455 to 250459. From Egypt.

250455 to 250457. CARTHAMUS ALEXANDRINUS (Boiss.) Bornm. Asteraceae.

250455. Col. No. K1039. Ten miles from Alexandria. Flowers light blue.

250456. Col. No. K1042. Eighteen miles from Alexandria, Cairo road intersection.

250457. Col. No. K1044. One mile northwest of Alexandria, west end of Lake Mariout. Outer bracts long, inner bracts reduced.

250458 and 250459. CARTHAMUS LANATUS L.

250458. Col. No. K1024. University of Alexandria Experimental Farm, Abis. Plant to 30 inches high; flowers light yellow.

250459. Col. No. K1025. University of Alexandria Experimental Farm, Abis. Plant to 30 inches high.

250460 to 250472. CARTHAMUS OXYACANTHA Bied.
From Pakistan.

250460. Col. No. K274. Four miles south of National Stadium, Ferozepur-Lahore road.

250461. Col. No. K276. Twenty miles south of National Stadium, Ferozepur-Lahore road.

250462. Col. No. K279. Twenty-four miles south of National Stadium, Ferozepur-Lahore road.

250463. Col. No. K280. Thirty miles south of National Stadium, Ferozepur-Lahore road.

250464. Col. No. K281. Five miles west of Ferozepur-Lahore road turnoff, 30 miles south of National Stadium.

250465. Col. No. K282. Thirty miles south of Lahore, Ferozepur road.

250466. Col. No. K286. Two miles from Grand Trunk Road, old Lahore-Lyallpur road.

250467. Col. No. K288. Old Lahore-Lyallpur road.

250468. Col. No. K290. Thirty miles from Grand Trunk Road.

250469. Col. No. K292. Seventy miles from Grand Trunk Road.

250470. Col. No. K293. Seventy-seven miles from Grand Trunk Road.

250471. Col. No. K294. W. A. Shafer's residence.

250472. Col. No. K296. Lyallpur Agricultural College.

250473 to 250484. CARTHAMUS TINCTORIUS L. **Safflower.**

250473 to 250481. West Pakistan Experimental Plot, Lyallpur Agricultural College, Lyallpur.

250473. Col. No. K298.
250474. Col. No. K303.
250475. Col. No. K304.
250476. Col. No. K305.
250477. Col. No. K306.
250478. Col. No. K307.
250479. Col. No. K308.
250480. Col. No. K309.
250481. Col. No. K310.

250482 to 250484. Amritsar bazaar, India.

250482. Col. No. K668.

250483. Col. No. K671.

250484. Col. No. K672.

250485 to 250487. CROTALARIA JUNCEA L. Fabaceae. **Sunn-hemp.**

Amritsar bazaar, India.

250485. Col. No. K679.

250486. Col. No. K680.

250487. Col. No. K681.

250488. HIBISCUS CANNABINUS L. Malvaceae. **Kenaf.**

Col. No. K676. Amritsar bazaar, India.

250489 and 250490. HORDEUM VULGARE L. Poaceae. **Common barley.**

250489. Col. No. K376. Cereal Section, Lyallpur Agricultural College, Lyallpur, West Pakistan.

250490. Col. No. K1041. Fifteen miles from Alexandria, Egypt.

250491. HORDEUM sp.

Col. No. K277. Same as Col. No. K276, (P.I. 250461).

250492 to 250518. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

From Pakistan.

250492. Col. No. K275. Daulo Khurd, seven miles south of National Stadium, Ferozepur road.

250493. Col. No. K287. Mandiawala, 13 miles from Grand Trunk Road.

250494 to 250518. Lyallpur Agricultural College, Lyallpur.

250494. Col. No. K311.
250495. Col. No. K312.
250496. Col. No. K313.
250497. Col. No. K314.
250498. Col. No. K315.
250499. Col. No. K316.
250500. Col. No. K317.
250501. Col. No. K318.
250502. Col. No. K319.
250503. Col. No. K320.
250504. Col. No. K321.
250505. Col. No. K322.
250506. Col. No. K323.
250507. Col. No. K324.
250508. Col. No. K325.
250509. Col. No. K327.
250510. Col. No. K328.
250511. Col. No. K329.
250512. Col. No. K330.
250513. Col. No. K332.
250514. Col. No. K333.
250515. Col. No. K334.
250516. Col. No. K335.
250517. Col. No. K338.
250518. Col. No. K340.

250519. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

Col. No. K684. Amritsar bazaar, India.

250520 and 250521. SORGHUM BICOLOR (L.) Moench Poaceae.

250520. Col. No. K677. Amritsar bazaar, India.

250521. Col. No. K678. Amritsar bazaar, India.

250522. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. K673. Amritsar bazaar, India.

250523 to 250587. Collected June 13 to 19, 1958. From Egypt unless otherwise noted.

250523 to 250541. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

250523. Col. No. K1021. Three miles south of the pyramids. Heads 1.5 inches in diameter.

250524. Col. No. K1023. University of Alexandria Experimental Farm. Plant to 6.5 feet high; flowers red, 1.25 inches in diameter.

250525 to 250535. Warehouse, El Hag Menoufi el Said, Kena.

250525. Col. No. K1048.
250526. Col. No. K1049.
250527. Col. No. K1051.
250528. Col. No. K1052.
250529. Col. No. K1054.
250530. Col. No. K1056.
250631. Col. No. K1059.

250532. Col. No. K1060.

250533. Col. No. K1061.

250534. Col. No. K1062.

250535. Col. No. K1063.

250536. Col. No. K1067. Twab Moh Osman, Kusarn. Heads 1.75 inches in diameter; flowers yellow to red.

250537. Col. No. K1070. Hassan Rashwan Mosalin, Amansha near Sahag.

250538. Col No. K1071. Moh Abdul Baset, Shetata.

250539. Col. No. K1072. Sadik Abouzeid Selim.

250540. Col. No. K1074. Asyut bazaar.

250541. Col. No. K1076. Asyut.

250542. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

Col. No. K1090. Oil Crops Section, Plant Breeding Department, Ministry of Agriculture, Giza.

250543 to 250570. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

250543 to 250567. Lyallpur Agricultural College, Lyallpur, Pakistan.

250543. Col. No. K341.
250544. Col. No. K342.
250545. Col. No. K343.
250546. Col. No. K344.
250547. Col. No. K345.
250548. Col. No. K346.
250549. Col. No. K347.
250550. Col. No. K348.
250551. Col. No. K349.
250552. Col No. K350.
250553. Col. No. K351.
250554. Col. No. K352.
250555. Col. No. K353.
250556. Col. No. K354.
250557. Col. No. K355.
250558. Col. No. K356.
250559. Col. No. K357.
250560. Col. No. K358.
250561. Col. No. K359.
250562. Col. No. K360.
250563. Col. No. K361.
250564. Col. No. K362.
250565. Col. No. K363.
250566. Col. No. K364.
250567. Col. No. K365.

250568. Col. No. K1034. Alexandria bazaar.

250569. Col. No. K1035. Alexandria bazaar.

250570. Col. No. K1091. Giza.

250571. LOTUS CORNICULATUS L. Fabaceae. **Birdsfoot trefoil.**

Col. No. K1026. University of Alexandria Experiment Farm.

250572. LUPIUS ALBUS L. Fabaceae. **White lupine.**

Col. No. K1079. 'Termis'. Asyut bazaar.

250573 to 250575. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

250573. Col. No. K372. Lyallpur Agricultural College, Lyallpur, Pakistan.

250574. Col. No. K1087. Ministry of Agriculture, Giza.

250575. Col. No. K1088. Ministry of Agriculture, Giza.

250576 to 250580. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

250576. Col. No. K295. Lyallpur bazaar. Pakistan.

250577. Col. No. K1037. Alexandria bazaar.

250578. Col. No. K1038. Alexandria bazaar.

250579. Col. No. K1085. Oil Crops Section, Plant Breeding Department, Ministry of Agriculture, Giza.

250580. Col. No. K1086. Oil Crops Section, Plant Breeding Department, Ministry of Agriculture, Giza.

250581 to 250583. SORGHUM BICOLOR (L.) Moench Poaceae.

250581. Col. No. K1082.

250582. Col. No. K1083.

250583. Col. No. K1084.

250584 to 250586. TRITCUM AESTIVUM L. Poaceae. **Common wheat.**

250584. Col. No. K278. Twenty miles south of National Stadium, Ferozepur, Pakistan.

250585. Col. No. K289. Old road, Lahore to Lyallpur, Pakistan.

250586. Col. No. K382. Pakistan.

250587. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**
Col. No. K1029. Alexandria bazaar.

250588. CARTHAMUS ALEXANDRINUS (Boiss.) Bornm. Asteraceae.
Col. No. K1040. Thirteen miles from Alexandria, Egypt.

250589 to 250594. CARTHAMUS OXYACANTHA Bieb.

250589 to 250592. From Pakistan.

250589. Col. No. K283. Thirty miles south of Lahore, Ferozepur road.

250590. Col. No. K284. Thirty miles from Lahore, Multan road.

250591. Col. No. K285. Thirty-one miles from Lahore, Multan road.

250592. Col. No. K291. Near Poucheki, 50 miles from Grand Trunk road.

250593. Col. No. K686. West of Khalsa College, Amritsar, India.

250594. Col. No. K687. West of Khalsa College, Amritsar, India.

250595 to 250611. CARTHAMUS TINCTORIUS L. **Safflower.**

250595 to 250599. Lyallpur Agriculture College, Lyallpur, Pakistan.

250595. Col. No. K297.

250596. Col. No. K299.

250597. Col. No. K300.

250598. Col. No. K301.

250599. Col. No. K302.

250600 to 250603. Amritsar bazaar, India.

250600. Col. No. K666.

250601. Col. No. K667.

250602. Col. No. K669.

250603. Col. No. K670.

250604. Col. No. K1022. Three miles south of the pyramids, Egypt.

250605. Col. No. K1028. Alexandria bazaar, Egypt.

250606 to 250608. El Hag Menoufi el Said warehouse, Kena, Egypt.

250606. Col. No. K1050.

250607. Col. No. K1053.

250608. Col. No. K1055.

250609. Col. No. K1064. Warehouse, Qus, Egypt.

250610. Col. No. K1073. Sabet Khalil oil mill, Amansha, Egypt.

250611. Col. No. K1075. Asyut bazaar, Egypt.

250612. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

Col. No. K1089. Ministry of Agriculture, Giza, Egypt.

250613. HORDEUM VULGARE L. Poaceae. **Common barley.**

Col. No. K375. Cereal Section, Lyallpur Agricultural College, Lyallpur, Pakistan.

250614 to 250621. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

250614 to 250618. Lyallpur Agricultural College, Lyallpur, Pakistan.

250614. Col. No. K323.

250615. Col. No. K331.

250616. Col. No. K336.

250617. Col. No. K337.

250618. Col. No. K339.

250619 and 250620. Amritsar bazaar, India.

250619. Col. No. K682.

250620. Col. No. K683.

250621. Col. No. K1077. Asyut, Egypt.

250622 to 250624. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

250622 and 250623. Lyallpur Agricultural College, Lyallpur, Pakistan.

250622. Col. No. K373.

250623. Col. No. K374.

250624. Col. No. K1057. Kena, Egypt.

250625 and 250626. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

250625. Col. No. K1036. Alexandria bazaar, Egypt.

250626. Col. No. K1081. Asyut bazaar, Egypt.

250627. TRIGONELLA FOENUM-GRAECUM L. Fabaceae. **Fenugreek.**

Col. No. K1078. Asyut bazaar, Egypt.

250628 to 250633. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

Lyallpur Agricultural College, Lyallpur, Pakistan.

250628. Col. No. K378.

250629. Col. No. K379.

250630. Col. No. K380.

250631. Col. No. K381.

250632. Col. No. K383.

250633. Col. No. K384.

250634. VIGNA SINENSIS (Torner) Savi. Fabaceae. **Common cowpea.**

Col. No. K685. Amritsar bazaar, India.

250635 to 250659. Collected in Pakistan May 3 to 17, 1958.

250635. ANTHEMIS sp. Asteracea.

Col. No. K409. Southeast of Majra.

250636. CORIANDRUM SATIVUM L. Apiaceae. **Coriander.**

Col. No. K550. Mardan bazaar.

250637. COTINUS COGGYGRIA Scop. Anacardiaceae. **Smoketree.**

Col. No. K576. Near shrine, seven miles from Kotli.

250638. LEONTODON sp. Cichoriaceae.

Col. No. K439. Plant to six inches high; flowers blue.

250639. MALLOTUS PHILIPPINENSIS (Lam.) Muell.-Arg. Euphorbiaceae. **Kamalatree.**

Col. No. K478. Seeds said to yield an oil similar to castor oil.

250640 and 250641. PAPAVER SOMNIFERUM L. Papaveraceae. **Opium poppy.**

250640. Col. No. K601. Lahore bazaar.

250641. Col. No. K602. Lahore bazaar.

250642. RUMEX sp. Polygonaceae.

Col. No. K501. Field north of Kotli.

250643. RUMEX sp.

Col. No. K502. Field north of Kotli.

250644. CYMBOPOGON SCHOENANTHUS (L.) Spreng. Poaceae. **Camel-hay.**

Col. No. K554. Four miles south of Pabbi.

250645. ARISTIDA COERULESCENS Desf. Poaceae.

Col. No. K557. Six miles south of Pabbi. Plant to 16 inches high.

250646. AVENA BYZANTINA Koch. Poaceae.

Col. No. K606. Lahore bazaar.

250647. BRACHYPODIUM sp. Poaceae.

Col. No. K558. Six miles south of Pabbi. Plant to 10 inches high.

250648. BROMUS WILLDENOWII Kunth. Poaceae. **Rescuegrass.**

Col. No. K510. Road to Pindi Point, Murree. Elevation 7,000 feet.

250649 and 250650. BROMUS JAPONICUS Thunb.

250649. Col. No. K423. Near Pindi Point, Murree. Elevation 7,000 feet.

250650. Col. No. K509. Near Pindi Point, Murree. Elevation 7,000 feet.

250651. KOELERIA CRISTATA (L.) Pers. Poaceae.

Col. No. K507. Pindi Point, Murree. Elevation 7,000 feet.

250652 and 250653. HORDEUM VULGARE L. Poaceae. **Common barley.**

250652. Col. No. K442. Nine miles from Rawalpindi.

250653. Col. No. K548. Mardan bazaar.

250654. PANICUM sp. Poaceae.

Col. No. K590. Khyber Pass, Afghanistan border.

250655. PAPPOPHORUM sp. Poaceae.

Col. No. K556. Six miles south of Pabbi.

250656. PENNISETUM SPICATUM (L.) Willd. Poaceae. **Pearl millet.**

Col. No. K551. Mardan bazaar.

250657. POA PRATENSIS L. Poaceae. **Kentucky bluegrass.**

Col. No. K511. Road to Pindi Point, Murree.

250658. THEMEDA ANATHERA (Nees) Hack. Poaceae. **Redgrass.**

Col. No. K497. Field north of Kotli.

250659. TRIFOLIUM ALEXANDRINUM L. Fabaceae. **Berseem clover.**

Col. No. K608. Lahore bazaar.

250660 to 250665.

From the Union of Soviet Socialist Republics. Presented by the Agricultural Attache, United States Embassy, Moscow. Received September 2, 1958.

250660 to 250662. ALLIUM CEPA L. Liliaceae. **Onion.**

250660. No. 1. (Seeds.)

250661. No. 2. (Seeds.)

250662. No. 3. (Seeds.)

250663. ALLIUM SATIVUM L. **Garlic.**

(Bulbs.)

250664. AVENA SATIVA L. Poaceae. **Common oats.**

(Seeds.)

250665. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

(Seeds.) From an exhibition of wheats of outstanding yield and vigor, at the Agricultural Institute, Zemledeliye, 15 km. from Moscow.

250666 to 250691.

From Brazil. Seeds presented by the Instituto Agronomico, Campinas, Sao Paulo. Received Sept. 2, 1958.

250666. CITRUS LIMON (L.) Burm. f. Rutaceae. **Lemon.**

No. 217. 'Lima de Umbigo'.

250667. CITRUS AURANTIUM L. **Sour orange.**

No. 277. 'Laranja Azeda Sem Espinho'.

250668 and 250669. CITRUS TAIWANICA Tanaka & Shimada.

250668. No. 278. Fruit large.

250669. No. 292. Fruit small.

250670 to 250676. CITRUS SINENSIS (L.) Osbeck. **Sweet orange.**

250670. No. 670. No. 8. 'Laranja Branca'.

250671. No. 19. 'Laranja Caipira R.'.

250672. No. 91. 'Laranja Caipira Doce'.

250673. No. 62. 'Laranja Ibicaba'.

250674. No. 71. 'Laranja Paulista'.

250675. No. 11. 'Laranja Pele de Moca'.

250676. No. 16. 'Laranja Caipira Lara Campos'.

250677. CITRUS AURANTIUM L. **Sour orange.**

No. 20. 'Laranja Lanceta Amarga'.

250678. CITRUS LIMON (L.) Burm. f. **Lemon.**

No. 240. 'Limao Viradouro'.

250679 and 250680. CITRUS GRANDIS (L.) Osbeck. **Pummelo.**

250679. No. 165. 'Toranja Periforme'.

250680. No. 127. 'Toranja Zamboa'.

250681 to 250686. CITRUS LIMON (L.) Burm. f. **Lemon.**

250681. No. 161. 'Limao Amber'.

250682. No. 201. 'Lima Deodoro'.

250683. No. 210. 'Limao Doce'.

250684. No. 212. 'Limao Gigante'.

250685. No. 155. 'Lisboa tetraploide'.

250686. No. 214. 'Limao Rugoso Nacional'.

250687. CITRUS sp.

No. 217. 'Limao Selvagem'.

250688 to 250690. CITRUS MEDICA L. **Citron.**

250688. No. 164. 'Cidra Comprida'.

250689. No. 131. 'Cidra Doce'.

250690. No. 196. 'Cidra Redonda'.

250691. CITRUS (hybrid).

No. 202. (*C. aurantifolia* × *C. reticulata*) 'Limao Periforme',

250692 to 250695. SACCHARUM (hybrids). Poaceae. **Sugarcane.**

From Argentina. Cuttings presented by the Ministerio de Agricultura y Ganaderia, Buenos Aires. Received Sept. 2, 1958.

250692. C.B. 36–14.

250693. C.B. 38–5.

250694. C.B. 40–11.

250695. Tuc. 319 F.

250696 to 250800.

From Iran and Afghanistan. Seed collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 3, 1958.

250696 to 250759. From Iran. Collected July 14–24, 1958.

250696. AEGILOPS TRIUNCIALIS L. Poaceae. **Barb goatgrass.**

Col. No. K1512. Forty-nine km. northwest of Tabriz.

250697. BROMUS JAPONICUS Thunb. Poaceae.

Col. No. K1521. Fifty-two km. west of Tabriz.

250698 to 250703. CARTHAMUS LANATUS L. Asteraceae.

250698. Col. No. K1579. Six km. northwest of Ardebil.

250699. Col. No. 1586. Forty-eight km. northwest of Ardebil.

250700. Col. No. K1593. One hundred and twenty-eight km. northwest of Ardebil, Moghan road.

250701. Col. No. K1635. Sixty-one km. west of Lari.

250702. Col. No. K1645. One km. north of Golmacon, northwest of Meshed.

250703. Col. No. K1646. One km. north of Golmacon, northwest of Meshed. Flowers light purple.

250704 to 250707. CARTHAMUS OXYACANTHA Bieb. Asteraceae.

250704. Col. No. K1610. One hundred and fifty-seven km. south of Moghan.

250705. Col. No. K1641. One hundred and ninety-one km. from Lari, Tabriz road.

250706. Col. No. K1643. Eleven km. northwest of Meshed.

250707. Col. No. K1657. One km. north of Golmacon, northwest of Meshed.

250708 to 250724. CARTHAMUS TINCTORIUS L. **Safflower.**

250708 to 250712. Isfahan bazaar.

250708. Col. No. K1481.

250709. Col. No. K1482.

250710. Col. No. K1483.

250711. Col. No. K1484.

250712. Col. No. K1485.

250713 and 250714. Flaverjan bazaar, 20 km. west of Isfahan.

250713. Col. No. K1492.

250714. Col. No. K1493.

250715. Col. No. K1496. 'Kousheh'. Three km. west of Flaverjan. Flowers orange and red.

250716 and 250717. Isfahan bazaar.

250716. Col. No. K1504.

250717. Col. No. K1505.

250718. Col. No. K1540. 'Taghala Golu'. Tabriz bazaar.

250719. Col. No. K1578. Ardebil bazaar.

250720. Col. No. K1643. 'Kajireh'. Fifteen km. northwest of Meshed Flowers red and orange.

250721. Col. No. K1644. 'Kajireh'. Suugerd, northwest of Meshed Flowers red and orange.

250722 to 250724. Meshed bazaar.

250722. Col. No. K1658.

250723. Col. No. K1672.

250724. Col. No. K1673.

250725. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

Col. No. K1514. Forty-nine km. northwest of Tabriz.

250726. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

Col. No. K1671. 'Aftabgardan'. Meshed bazaar.

250727 to 250729. HORDEUM VULGARE L. Poaceae. **Common barley.**

250727. Col. No. K1509. Thirty-nine km. northwest of Tabriz.

250728. Col. No. K1551. Ninety-two km. east of Tabriz on road Ardebil.

250729. Col. No. K1571. Ardebil bazaar.

250730 to 250738. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

250730. Col. No. K1488. 'Bazrak'. Flaverjan bazaar, 20 km. west of Isfahan.

250731. Col. No. K1495. 'Bazrak'. Two km. west of Flaverjan.

250732 to 250734. Tabriz bazaar.

250732. Col. No. K1533. 'Bazrak'.

250733. Col. No. K1534. 'Bazrak'.

250734. Col. No. K1535. 'Bazrak'.

250735. Col. No. K1577. Ardebil bazaar.

250736. Col. No. K1609. One hundred and two km. south of Moghan.

250737 and 250738. Meshed bazaar.

250737. Col. No. K1661.

250738. Col. No. K1670.

250739. MEDICAGO LUPULINA L. Fabaceae. **Black medic.**

Col. No. K1564. Two hundred and six km. east of Tabriz, Ardebil road.

250740. MEDICAGO SATIVA L. **Alfalfa.**

Col. No. K1574. 'Sarab'. Ardebil.

250741. PHALARIS CANARIENSIS L. Poaceae. **Canarygrass.**

Col. No. K1660. Meshed bazaar.

250742 and 250743. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

250742. Col. No. K1490. Flavergan bazaar, 20 km. west of Isfahan.

250743. Col. No. K1659. Meshed bazaar.

250744 to 250747. SECALE CEREALE L. Poaceae. **Rye.**

250744. Col. No. K1526. Ninety-four km. northeast of Tabriz.

250745. Col. No. K1548. Fifty-one km. east of Tabriz.

250746. Col. No. K1563. Two hundred and six km. east of Tabriz, Ardebil road.

250747. Col. No. K1634. Five km. south of Lari.

250748 and 250749. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

Tabriz bazaar.

250748. Col. No. K1530.

250749. Col. No. K1532.

250750. SORGHUM BICOLOR (L.) Moench Poaceae.

Col. No. K1502. Isfahan bazaar.

250751. STIPA sp. Poaceae.

Col. No. K1518. Forty-nine km. northwest of Tabriz.

250752. STIPA sp.

Col. No. K1580. Thirty-nine km. northwest of Ardebil.

250753. TRIFOLIUM PATENS Schreb. Fabaceae.

Col. No. K1623. Twenty-five km. south of Lari, north slope of Mount Savalan.

250754 to 250756. TRITCUM AESTIVUM L. Poaceae. **Common wheat.**

250754. Col. No. K1553. One hundred and six km. east of Tabriz, Ardebil road.

250755 and 250756. Meshed bazaar.

250755. Col. No. K1674.

250756. Col. No. K1675.

250757. TRICTICUM COMPACTUM Host Poaceae. **Club wheat.**

Col. No. K1612. Five km. south of Lari, north of Mount Savalan.

250758. LATHYRUS CICERA L. Fabaceae. **Flatpod peavine.**

Col. No. K1595. One hundred and thirty-five km. northwest of Ardebil, Moghan road.

250759. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. K1575. Ardebil bazaar.

250760 to 250800. From Afghanistan. Collected May 25–27, 1958.

250760. BROMUS LANCEOLATUS Roth Poaceae.

Col. No. K752. Near ICA Staff House, Lashkar Gah.

250761. BROMUS MOLLIS L. **Soft chessgrass.**

Col. No. K753. Desert west of Khagiani.

250762 to 250764. CARTHAMUS LANATUS L. Asteraceae.

250762. Col. No. K707. South of ICA Staff House, Kandahar.

250763. Col. No. K763. Ten miles west of Kandahar.

250764. Col. No. K765. One and one-half miles south of Kandahar.

250765 to 250773. CARTHAMUS OXYACANTHA Bieb.

250765. Col. No. K704. Canal near ICA Staff House, Kandahar.

250766. Col. No. K705. Canal near ICA Staff House, Kandahar.

Flowers light yellow.

250767. Col. No. K706. South of ICA Staff House, Kandahar.

250768. Col. No. K718. Changir, 10 miles north of Lashkar Gah.

250769. Col. No. K721. One mile west of Girishk.

250770. Col. No. K746. Two miles southwest of Lashkar Gah.

250771. Col. No. K748. Two miles southwest of Marja.

250772. Col. No. K761. Eighteen miles west of Kandahar.

250773. Col. No. K762. Ten miles west of Kandahar.

250774. CARATHMUS TINCTORIUS L. **Safflower.**

Col. No. K751. Near ICA Staff House, Lashkar Gah.

250775 to 250778. HORDEUM VULGARE L. Poaceae. **Common barley.**

250775. Col. No. K710. South of ICA Staff House, Kandahar.

250776. Col. No. K723. Girishk bazaar.

250777. Col. No. K758. Twenty miles west of Kandahar.

250778. Col. No. K769. Kandahar bazaar.

250779 to 250781. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

Girishk bazaar.

250779. Col. No. K729.

250780. Col. No. K730.

250781. Col. No. K731.

250782. MEDICAGO sp.

Col. No. K714. Near ICA Staff House, Kandahar.

250783 and 250784. MELILOTUS INDICA (L.) All. Febaceae. **Annual yellow sweetclover.**

250783. Col. No. K712. South of ICA Staff House, Kandahar.

250784. Col. No. K715. Near ICA Staff House, Kandahar.

250785 to 250788. PANICUM MILIACEUM L. Poaceae. **Proso millet.**

250785 and 250786. Girishk bazaar.

250785. Col. No. K732.

250786. Col. No. K733.

250787 and 250788. Kandahar bazaar.

250787. Col. No. K775.

250788. Col. No. K776.

250789. TRIFOLIUM FRAGIFERUM L. Fabaceae. **Strawberry clover.**

Col. No. K711. West of ICA Staff House, Kandahar.

250790. TRIFOLIUM REPENS L. **Whiteclover.**

Col. No. K716. Near ICA Staff House, Kandahar.

250791 to 250795. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

250791 to 250793. Girishk bazaar.

250791. Col. No. K726.

250792. Col. No. K727.

250793. Col. No. K728.

250794. Col. No. K747. Two miles southwest of Lashkar Gah.

250795. Col. No. K754. Khagiani.

250796. VICIA VILLOSA Roth Fabaceae. **Hairy vetch.**

Col. No. K722. One mile west of Girishk.

250797. VICIA sp.

Col. No. K757. Twenty miles west of Kandahar.

250798 to 250800. ZEA MAYS L. Poaceae. **Corn.**

250798 and 250799. Girishk bazaar.

250798. Col. No. K724.

250799. Col. No. K725.

250800. Col. No. K777. Kandahar bazaar.

250801 and 250802.

From Nepal. Plants presented by the United States Operations Mission, Katmandu. Received Sept. 4, 1958.

250801. BEGONIA sp. Begoniaceae.

Leaves variegated.

250802. BEGONIA sp.

Leaves green.

250803 to 250807. LOLIUM RIGIDUM Gaud. Poaceae. **Wimmera ryegrass.**

From Australia. Seeds presented by F. H. Brunning Propriety, Limited, Melbourne, Victoria. Received Sept. 4, 1958.

250803. No. 1299. Apsley, Victoria.

250804. No. 1410. Shepparaton, Victoria.

250805. No. 1411. Shepparaton, Victoria.

250806. No. 1412. Shepparaton, Victoria.

250807. No. 1443. Finley, N.S.W.

250808. SORGHUM BICOLOR (L.) Moench Poaceae.

From India. Seed presented by the Rockefeller Foundation, New Delhi. Received Sept. 4, 1958.

I.S. 2182. Tetraploid. From Coimbatore.

250809. HUMULUS LUPULUS L. Moraceae. **Common hop.**

From Yugoslavia. Roots collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept 5, 1958.

Col. No. 17525. East of Ljubljana, Slovenia. One of the best Yugoslav varieties.

250810. PYRUS COMMUNIS L. Malaceae. **Common pear.**

From Austria. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 5, 1958.

Col. No. 17523. Near Wells.

250811 to 250951.

From Iran. Seed collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 4, 1958.

Collected July 12 to 30, 1958.

250811 and 250812. CARTHAMUS LANATUS L. Asteraceae.

250811. Col. No. K1694. One km. west of Golistan.

250812. Col. No. K1700. Fifteen km. south of Tehran.

250813 to 250818. CARTHAMUS OXYACANTHA Bieb.

250813. Col. No. K1440. Twenty-five km. southeast of Isfahan, near Mishan.

250814. Col. No. K1663. Fifteen km. southeast of Meshed.

250815. Col. No. K1665. Thirty-six km. southeast of Meshed, near Bagharabat.

250816. Col. No. K1683. Six km. west of Meshed.

250817. Col. No. K1698. Six km. east of Meshed.

250818. Col. No. K1699. Fifteen km. west of Tehran.

250819 to 250842. CARTHAMUS TINCTORIUS L. **Safflower.**

250819 to 250821. Experimental Farm, Isfahan.

250819. Col. No. K1339.

250820. Col. No. K1340.

250821. Col. No. K1341.

250822 and 250823. Isfahan bazaar.

250822. Col. No. K1369.

250823. Col. No. K1370.

250824. Col No. K1334. Ten km. southeast of Isfahan, near the Zayandehrud River. Plant to 30 inches high; flowers red, yellow and orange.

250825. Col. No. K1436. Twelve km. southeast of Isfahan, near the Zayandehrud River. Plants to 30 inches high; flowers red, orange and yellow.

250826. Col. No. K1437. Twenty-five km. southeast of Isfahan near Mishan.

250827. Col. No. K1438. Twenty-five km. southeast of Isfahan, near Mishan. Flowers red, orange and yellow.

250828. Col. No. K1441. Twenty-five km. southeast of Isfahan, near Mishan. Flowers red and orange.

250829. Col. No. K1479. Isfahan bazaar.

250830. Col. No. K1480. Isfahan bazaar.

250831. Col. No. K1655. East of Meshed. Plants to 36 inches high; flowers red or orange.

250832. Col. No. K1656. East of Meshed.

250833. Col. No. K1662. Eight km. southeast of Meshed. Flowers red.

250834. Col. No. K1664. Thirty-six km. southeast of Meshed near Bagharabat. Plants to 20 inches high; flowers orange to red.

250835. Col. No. K1666. 'Golzardo'. Seventy-two km. southeast of Meshed, village of Farhadgerd. Plants to 30 inches high; flowers red.

250836. Col. No. K1684. Village of Vacilobad, 12 km. west of Meshed. Plants to 30 inches high; flowers red and orange.

250837. Col. No. K1693. West of Golistan, 18 km. from Meshed. Plants to 30 inches high; flowers red and orange.

250838 and 250839. Experiment Station, 6 km. east of Meshed.

250838. Col. No. K1696. Plants to 30 inches high; flowers red and orange.

250839. Col. No. K1697. Plants to 30 inches high; flowers red and orange.

250840 to 250842. Karaj Station, west of Tehran.

250840. Col. No. K1701. Variety No. 2811.

250841. Col. No. K1702. Variety No. 2819.

250842. Col. No. K1703. Variety No. 2824.

250843. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

Col. No. K1695. Two km. west of Torgaby and 21 km. west of Meshed. Plant to 30 inches high.

250844 to 250847. VIGNA sp. Fabaceae.

Experiment Farm, Agricultural Department, Isfahan.

250844. Col. No. K1357.

250845. Col. No. K1358.

250846. Col. No. K1359.

250847. Col. No. K1360.

250848 and 250849. GOSSYPIUM (hybrids). Malvaceae. **Cotton.**

250848. Col. No. K1406. 'Panbadaneh'. Isfahan bazaar.

250849. Col. No. K1458. 'Panbadaneh'. Isfahan bazaar.

250850 to 250856. HELIANTHUS ANNUS L. Asteraceae. **Common sunflower.**

250850 to 250853. 'Aftabgarden'. Experiment Farm, Agricultural Department, Isfahan.

250850. Col. No. K1342. Colored variety. Plants to six feet high.

250851. Col. No. K1343. White.

250852. Col. No. K1344.

250853. Col. No. K1345.

250854 to 250856. Isfahan bazaar.

250854. Col. No. K1463.

250855. Col. No. K1464.

250856. Col. No. K1465.

250857 to 250861. HORDEUM VULGARE L. Poaceae. **Common barley.**

250857 to 250860. Isfahan bazaar.

250857. Col. No. K1386.

250858. Col. No. K1387.

250859. Col. No. K1388.

250860. Col. No. K1389.

250861. Col. No. K1679. Meshed bazaar.

250862 to 250872. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

250862 to 250865. Experimental Farm, Agriculture Department, Isfahan.

250862. Col. No. K1350.

250863. Col. No. K1351.

250864. Col. No. K1352.

250865. Col. No. K1353.

250866 to 250872. Isfahan bazaar.

250866. Col. No. K1366.

250867. Col. No. K1367.

250868. Col. No. K1368.

250869. Col. No. K1373.

250870. Col. No. K1476.

250871. Col. No. K1477.

250872. Col. No. K1478.

250873. MELILOTUS ELEGANS Salzm. Fabaceae. **Sweetclover.**

Col. No. K1688. Thirteen km. west of Meshed. Plants to 20 inches high; flowers yellow.

250874 to 250884. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

250874 to 250877. Experiment Farm, Agriculture Department, Isfahan.

250874. Col. No. K1346.

250875. Col. No. K1347.

250876. Col. No. K1348.

250877. Col. No. K1349.

250878 to 250884. Isfahan bazaar.

250878. Col. No. K1374.

250879. Col. No. K1375.

250880. Col. No. K1471.

250881. Col. No. K1472.

250882. Col. No. K1473.

250883. Col. No. K1474.

250884. Col. No. K1475.

250885. SECALE CEREALE L. Poaceae. **Rye.**

Col. No. K1692. Sixteen km. west of Meshed. Plant to 36 inches high.

250886 to 250895. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

250886 to 250888. Experiment Farm, Agriculture Department, Isfahan.

250886. Col. No. K1354.

250887. Col. No. K1355.

250888. Col. No. K1356.

250889 to 250895. Isfahan bazaar.

250889. Col. No. K1371.

250890. Col. No. K1372.

250891. Col. No. K1466.

250892. Col. No. K1467.

250893. Col. No. K1468.

250894. Col. No. K1469.

250895. Col. No. K1470.

250896 to 250898. SORGHUM BICOLOR (L.) Moench Poaceae.

Isfahan bazaar.

250896. Col. No. K1384. 'Alfzoret'. Grade No. 1.

250897. Col. No. K1385. Grade No. 2.

250898. Col. No. K1455.

250899. TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

Col. No. K1689. Thirteen km. west of Meshed. Flowers deep pink.

250900 to 250905. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

250900 and 250901. Isfahan bazaar.

250900. Col. No. K1390.

250901. Col. No. K1391.

250902 to 250904. Meshed bazaar.

250902. Col. No. K1676.

250903. Col. No. K1677.

250904. Col. No. K1678.

250905. Col. No. K1691. Sixteen km. west of Meshed. Plant to 24 inches high.

250906. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. K1410. 'Lubia'. Isfahan bazaar.

250907. ZEA MAYS L. Poaceae. **Corn.**

Col. No. K1452. 'Zorat'. Isfahan bazaar.

250908. AEGILOPS TRIUNCIALIS L. Poaceae. **Barb goatgrass.**

Col. No. K1596. One hundred thirty-five km. northwest of Ardebil, Moghan road. Plant to 10 inches high.

250909 and 250910. AGROPYRON CRISTATUM (L.) Gaertn. Poaceae. **Crested wheatgrass.**

250909. Col. No. K1557. One hundred and eighty-four km. east of Tabriz, Ardebil road. Elevation 4,500 feet.

250910. Col. No. K1592. One hundred and ten km. northwest of Ardebil, Moghan road.

250911 and 250912. CARTHAMUS LANATUS L. Asteraceae.

250911. Col. No. K1566. Two hundred and six km. east of Tabriz, Ardebil road, via Sarab.

250912. Col. No. K1600. One hundred and fifty-one km. northwest of Ardebil, Moghan road.

250913 to 250919. CARTHAMUS OXYCANTHA Bieb.

250913. Col. No. K1486. Nine km. west of Isfahan.

250914. Col. No. K1498. Six km. north of Flaverjan.

250915. Col. No. K1506. Fifteen km. northwest of Tabriz.

250916. Col. No. K1508. Thirty-nine km. northwest of Tabriz.

250917. Col. No. K1549. Seventy-three km. east of Tabriz, Ardebil road.

250918. Col. No. K1550. Ninety-two km. east of Tabriz, Ardebil road.

250919. Col. No. K1587. Forty-three km. northwest of Ardebil. Plants to 12 inches high.

250920 to 250926. CARTHAMUS TINCTORIUS L. **Safflower.**

250920. Col. No. K1497. 'Kousheh'. Six km. north of Flaverjan. Plants to 30 inches high; flowers orange and red.

250921. Col. No. K1503. 'Kousheh'. Isfahan bazaar.

250922. Col. No. K1528. Zornouz, 100 km. northwest of Tabriz.

250923. Col. No. K1529. Zornouz, 100 km. northwest of Tabriz.

250924. Col. No. K1539. 'Taghala-Golu'. Tabriz bazaar.

250925. Col. No. K1541. 'Taghala 'Golu'. Tabriz bazaar.

250926. Col. No. K1542. 'Taghala-Golu'. Tabriz bazaar.

250927 to 250929. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

250927. Col. No. K1520. Fifty-two km. west of Tabriz. Plants to 20 inches high.

250928. Col. No. K1607. One hundred and two km. south of Moghan. Plant to two feet high.

250929. Col. No. K1554. One hundred and sixty-seven km. east of Tabriz, Ardebil road, via Sarab.

250930. HORDEUM BULBOSUM L. Poaceae. **Bulbous barley.**

Col. No. K1608. One hundred and two km. south of Moghan.

250931. HORDEUM VULGARE L. **Common barley.**

Col. No. K1613. Nine km. south of Lari.

250932 to 250934. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

250932. Col. No. K1591. One hundred and ten km. from Ardebil, Moghan road. Plant to 10 inches high.

250933. Col. No. K1599. One hundred and forty km. northwest of Ardebil, Moghan road. Plants to 12 inches high.

250934. Col. No. K1638. Ahar bazaar, northeast of Tabriz.

250935 and 250936. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

250935. Col. No. K1545. Tabriz bazaar.

250936. Col. No. K1573. Ardebil bazaar.

250937. MEDICAGO LUPULINA L. Fabaceae.

Col. No. K1558. One hundred eighty-four km. east of Tabriz, Ardebil road, via Sarab.

250938 to 250942. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

250938. Col. No. K1536. 'Karchak'. Tabriz bazaar.

250939. Col. No. K1537. 'Karchak'. Tabriz bazaar.

250940. Col. No. K1538. 'Karchak'. Tabriz bazaar.

250941. Col. No. K1639. Ahar bazaar.

250942. Col. No. K1648. Golmacon bazaar.

250943. SECALE sp. Poaceae.

Col. No. K1588. Sixty-six km. northwest of Ardebil. Plant to 20 inches high.

250944 to 250946. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

250944. Col. No. K1531. Tabriz bazaar.

250945. Col. No. K1603. Moghan bazaar.

250946. Col. No. K1640. Ahar bazaar.

250947. STIPA sp. Poaceae.

Col. No. K1556. One hundred and sixty-one km. east of Tabriz, Ardebil road, via Sarab.

250948. TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

Col. No. K1525. Fifty-two km. west of Tabriz.

250949 and 250950. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

250949. Col. No. K1547. Fifty-seven km. east of Tabriz, Ardebil road, via Sarab.

250950. Col. No. K1567. Two hundred and six km. east of Tabriz, Ardebil road, via Sarab.

250951. TRITICUM DURUM Desf. **Durum wheat.**

Col. No. K1649. North boundary of Golmacon.

250952 and 250953.

From Thailand. Seeds presented by the United States Operations Mission, Bangkok. Received Sept. 8, 1958.

250952. STIZOLOBIUM ATERRIMUM Piper & Tracy Fabaceae. **Velvetbean.**

250953. STIZOLOBIUM sp.

250954 to 251009.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 8, 1958.

250954. HYPARRHENIA HIRTA (L.) Stapf Poaceae

Col. No. 17337. Maximilian's Island, Dubrovnick, Dalmatia. Large bunchgrass.

250955. AVENA SATIVA L. Poaceae. **Common oats.**

Col. No. 17153. Near Srbobran, Serbia.

250956. CYNOSURUS CRISTATUS L. Poaceae. **Crested dogtail.**

Col. No. 17215. Mavrosko Lake, Macedonia. Elevation 4,200 feet. Sparse, tufted grass.

250957 to 250959. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

250957. Col. No. 17218. Mavrosko Lake, Macedonia.

250958. Col. No. 17234. Dry, rocky sandstone slope, Lake Ohrid, Macedonia. Elevation 2,500 feet. Xerophyte; leaves scanty.

250959. Col. No. 17224. Mavrosko Lake, Macedonia. Elevation 4,200 feet. Thickly tufted perennial.

250960. DACTYLIS HISPANICA Roth.

Col. No. 17352. Arid limestone slope, south of Split, Dalmatia. Elevation 500 feet. Sparse, narrow-leaved perennial.

250961. DESCHAMPSIA sp. Poaceae.

Col. No. 17336. Nichsich, Montenegro. Elevation 2,100 feet. Narrow-leaved and fescuelike perennial, said to be palatable to livestock.

250962. DESCHAMPSIA sp.

Col. No. 17360. Kupres Valley, Bosnia. Elevation 3,800 feet. Long culm, sod-forming perennial; well liked by livestock.

250963. FESTUCA ARUNDINACEA Schreb. Poaceae. **Tall fescue.**

Col. No. 17174. Skopje, Macedonia. Elevation 1,000 feet. Vigorous perennial; leaves soft, large, palatable.

250964. FESTUCA ELATIOR L. **Meadow fescue.**

Col. No. 17201. Sloping meadow, Mavrosko Lake, Macedonia. Elevation 4,200 feet. Thriving perennial; palatable.

250965. FESTUCA sp.

Col. No. 17207. Meadow slope, Mavrosko Lake, Macedonia. Densely tufted perennial, seeding freely.

250966. FESTUCA RUBRA L. **Red fescue.**

Col. No. 17294. Fifty km. east of Titograd, Montenegro. Elevation 4,200 feet. Fine-leaved perennial.

250967. FESTUCA OVINA L. **Sheep fescue.**

Col. No. 17225. West of Mavrosko Lake, Macedonia. Elevation 3,500 feet. Shade-tolerant, fine-leaved perennial; leaves numerous, short.

250968. HORDEUM VULGARE L. Poaceae. **Common barley.**

Col. No. 17241. Market, Lake Ohrid, Macedonia.

250969. LOLIUM PERENNE L. Poaceae. **Perennial ryegrass.**

Col. No. 17333. Nichsich, Montenegro. Elevation 2,200 feet. Fine-leaved grass for lawns.

250970 and 250971. LOTUS CORNICULATUS var. CILIATUS (Tenore) C. Koch. Fabaceae. **Trefoil.**

250970. Col. No. 17212. Mavrosko Lake, Macedonia. Elevation 4,200 feet.

250971. Col. No. 17264. North slope of Shar Plannina. Elevation 4,200 feet. Seeding very heavily.

250972. LOTUS CORNICULATUS L. Fabaceae. **Birdsfoot trefoil.**

Col. No. 17385. Twenty km. east of Sarajevo, Bosnia. Elevation 3,000 feet. Plant fine-leaved, short, weak-stemmed.

250973 and 250974. MEDICAGO LUPULINA L. Fabaceae. **Black medic.**

250973. Col. No. 17205. Meadow, Mavrosko Lake, Macedonia. Elevation 4,200 feet. Spreading procumbent spring annual.

250974. Col. No. 17243. Above Resan, Macedonia. Elevation 4,000 feet. Decumbent spring annual.

250975 and 250976. MEDICAGO SATIVA L. **Alfalfa.**

250975. Col. No. 17228. Debar, Macedonia. Elevation 2,000 feet. Plants erect, rather stemmy; seeding heavily.

250976. Col. No. 17334. Nicksich State Farm, Montenegro. Plants tall; cultivated by irrigation.

250977. ONOBRYCHIS ARENARIA DC. Fabaceae.

Col. No. 17230. Rocky slope, Lake Ohrid, Macedonia. Elevation 3,000 feet. Xerophyte.

250978. ONOBRYCHIS CAPUT-GALLI (L.) Lam.

Col. No. 17179. Ten km. north of Veles, Macedonia. Elevation 1,000 feet. Winter-spring annual, reported palatable.

250979. PANICUM MILIACEUM L. Poaceae. **Proso millet.**

(No field number.)

250980. PHLEUM PRATENSE L. Poaceae. **Timothy.**

Col. No. 17223. Mavrosko Lake, Macedonia. Elevation 4,200 feet. Vigorous xerophytic perennial.

250981. POA PRATENSIS L. Poaceae. **Kentucky bluegrass.**

Col. No. 17202. Meadow slope, Mavrosko Lake, Macedonia. Elevation 4,200 feet. Short-leaved perennial.

250982. POA TRIVIALIS L. **Roughstalk bluegrass.**

Col. No. 17216. Mavrosko Lake, Macedonia. Elevation 4,200 feet.

250983. SECALE CEREALE L. Poaceae. **Rye.**

Col. No. 17235. Market by Lake Ohrid, Macedonia. Elevation 3,000 feet.

250984. STIPA sp. Poaceae.

Col. No. 17169. Twelve km. northeast of Skioje, Macedonia. Xerophytic perennial; leaves soft, hairy, palatable, forming good pasture.

250985 and 250986. TRIFOLIUM CAMPESTRE Schreb. Fabaceae. **Large hop clover.**

250985. Col. No. 17203. Mavrosko Lake, Macedonia. Elevation 4,200 feet. Scattered spring annual.

250986. Col. No. 17253. Lake Prespa, Macedonia. Elevation 3,500 feet. Flowers yellow.

250987 and 250988. TRIFOLIUM FRAGIFERUM L. Fabaceae. **Strawberry clover.**

250987. Col. No. 17249. Lake Ohrid, Macedonia.

250988. Col. No. 17255. Lake Prespa, Macedonia. Elevation 3,500 feet.

250989. TRIFOLIUM MEDIUM Huds. **Zig-zag clover.**

Col. No. 17259. Northeast end of Shar Plannina. Elevation 4,000 feet. Short-stemmed hairy clover; leaves large.

250990 to 250995. TRIFOLIUM PRATENSE L. **Red clover.**

250990. Col. No. 17198. Near Tetovo, Macedonia. Elevation 2,000 feet. Uniform commercial variety; glabrous, to two feet high.

250991. Col. No. 17199. Mavrosko Lake, Macedonia. Elevation 3,000 feet.

250992. Col. No. 17221. Mavrosko Lake, Macedonia. Elevation 4,200 feet.

250993. Col. No. 17246. Resen, Macedonia. Elevation 4,000 feet.

250994. Col. No. 17260. Northeast end of Shar Plannina. Elevation 4,000 feet. Variable wild form.

250995. Col. No. 17281. Chakor Mountain, Montenegro. Elevation 6,400 feet. Low scattered plants dominated by grasses.

250996 to 250998. TRIFOLIUM REPENS L. **White clover.**

250996. Col. No. 17208. Mayrosko Lake, Macedonia. Elevation 4,200 feet.

250997. Col. No. 17211. Dry slope, Mavrosko Lake, Macedonia. Elevation 4,200 feet. A lawnlike drought-resistant cover.

250998. Col. No. 17214. Movrosko Lake, Macedonia. Elevation 4,200 feet. Stems reddish; peduncles and petioles long.

250999 and 251000. TRIFOLIUM RESUPINATUM L. **Persian clover.**

250999. Col. No. 17200. Below Mavrosko Lake, Macedonia. Elevation 3,000 feet. Tall, succulent herb; good seeder.

251000. Col. No. 17217. Mavrosko Lake, Macedonia. Elevation 4,200 feet. Annual; stems succulent, to three feet long; flowers bright red; seeding heavily.

251001. TRIFOLIUM GLABOSUM L.

Col. No. 17250. Lake Prespa, Macedonia. Elevation 3,500 feet. In swampy meadow. Annual; stems long; flowers white to pale lavender.

251002. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

Col. No. 17240. Market, Lake Ohrid, Macedonia.

251003. VICIA SATIVA L. Fabaceae. **Common vetch.**

Col. No. 17190. Cooperative State Seed Farm, Ovche Polje, Macedonia. Planted February and March, harvested in June. Now in commercial production.

251004. VICIA VILLOSA Roth **Hairy vetch.**

Col. No. 17233. Lake Ohrid, Macedonia. Elevation 2,900 feet. Glabrous twining annual; flowers purple.

251005. VICIA sp.

Col. No. 17209. Mavrosko Lake, Macedonia. Elevation 4,200 feet. Fine-stemmed delicate annual.

251006. VICIA sp.

Col. No. 17213. Mavrosko Lake, Macedonia. Elevation 4,200 feet.

251007. VICIA sp.

Col. No. 17219. Mavrosko Lake, Macedonia. Elevation 4,200 feet.

251008. VICIA sp.

Col. No. 17332. South of Shavnick, Montenegro. Elevation 3,900 feet. Erect, bushy, glaucous, fine-leaved annual; seeds ripening uniformly.

251009. ZEA MAYS L. Poaceae. **Corn.**

Col. No. 17239. Market, Lake Ohrid, Macedonia.

251010. ALOCASIA MICHOLITZIANA Sander Araceae.

From France. Plants presented by Marcel Lecoufle, Boissy-Saint-Leger, Received Sept. 8, 1958.

251011 to 251013. CAMELLIA SINENSIS (L.) Kuntze Theaceae. **Tea.**

From Ceylon. Seeds presented by the Tea Research Institute, Talawakelle, Received Sept. 9, 1958.

251011. St. Coombs Estate. Elevation 4,500 feet.

251012. Kanapediwatte. Elevation 2,700 feet.

251013. Illuktenne. Elevation 700 feet.

251014 to 251019.

From the Union of Soviet Socialist Republics. Seeds presented by the All-Union Institute of Plant Industry, Leningrad. Received Sept. 8, 1958.

251014. TRITICUM DURUM Desf. Poaceae. **Durum wheat.**

Formerly from China, Tibet, and Chandu.

251015. TRITICUM sp.

251016 to 251018. TRITICUM TIMOPHEEVII (Zhukov.) Zhukovsky **Wheat.**

251016. Natural hexaploid (2n=42) URSS, Georgia.

251017. Octoploid—(2n=56).

251018. Octoploid—(2n—56). Reproduced in Tashkent.

251019. TRITICUM sp.

Natural allopolyploid.

251020 to 251040.

From Afghanistan and Iran. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 9, 1958. From Iran unless otherwise noted.

251020 to 251021. ALLIUM CEPA L. Liliaceae. **Onion.**

251020. Col. No. K744. Girishk bazaar, Afghanistan.

251021. Col. No. K772. Afghanistan.

251022. BRASSICA RAPA L. Brassicaceae. **Turnip.**

Col. No. K745. Girishk bazaar, Afghanistan.

251023. CARTHAMUS OXYACANTHA Bieb. Asteraceae.

Col. No. K1602. One hundred seventy-eight km. northwest of Ardebil, Moghan road.

251024 to 251027. CICER ARIETINUM L. Fabaceae. **Chickpea.**

251024. Col. No. K774. Kandahar bazaar, Afghanistan.

251025. Col. No. K1395. Isfahan bazaar.

251026. Col. No. K1396. Isfahan bazaar.

251027. Col. No. K1572. Ardebil bazaar.

251028. CUCUMIS SATIVUS L. Cucurbitaceae. **Cucumber.**

Col. No. K741. Girishk bazaar, Afghanistan.

251029 to 251032. LENS CULINARIS Medic. Fabaceae. **Lentil.**

251029. Col. No. K1378. Gazvin bazaar, Isfahan.

251030. Col. No. K1379. Hamedan bazaar, Isfahan.

251031. Col. No. K1568. Ardebil bazaar.

251032. Col. No. K1569. Ardebil bazaar.

251033 to 251036. PHASEOLUS AUREUS Roxb. Fabaceae. **Mung bean.**

251033. Col. No. K735. Girishk bazaar, Afghanistan.

251034. Col. No. K736. Girishk bazaar, Afghanistan.

251035. Col. No. K1380. Isfahan bazaar.

251036. Col. No. K1381. Isfahan bazaar.

251037 and 251038. RAPHANUS SATIVUS L. Brassicaceae. **Radish.**

251037. Col. No. K739. Girishk bazaar, Afghanistan.

251038. Col. No. K773. Kandahar bazaar, Afghanistan.

251039. RUMEX sp. Polygonaceae.

Col. No. K708. South of ICA Staff House, Kandahar, Afghanistan.

251040. RUMEX sp.

Col. No. K1500. Six km. north of Flaverjan.

251041 to 251054.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 10, 1958.

251041. ALLIUM CEPA L. Liliaceae. **Onion.**

(No field note.) Purchased at Cooperative State Seed Store, Skopje, Macedonia.

251042. BETA VULGARIS L. Chenopodiaceae. **Sugar beet.**

Col. No. 17158. Twelve miles north of Niz, Serbia. Cultivated on state farm.

251043 and 251044. CAPSICUM FRUTESCENS L. Solanaceae. **Redpepper.**

251043. (No field note.) 'Ceme Bapqap'.

251044. (No field note.) Pungent variety.

251045 and 241046. FRAGARIA VESCA L. Rosaceae. **European strawberry.**

251045. Col. No. 17300. Thirty miles east of Titograd, Montenegro.

251046. Col. No. 17382. Mountain east of Kupres, Bosnia. Elevation 4,000 feet. Plants small; fruiting scapes erect.

251047 and 251048. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**

251047. Col. No. 17197. Tetovo, Macedonia. Elevation 2,000 feet. Good quality.

251048. Col. No. 17237. Market by Lake Ohrid, Macedonia. Elevation 3,000 feet. Good flavor and quality.

251049 and 251050. PHASEOLUS VULGARIS L. **Common bean.**

251049. Col. No. 17158.

251050. Col. No. 17238. Market, Lake Ohrid, Macedonia.

251051. PISUM SATIVUM L. Fabaceae. **Garden pea.**

Col. No. 17236. Market, Lake Ohrid, Macedonia. Elevation 3,000 feet.

251052. RUBUS sp. Rosaceae.

Col. No. 17301. Twenty-four miles east of Titograd, Montenegro. Elevation 5,000 feet. Fruit has good flavor.

251053. TRIFOLIUM REPENS L. Fabaceae. **Whiteclover.**

Col. No. 17222. Mavrosko Lake, Macedonia. Elevation 4,200 feet.

251054. VACCINIUM sp. Vacciniaceae.

Col. No.17302. Twenty-seven miles east of Titograd, Montenegro. Elevation 5,000 feet.

251055 to 251076.

From Mexico. Tubers collected by J. G. Hawkes, Birmingham University Plant Collecting Expedition to Mexico, Birmingham, England. Received Sept. 10, 1958.

251055 to 251059. SOLANUM BRACHISTOTRICHUM (Bitter) Rydb. Solanaceae.

251055. Col. No. 1234. Majalca, Chihuahua, 40 miles northwest of Chihuahua City. Elevation 7,000 feet. Dry rocky hillsides, partial shade of *Juniperus monosperma* and *Pinus cembroides.*

251056. Col. No. 1258. Majalca, Chihuahua, 40 miles northwest of Chihuahua City. Rocky slope south of village. Elevation 7,000 feet. Flowers small, white, stellate.

251057. Col. No. 1284. Durango State, between Ojito and Rio Balleza, near Chihuahua border. Elevation 7,500 feet.

251058. Col. No. 1313. Chihuahua State, 11 miles from Vergel. Elevation 8,200 feet.

251059. Col. No. 1317. Durango State, near Chihuahua border, 28 miles from Vergel. Elevation 5,900 feet.

251060 and 251061. SOLANUM DEMISSUM Lindl.

251060. Col. No. 1295. Balleza, Chihuahua, near Vergel. Elevation 8,500 feet.

251061. Col. No. 1296. Balleza, Chihuahua, near Vergel. Elevation 8,500 feet.

251062 to 251067. SOLANUM FENDLERI Gray.

251062. Col. No. 1230. Majalca, Chihuahua, 40 miles northwest of Chihuahua City. Elevation 6,900 feet.

251063. Col. No. 1355. Canon de los Lirios, Chihuahua, four miles west of Lirios Village. Elevation 7,200 feet.

251064. Col. No. 1356. Lime soil, Coahuila, near Saltillo, Lirios. Elevation 7,500 feet. Weeds in cultivated field.

251065. Col. No. 1357. Saltillo, Coahuila. Elevation 6,900 feet.

251066. Col. No. 1373. Galeana, Cerro Potosi, Nuevo Leon. Elevation 8,000 feet.

251067. Col. No. 1378. Cerro Potosi, Nuevo Leon. Elevation 8,200 feet.

251068. SOLANUM LEPTOSEPALUM Correll.

Col. No. 1368. Road west of San Antonio de las Alazanas, Sierra Madre Oriental. Elevation 9,000 feet. Flowers purple; sepals long; fruits warted.

251069. SOLANUM POLYTRICHON Rydb.

Col. No. 1283. Between Ojito and Rio Balleza, Durango State, near Chihuahua border. Elevation 7,500 feet.

251070 to 251072. SOLANUM STOLONIFERUM Schlecht.

251070. Col. No. 1293. Vergel, Chihuahua, near Durango border. Elevation 9,500 feet.

251071. Col. No. 1298, Balleza, Chihuahua. Elevation 8,500 feet. Flowers from white to purple.

251072. Col. No. 1301. Balleza, Vergel, Chihuahua State. Elevation 9,000 feet.

251073 to 251076. SOLANUM VERRUCOSUM Schlecht.

251073. Col. No. 1345. In wet, shady ravine, Canon de los Lirios, Coahuila, Saltillo.

251074. Col. No. 1350. Top of mountain ridge, in rich humid soil, Canon de los Lirios, Saltillo, Coahuila. Elevation 10,800 feet.

251075. Col. No. 1374. Rich soil under pines, Galeana, Cerra Potosi, Nuevo Leon. Elevation 8,800 feet.

251076. Col. No. 1375. Rich soil under pines, Galeana, Cerra Potosi, Nuevo Leon. Elevation 8,800 feet.

251077 to 251083.

From Afghanistan, Iran, and Egypt. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 10, 1958.

251077. CENTAUREA DEPRESSA Bieb. Asteraceae.

Col. No. K1510. Twenty-five miles northwest of Tabriz, Iran. Plants to 12 inches high; flowers purple.

251078. CENTAUREA MOSCHATA L. **Sweet-sultan.**

Col. No. K1594. Seventy-five miles northwest of Ardebil-Moghan road, Iran. Plants to 15 inches high; flowers yellow.

251079. CENTAUREA sp.

Col. No. K717. Near ICA staff house, Kandahar, Arghanistan. Plants to 36 inches high.

251080. CENTUREA sp.

Col. No. K1562. Ardebil road, 194 miles from Tabriz, Iran. Plants to 15 inches high; flowers yellow.

251081 and 251082. NIGELLA SATIVA L. Ranunculaceae. **Black cumin.**

251081. Col. No. K1032. Alevandria bazaar, Egypt.

251082. Col. No. K1069. Warehouse, Qus, Egypt.

251083. PAPAVER SOMNIFERUM L. Papaveraceae. **Opium poppy.**

Col. No. K738. Girishk bazaar, Afghanistan.

251084 to 251086.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 10, 1958.

251084. COLCHICUM SPECIOSUM Stev. Melanthiaceae.

Col. No. 17313. South end of Durmitor, Montenegro. Elevation 4,600 feet.

251085. PIMPINELLA ANISUM L. Apiaceae. **Anise.**

(No field note.)

251086. ROSA sp. Rosaceae.

Col. No. 17356. Arid meadow land, above Livno, Bosnia. Elevation 4,000 feet. Plant to eight inches high.

251087 to 251094.

From Brazil. Seeds presented by the Instituto Agronomico, Campinas, Sao Paulo. Received Sept. 12, 1958.

251087. ACROCOMIA SCLEROCARPA Mart. Phoenicaceae. **Macauba palm.**

251088. BARNADESIA ROSEA Lindl. Asteraceae.

251089. CHORISIA SPECIOSA St. Hil. Bombacaeae. **Floss-silktree.**

251090. CORDYLINE DRACAENOIDES Kunth. Liliaceae.

251091. DIPLUSODON VIRGATUS Pohl Lythraceae.

251092. LAGERSTROEMIA SPECIOSA (L.) Pers. Lythraceae. **Queen crapemyrtle.**

251093. MAURITIA VINIFERA Mart. Phoenicaceae. **Palm.**

251094. RAPHIA sp. Phoenicaceae.

251095 to 251151.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 12, 1958.

251095. SALIX sp. Salicaceae.

Col. No. 17488. Sava River Valley. Elevation 500 feet. Young plants seven feet high; stems slender. Cultivated for making baskets, furniture, etc. (Cuttings.)

251096. AGROPYRON CRISTATUM (L.) Gaertn. Poaceae. **Crested wheatgrass.**

Col. No. 17189. Dry slope, Ovche Polje, Macedonia. Elevation 1,200 feet. Tufted perennial; leaves sparse.

251097 to 251099. AGROSTIS ALBA L. Poaceae. **Redtop.**

251097. Col. No. 17396. Thirty miles east of Titograd, Montenegro. Elevation 4,200 feet.

251098. Col. No. 17315. South end of Durmitor, Montenegro. Elevation 4,600 feet. Very vigorous perennial, growing out of anthill.

251099 Col. No. 17363. Kupres Valley, Bosnia. Elevation 3,800 feet. Fine-leaved perennial on old gopher mound.

251100. BOTHRIOCHLOA ISCHAEMUM (L.) Keng Poaceae. **King's Ranch bluestem.**

Col. No. 17350. Between Dubrovnic and Split, Dalmatia. Elevation 500 to 1,000 feet. Small-tufted xerophytic perennial; palatable.

251101. ASTRAGALUS HAMOSUS L. Fabaceae. **Milkvetch.**

Col. No. 17181. Near Veles, Macedonia. Elevation 1,000 feet. Winter-spring annual reported to be eagerly eaten by sheep.

251102. BRACHYPODIUM SYLVATICUM (Huds.) Beauv. Poaceae.

Col. No. 17180. Road bank six miles north of Veles, Macedonia. Elevation 1,000 feet. Graceful grass; unpalatable.

251103. BRACHYPODIUM RAMOSUM (L.) Roem. & Schult.

Col. No. 17351. South of Split, Dalmatia. Elevation 500 feet. Xerophytic perennial; unpalatable.

251104. BROMUS MOLLIS L. Poaceae. **Soft chessgrass.**

Col. No. 17268. North slope of Shar Planinna. Elevation 4,200 feet. Hairy annual; stem soft, leafy.

251105 and 251106. BROMUS ERECTUS Huds. **Meadow brome.**

251105. Col. No. 17306. In meadow, Durmitor Mountain, Montenegro. Elevation 5,100 feet. Perennial forming cespitose colonies; cold resistant.

251106. Col. No. 17358. Southwest of Kupres, Bosnia. Elevation 3,600 feet. Leaves fine.

251107. BROMUS STAMINEUS Desv. **Harlan brome.**

Col. No. 17361. Kupres Valley, Bosnia. Elevation 3,800 feet. Narrow-leaved perennial.

251108 and 251109. CYNODON DACTYLON (L.) Pers. Poaceae. **Bermudagrass.**

251108. Col. No. 17187. Dry coarse soil, Ovche Polje, Macedonia. Elevation 1,200 feet. Plant vigorous, coarse, forming ground cover.

251109. Col. No. 17191. Margin of flood plain, Ovche Polje, Macedonia. Elevation 1,200 feet. Coarse perennial.

251110. CYNOSURUS CRISTATUS L. Poaceae. **Crested dogtail.**

Col. No. 17389. Twelve miles east of Sarajevo, Bosnia. Elevation 3,000 feet. A minor component in heavy grass mixture.

251111 to 251113. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

251111. Col. No. 17270. North slope of Shar Plannina. Elevation 4,200 feet. Plant vigorous.

251112. Col. No. 17288. Murino, Montenegro. Elevation 3,500 feet. Medium leaf bulk.

251113. Col. No. 17387. Moist soil, twelve miles east of Sarajevo, Bosnia. Growing rankly with other grasses.

251114. DESCHAMPSIA sp. Poaceae.

Col. No. 17291. Murino, Montenegro. Elevation 3,500 feet. Large grass forming a deep cover.

251115. DESCHAMPSIA sp.

Col. No. 17362. Kupres Valley, Bosnia. Elevation 3,800 feet. Perennial with short culms; eaten by livestock.

251116 and 251117. FESTUCA ELATIOR L. Poaceae. **Meadow fescue.**

251116. Col. No. 17262. North slope of Shar Plannina. Elevation 4,200 feet. Perennial; leaves light green, succulent.

251117. Col. No. 17283. Alluvium, Murino, Montenegro. Elevation 3,500 feet. Perennial in mixed meadow.

251118. FESTUCA OVINA var. VIVIPARA L.

Col. No. 17319. Meadow slope, south end of Mount Durmitor, Montenegro. Leaves tender, yellow-green, wide.

251119 to 251121. FESTUCA ELATIOR L. Poaceae. **Meadow fescue.**

251119. Col. No. 17328. Slope south of Shavnick, Montenegro. Elevation 3,900 feet. Stunted perennial in meadow.

251120. Col. No. 17353. Livno Valley, Bosnia. Elevation 2,300 feet.

251121. Col. No. 17366. State farm, Kupres Valley, Bosnia. Elevation 3,800 feet. Apparent perennial.

251122. FESTUCA ARUNDINACEA Schreb. **Tall fescue.**

Col. No. 17386. Twelve miles east of Sarajivo, Bosnia. Elevation 3,000 feet. Variable population.

251123. FESTUCA OVINA L. **Sheep fescue.**

Col. No. 17290. Murino, Montenegro. Elevation 3,500 feet. Short-leaved perennial on drier side of meadow.

251124. FESTUCA RUBRA var. HETEROPHYLLA (Lam.) Mutel. **Shade fescue.**

Col. No. 17298. Thirty miles east of Titograd, Montenegro. Elevation 4,200 feet. Plant short-leaved.

251125 to 251128. FESTUCA OVINA L. **Sheep fescue.**

251125. Col. No. 17304. Durmitor Mount Montenegro. Elevation 5,100 feet. Dominant short-grass perennial in meadow.

251126. Col. No. 17311. South end of Durmitor, Montenegro. Elevation 4,600 feet. Rank growth in moist soil; culms very long.

251127. Col. No. 17330. Highland slope meadows, south of Shavnick, Montenegro. Elevation 5,250 feet. Short lawn fescue. One of the prevailing grasses.

251128. Col. No. 17355. Arid brownish soil, above Livna, Bosnia. Elevation 4,000 feet. Plant short-leaved; culms short.

251129. FESTUCA RUBRA L. **Red fescue.**

Col. No. 17391. Highland meadow, Romanian Mountains east of Sarajivo, Bosnia. Elevation 4,000 feet. A variable and dominating population with narrow leaves.

251130. FESTUCA RUBRA L. **Red fescue.**

Col. No. 17274. North slope of Shar Plannina. Elevation 5,700 feet. Fine-leaved turf with clovers.

251131. FESTUCA OVINA L. **Sheep fescue.**

Col. No. 17292. Murino, Montenegro. Elevation 3,500 feet. Lawn type with very short blade; never needs mowing.

251132 to 251134. FESTUCA RUBRA L. **Red fescue.**

251132. Col. No. 17310. Durmitor, Montenegro. Elevation 5,100 feet. Plant vigorous, cold hardy, sod forming; leaves long.

251133. Col. No. 17316. South end of Mount Durmitor, Montenegro. Elevation 4,600 feet. Plant vigorous, to 1.5 feet high.

251134. Col. No. 17329. South of Shavnick, Montenegro. Elevation 5,250 feet. Leaves yellowish; heads purplish; culms strong, long.

251135. FESTUCA OVINA var. DURIUSCULA (L.) Koch. **Hard fescue.**

Col. No. 17305. Durmitor Mount Montenegro. Elevation 5,100 feet. Taller than P.I. 251125; cold hardy.

251136. FESTUCA ELATIOR L. **Meadow fescue.**

Col. No. 17357. Brown leached soil, southwest of Kupres, Bosnia. Elevation 3,600 feet. Fine-leaved xerophyte on fallow land.

251137. FESTUCA RUBRA var. HETEROPHYLLA (Lam.) Mutel. **Shade fescue.**

Col. No. 17368. Kupres Valley, Bosnia. Elevation 3,800 feet. Short-leaved, sod-forming perennial dominating the *Festuca-Nardua* community.

251138. FESTUCA RUBRA L. **Red fescue.**

Col. No. 17376. Twelve miles south of Kupres, Bosnia. Elevation 4,000 feet. Culms tall.

251139. LATHYRUS sp. Fabaceae.

Col. No. 17326. South of Shavnick, Montenegro. Elevation 3,900 feet. Sprawling annual vine to three feet; flowers bright pink.

251140 and 251141. LOLIUM PERENNE L. Poaceae. **Perennial ryegrass.**

251140. Col. No. 17157. Between Slatina and Bunar, Serbia. Colonial sod-like perennial.

251141. Col. No. 17184. Ovche Polje, Macedonia. Elevation 1,200 feet.

251142. LINUM PERENNE L. Linaceae. **Perennial flax.**

Col. No. 17192. Ovche Polje, Macedonia. Elevation 1,200 feet. Annual spring herb.

251143. LOTUS CORNICULATUS L. Fabaceae. **Birdsfoot trefoil.**

Col. No. 17172. Six miles northeast of Skopje, Macedonia. Weak-stemmed perennial to one foot high.

251144 to 251147. LOTUS CORNICULATUS var. CILIATUS (Tenore) C. Koch. **Trefoil.**

251144. Col. No. 17185. Ovche Polje, Macedonia. Elevation 1,200 feet. Spreading or decumbent herb.

251145. Col. No. 17327. South of Shavnick, Montenegro. Elevation 3,900 feet. Decumbent; sparsely scattered on drier slope of meadow.

251146. Col. No. 17280. Near Prizren, Serbia. Elevation 2,800 feet. Erect perennial to 16 inches high; stems leafy; seeding irregularly.

251147. Col. No. 17284. Murino, Montenegro. Elevation 3,500 feet. Scattered, variable population; pods large.

251148. LOTUS DECUMBENS Poir. **Trefoil.**

Col. No. 17349. Riverside swamp, near Metkovic, Dalmatia. Spreading perennial.

251149. LOTUS TENUIS Waldst. & Kit. ex Willd. **Trefoil.**

Col. No. 17354. Livno Valley, Bosnia. Elevation 2,300 feet. A close-cropped, spreading herb.

251150 and 251151. MEDICAGO LUPULINA L. Fabaceae. **Black medic.**

251150. Col. No. 17265. North slope, Shar Plannina. Elevation 4,200 feet. Vigorous, spreading, decumbent spring annual.

251151. Col. No. 17325. South of Shavnick, Montenegro. Elevation 3,900 feet. Spring annual.

251152 to 251154.

From Italy. Plants collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 17, 1958.

251152. ASPARAGUS sp. Convallariaceae.

Col. No. 17589. Sandy soil, Maritime Woods, near Pisa.

251153. MEDICAGO sp. Fabaceae.

Col. No. 17573. Six miles north of Pietramala, Bologna road. Elevation 3,000 feet. Rhizomatous perennial; stems short, fine; leaves fine; flowers purple turning yellow and greenish-yellow.

251154. RUSCUS ACULEATUS L. Convallariaceae. **Butcher's broom.**

Col. No. 17588. 'Pungi-topo'. Sandy soil, Maritime Woods, near Pisa. Perennial.

251155 to 251202.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 16, 1958.

251155. MEDICAGO ORBICULARIS (L.) All. Fabaceae **Buttonclover.**

Col. No. 17176. Winter sheep range, near Veles, Macedonia. Elevation 1,000 feet. Winter-spring annual.

251156. MEDICAGO SATIVA L. **Alfalfa.**

Col. No. 17228. 'Debar'. (No field note.)

251157 and 251158. NARDUS STRICTA L. Poaceae.

251157. Col. No. 17331. Durmitor Mount Montenegro. Elevation 5,200 feet. Perennial, forming cushion to six inches deep.

251158. Col. No. 17369. Kupres Valley, Bosnia. Elevation 3,800 feet. Dense perennial; long leaved.

251159. ONOBRYCHIS ARENARIA DC. Fabaceae.

Col. No. 17178. Dry slope near Veles, Macedonia. Elevation 1,000 feet. Palatable perennial herb; flowers white.

251160. ONOBRYCHIS VICIAEFOLIA Scop. **Sainfoin.**

Col. No. 17182. Six miles north of Veles, Macedonia. Elevation 1,000 feet. Small, drought-inhibited perennial; leaves green.

251161. POA COMPRESSA L. Poaceae. **Canada bluegrass.**

Col. No. 17309. Durmitor Mountain, Montenegro. Elevation 5,100 feet. Cold-hardy grass in meadow.

251162 and 251163. POA PRATENSIS L. **Kentucky bluegrass.**

251162. Col. No. 17303. Durmitor Mountain, Montenegro. Elevation 5,100 feet.

251163. Col. No. 17373. Twelve miles south of Kupres, Bosnia. Elevation 4,000 feet.

251164. PUCCINELLIA LIMOSA (Schur) Holmb. Poaceae.

Col. No. 17186. Ovche Polje, Macedonia. Elevation 1,200 feet. Thriving perennial in spring flood basin.

251165 and 251166. POA PRATENSIS L. Poaceae. **Kentucky bluegrass.**

251165. Col. No. 17307. Durmitor Mountain, Montenegro. Elevation 5,100 feet. Plant leafy, cold hardy; crown to eight inches deep.

251166. Col. No. 17374. Twelve miles south of Kupres, Bosnia. Elevation 4,000 feet. Perennial; leaves broad.

251167. POA TRIVIALIS L. **Roughstalk bluegrass.**

Col. No. 17395. Romanian Mountains east of Sarajevo, Bosnia. Elevation 3,800 feet. Rank grass.

251168 and 251169. SANGUISORBA MINOR Scop. Rosaceae. **Small burnet.**

251168. Col. No. 17175. Six miles north of Veles, Macedonia. Elevation 1,000 feet. Perennial herb.

251169. Col. No. 17287. Murino, Montenegro. Elevation 3,500 feet.

251170 to 251172. TRIFOLIUM AGRARIUM L. Fabaceae. **Hop clover.**

251170. Col. No. 17258. Northeast end of Shar Plannina. Elevation 4,000 feet.

251171. Col. No. 17289. Murino, Montenegro. Elevation 3,500 feet.

251172. Col. No. 17271. North slope, Shar Plannina. Elevation 4,500 feet.

251173. TRIFOLIUM DUBIUM Sibth. **Small hop clover.**

Col. No. 17266. North slope, Shar Plannina. Elevation 4,200 feet. Tap-rooted annual.

251174 to 251177. TRIFOLIUM FRAGIFERUM L. **Strawberry clover.**

251174. (No field note or number.) Six miles from Prizren, Serbia.

251175. Col. No. 17348. Near Metkovic, Dalmatia. Leafy herb.

251176. Col. No. 17163. Steubel, north of Vranje.

251177. Col. No. 17177. Near Veles, Macedonia. Elevation 1,000 feet. Perennial herb along drainways.

251178 to 251188. TRIFOLIUM PRATENSE L. **Red clover.**

251178. Col. No. 17161. Twelve miles north of Vranje.

251179. Col. No. 17263. North slope of Shar Plannina. Elevation 4,200 feet. Very variable.

251180. Col. No. 17276. North slope of Shar Plannina. Elevation 5,700 feet. Plant dwarf, chlorotic, cold-hardy perennial.

251181. Col. No. 17278. Soil poor, north slope of Shar Plannina. Elevation 4,200 feet. Low stunted herb.

251182. Col. No. 17286. Murino, Montenegro. Elevation 3,500 feet. Plants variable.

251183. Col. No. 17293. Thirty-one miles east of Titograd, Montenegro. Plants small leaved.

251184. Col. No. 17318. South end of Mount Durmitor, Montenegro. Elevation 4,600 feet. Depauperate perennial; leaves small.

251185. Col. No. 17359. Dry roadside, Kupres Valley, Bosnia. Elevation 3,800 feet. Plants stunted.

251186. Col. No. 17370. Twelve miles south of Kupres, Bosnia. Elevation 4,000 feet. Plants low, spreading, cespitose.

251187. Col. No. 17380. Mountain east of Kupres, Bosnia. Elevation 4,000 feet. Bushlike, long-lived, perennial to four feet high; flowers pink. Excellent for roadsides, parkways, etc.

251188. Col. No. 17384. Twelve miles east of Sarajevo, Bosnia. Elevation 3,000 feet. Spontaneous, forming tall clumps.

251189 to 251197. TRIFOLIUM REPENS L. **Whiteclover.**

251189. Col. No. 17159. Twelve miles north of Vranje. Perennial; flowers pinkish.

251190. Col. No. 17162. Steubel, north of Vranje.

251191. Col. No. 17269. North slope, Shar Plannina. Flowers pink and white.

251192. Col. No. 17273. North slope, Shar Plannina. Elevation 5,700 feet. A vigorous cold-resistant population.

251193. Col. No. 17295. On slope 31 miles east of Titograd, Montenegro. Elevation 4,200 feet. Late-flowering colony.

251194. Col. No. 17314. South of Durmitor, Montenegro. Elevation 4,600 feet. Plants low, spreading.

251195. Col. No. 17371. Twelve miles south of Kupres, Bosnia. Elevation 4,000 feet.

251196. Col. No. 17379. Mountain east of Kupres, Bosnia. Elevation 4,000 feet.

251197. Col. No. 17393. Romanian mountains east of Sarajevo, Bosnia. Elevation 4,000 feet.

251198. TRIFOLIUM RESUPINATUM L. **Persian clover.**

Col. No. 17196. Bottomland meadows; soil heavy alkaline clay, state farm 10 miles south of Skopje, Macedonia. Elevation 1,000 feet.

251199. VICIA ERVILLIA (L.) Willd. Fabaceae. **Bittervetch.**

Col. No. 17183. Near Veles, Macedonia. Elevation 1,000 feet. Small spring annual.

251200. VICIA SATIVA L. **Common vetch.**

Col. No. 17339. Seed store, Dubrovnick, Dalmatia.

251201. VICIA sp.

Col. No. 17299. Thirty-one miles east of Titograd, Montenegro. Elevation 4,200 feet. Upright bushy perennial to two feet high.

251202. VICIA sp.

Col. No. 17378. Mountain east of Kupres, Bosnia. Elevation 4,000 feet. Perennial; stems to four feet.

251203. RUBUS sp. Rosaceae.

From Argentina. Seeds presented by Robert Reynolds, Tierra del Fuego. Received Sept. 17, 1958.

Native to Tierra del Fuego.

251204. CNICUS BENEDICTUS L. Asteraceae. Blessed thistle.

From California. Seeds presented by W. H. Isom, Brawley. Received Sept. 17, 1958.

251205 to 251214.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 18, 1958.

251205. MEDICAGO FALCATA L. Fabaceae. **Yellow-flowered alfalfa.**

Col. No. 17173. Six miles northeast of Skopje, Macedonia. Elevation 2,000 feet. Cespitose perennial; stems leafy to two feet long; flowers yellow.

251206. POA BULBOSA L. Poaceae. **Bulbous bluegrass.**

Col. No. 17229. Dry rocky slope, Lake Ohrid, Macedonia. Elevation 3,000 feet. Tufted perennial.

251207. POA NEMORALIS L. **Wood bluegrass.**

Col. No. 17226. West of Mavrosko Lake, Macedonia. Elevation 4,200 feet. Shade tolerant xerophytic perennial; leaves thin, to five inches long.

251208. EREMOPOA PERSICA (Trin.) Roshev. Poaceae.

Col. No. 17206. Wet meadow, Mavrosko Lake, Macedonia. Elevation 4,200 feet.

251209. TRIFOLIUM AGRARIUM L. Fabaceae. **Hop clover.**

Col. No. 17204. Dry slopes, Mavrosko Lake, Macedonia. Elevation 4,200 feet. Small spring annual; flowers yellow.

251210 and 251211. TRIFOLIUM MEDIUM Huds. **Zig-zag clover.**

251210. Col. No. 17245. Above Resen, Macedonia. Elevation 4,000 feet. Hairy perennial; flower heads large, red.

251211. Col. No. 17247. Above Resen, Macedonia. Elevation 4,000 feet. Big-leaved perennial herb.

251212. TRIFOLIUM REPENS L. **Whiteclover.**

Col. No. 17210. Mavrosko Lake, Macedonia. Elevation 4,200 feet. Small atypical clone; stems long stoloniferous.

251213. TRIFOLIUM ALEXANDRINUM L. **Berseem clover.**

Col. No. 17154. Irrigation Experimental Farm, Srbobran, Serbia. Tall closely colonial annual.

251214. TRIFOLIUM sp.

Col. No. 17335. Nicksich, Montenegro. Elevation 2,100 feet. Spreading, decumbent, perennial herb.

251215 to 251222.

From Afghanistan. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 18, 1958.

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251215. ARISTIDA PENNATA Trin. Poaceae.

Col. No. K749. North of Marja.

251216. BROMUS TECTORUM L. Poaceae. **Cheatgrass.**

Col. No. K755. Five miles east of Khagiani. Plant to six inches high.

251217 and 241218. BROMUS RACEMOSUS L. **Bald brome.**

251217. Col. No. K759. Twenty miles west of Kandahar. Plant to 10 inches high.

251218. Col. No. K767. One and one-half miles south of Kandahar. Plants to 15 inches high.

251219. CANNABIS SATIVA L. Moraceae. **Hemp.**

Col. No. K743. Girishk bazaar.

251220. PUCCINELLIA DISTANS (L.) Parl. Poaceae.

Col. No. K766. One and one-half miles south of Kandahar. Plants to 15 inches high.

251221. VICIA LUTEA L. Fabaceae.

Col. No. K757. Twenty miles west of Kandahar.

251222. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. K734. Girishk bazaar.

251223 to 251225.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 18, 1958.

Purchased at Cooperative State Seed Store, Skopje, Macedonia. Of local origin.

251223. CANNABIS SATIVA L. Moraceae. **Hemp.**

251224. LOLIUM PERENNE L. Poaceae. **Perennial ryegrass.**

251225. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

251226 to 251233.

From Israel, Afghanistan, Iran and Egypt. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 18, 1958.

251226 and 251227. CICER ARIETINUM L. Fabaceae. **Chickpea.**

251226. Col. No. K1115. Jerusalem bazaar, Israel.

251227. Col. No. K1116. Jerusalem bazaar, Israel.

251228. DAUCUS CAROTA L. Apiaceae. **Carrot.**

Col. No. K768. Kandahar bazaar, Afghanistan.

251229. PHASEOLUS AUREUS Boxb. Fabaceae. **Mung bean.**

Col. No. K770. Kandahar bazaar, Afghanistan.

251230. RUMEX sp. Polygonaceae.

Col. No. K709.

251231 and 251232. VICIA FABA L. Fabaceae. **Broadbean.**

251231. Col. No. K1667. Meshed bazaar, Iran.

251232. Col. No. K1080. Asyut bazaar, Egypt.

251233. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. K771. Kandahar bazaar, Afghanistan.

251234. GOSSYPIUM HERBACEUM L. Malvaceae. **Levant cotton.**

From Aden. Seeds presented by the Empire Cotton Growing Corporation, London, England. Received Sept. 19, 1958.

Collected at Beihan.

251235 to 251282.

From Iran, Pakistan, Egypt, and India. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 19, 1958.

251235 to 251240. Lyallpur Agricultural College, Lyallpur, Pakistan.

251235. BRASSICA CAMPESTRIS L. Brassicaceae. **Bird rape.**

Col. No. K369.

251236. BRASSICS NAPUS L. **Rape.**

Col. No. K369.

251237. BRASSICA CAMPESTRIS L. **Bird rape.**

Col. No. K370.

251238. BRASSICA CAMPESTRIS var. SARSON Prain **Sarson.**

Col. No. K368.

251239. BRASSICA JUNCEA (L.) Coss. **Chinese mustard**

Col. No. K371.

251240. BRASSICA NAPUS L. **Rape.**

Col. No. K366.

251241. BRASSICA sp.

Col. No. K1031. Alexandria bazaar, Egypt.

251242 and 251243. CICER ARIETINUM L. Fabaceae. **Chickpea.**

251242. Col. No. K674. Armitsar bazaar, India.

251243. Col. No. K1030. Alexandria bazaar, Egypt.

251244. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

Col. No. K675. Amritsar bazaar, India.

251245 to 251247. LACTUCA SATIVA L. Cichoriaceae. **Garden lettuce.**

251245. Col. No. K1058. Kena, Egypt. Grown for oil in same manner as safflower.

251246. Col. No. K1065. Qus, Egypt.

251247. Col. No. K1066. Warehouse of Ibrahim Osman, Qus, Egypt.

251248. LENS CULINARIS Medic. Fabaceae. **Lentil.**

Col. No. K1068. Kena, Egypt.

251249. EREMOPYRUM ORIENTALE (L.) Taub. & Spach Poaceae.

Col. No. K1507. Nine miles northwest of Tabriz, Iran. Plants to six inches high.

251250. AGROSTIS ALBA L. Poaceae. **Redtop.**

Col. No. 1523. Thirty-two miles west of Tabriz, West Pakistan.

251251. POA sp.

Col. No. 1632. Hot springs north side of Mount Favalen, east of Tabriz, Iran.

251252. BOTHRIOCHOLA ISCHAEMUM (L.) Keng Poaceae. **Kings Ranch bluestem.**

Col. No. 1582. Twenty-four miles northwest of Ardebil, Iran. Plants to 24 inches high.

251253. CANNABIS SATIVA L. Moraceae. **Hemp.**

Col. No. 1491. 'Shahdaneh'. Flaverjan bazaar, Iran.

251254. CARTHAMUS GLAUCUS Bieb. Asteraceae.

Col. No. 1110. One mile north of Wadi Yabis, Jordan.

251255 to 251261. CARTHAMUS SYRIACUS (Boiss.) Dinsm.

251255. Col. No. K1093. Twenty-five miles from Amman, Ardah Road, Jordan. Pubescent; long bracts.

251256 to 251261. Deir Allah Station, Jordan.

251256. Col. No. K1094.

251257. Col. No. K1095.

251258. Col. No. K1096.

251259. Col. No. K1097.

251260. Col. No. K1098.

251261. Col. No. K1106.

251262 to 251268. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

251262 to 251264. One mile east of Deir Allah Station, Jordan.

251262. Col. No. K1099. Plants to two feet high, spineless; flowers red; heads 0.75 to 1.25 inches long.

251263. Col. No. K1100. Plant spiny; flowers yellow.

251264. Col. No. K1101. Plant spiny; flowers golden yellow.

251265 and 251266. Deir Allah Station, Jordan.

251265. Col. No. K1103. Plant spineless; flowers red.

251266. Col. No. K1104. Plant spineless; flowers orange.

251267. Col. No. K1105. One mile north of Deir Allah, Jordan. Plant spineless, to 24 inches high; flowers red.

251268. Col. No. K1108. Wadi Yabis Sub-station, Jordan.

251269. HORDEUM VULGARE L. Poaceae. **Common barley.**

Col. No. K377. Cereal Section, Lyallpur Agricultural College, Lyallpur, West Pakistan. A popping type, hull-less.

251270. LOTUS sp. Fabaceae.

Col. No. K1654. West boundary of Golmacon, Iran. Plant prostrate; flowers yellow.

251271. MEDICAGO LUPULINA L. Fabaceae. **Black medic.**

Col. No. K1652. North boundary of Golmacon, Iran. Plant prostrate.

251272. MELICA CUPANI Guss. Poaceae.

Col. No. K1584. Twenty-one miles northwest of Ardebil, Iran.

251273. PANICUM MILIACEUM L. Poaceae. **Proso millet.**

Col. No. K1501. 'Arzan'. Isfahan bazaar, Iran.

251274. PHALARIS CANARIENSIS L. Poaceae. **Canarygrass.**

Col. No. K1033. Alexandria bazaar, Egypt.

251275. POA BULBOSA L. Poaceae. **Bulbous bluegrass.**

Col. No. K1653. North boundary of Golmacon, Iran. Plants to 15 inches high.

251276 to 251278. POA PRATENSIS L. **Kentucky bluegrass.**

251276. Col. No. K1617. Thirteen miles south of Lari, slope of Mount Savalan, Iran.

251277. Col. No. K1555. One hundred miles east of Tabriz, road to Ardebil via Sarab, Iran.

251278. Col. No. K1561. One hundred fourteen miles east of Tabriz, road to Ardebil via Sarab, Iran. Plants to 10 inches high.

251279. TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

Col. No. K1651. North boundary of Golmacon, Iran. Flowers pink.

251280. TRIFOLIUM REPENS L. **Whiteclover.**

Col. No. K1565. One hundred fifty miles east of Tabriz, road to Ardebil via Sarab, Iran.

251281. TRIGONELLA FOENUM-GRAECUM L. Fabaceae. **Fenugreek.**

Col. No. K1487. 'Chanbaliz'. Twelve miles west of Isfahan, Iran.

251282. VICIA VILLOSA Roth. Fabaceae. **Hairy vetch.**

Col. No. K1499. Four miles north of Flaverjan. Flowers purple.

251283. CEPHALOTUS FOLLICULARIS Labill. Cephalotaceae.

From Australia. Plants collected by W. H. Hodge, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 23, 1958.

S–3. 'Albany Pitcher Plant'. Albany-Denmark road, west of Denmark, West Australia. Herb with rosette of small fleshy leaves, and long erect peduncle bearing small panicles of flowers, with pitchers like *Nepenthes* spp. or *Sarracenia* spp., but not related to either.

251284 to 251295.

From Jordan and Israel. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 22, 1958.

251284 to 251291. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

251284. Col. No. K1109. Wadi Yabis Sub-station, Jordan. Plant spiny; flowers red or orange.

251285. Col. No. K1111. Three miles north of Wadi Yabis Sub-station. Plant to 30 inches high, spineless; flowers red.

251286. Col. No. K1112. Three miles north of Wadi Yabis Sub-station. Plant green, spiny; flowers yellowish.

251287. Col. No. K1113. Three miles north of Wadi Yabis Sub-station. Plant green, spiny; flowers yellowish.

251288. Col. No. K1114. Amman-Nabulus road, 60 miles from Amman, Jordan. Plants to 30 inches high, spineless; flowers red.

251289. Col. No. K1119. Jerusalem bazaar.

251290. Col. No. K1120. Jerusalem bazaar.

251291. Col. No. K1644. (No field note.)

251292 and 251293. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

251292. Col. No. K1121. Jerusalem bazaar.

251293. Col. No. K1122. Jerusalem bazaar.

251294 and 241295. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

251294. Col. No. K1102. Deir Allah Station, Jordan. Plant resistant to root rots.

251295. Col. No. K1123. Jerusalem bazaar.

251296 to 251323.

From the United States. Seeds presented by Charles M. Rick, Department of Vegetable Crops, University of California, Davis, California. Received Sept. 22, 1958.

Localities given are former sources of material.

251296 to 251300. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

251296. LA 396. Market, Chiclayo, Peru.

251297. LA 409. Guayaquil, Ecuador. Fruit with large fasciations.

251298. LA 457. Market, Tacna, Peru.

251299. LA 475. Sucua, Ecuador.

251300. LA 476. Sucua, Ecuador.

251301 and 251302. LYCOPERSICON GLANDULOSUM C. H. Mull.

251301. LA 364. Nine km. west of Canta, Peru.

251302. LA 366. Twelve km. west of Canta, Peru.

251303. LYCOPERSION HIRSUTUM Humb. & Bonpl.

LA 360. Five km. west of Canta, Peru.

251304 and 251305. LYCOPERSICON HIRSUTUM var. GLABRATUM C. H. Mull.

251304. LA 407. El Mirador, outskirts of Guayaquil, Ecuador.

251305. LA 440. One hundred twenty-one km. from Guayaquil, near Sibambe, Ecuador.

251306 to 251312. LYCOPERSICON PERUVIANUM (L.) Mill.

251306. LA 374. Culebras, Peru.

251307. LA 378. Cascas, Peru.

251308. LA 446. Lomas de Atiquipa, Peru.

251309. LA 448. Chala, Peru.

251310. LA 449. Atico, Peru.

251311. LA 451. Eighteen km. south of Arequipa, Peru.

251312. LA 441. Cerro Campana, near Trujillo, Peru.

251313. LYCOPERSICON PERUVIANUM var. DENTATUM Dun.

LA 470. Taltal, Chile.

251314. LYCOPERSICON PERUVIANUM var. HUMIFUSUM C. H. Mull.

LA 383. Along the Rio Jequetepeque, Peru, 64 km. east of Pan-American Highway.

251315 to 251323. LYCOPERSICON PIMPINELLIFOLIUM (Jusl.) Mill.

251315. LA 381. Pongo, Peru, 45 km. from Pan-American Highway, Cajamarca road.

251316. LA 384. Chilete, Peru.

251317. LA 397. Twenty km. east of Chiclayo, Peru.

251318. LA 400. Hancabamba road, Buenos Aires, Peru.

251319. LA 411. Pichilingue, Ecuador.

251320. LA 412. Pichilingue, Ecuador.

251321. LA 413. Cerecita, Ecuador.

251322. LA 417. Punta Polvora, Puna Island, Ecuador.

251323. LA 418. Daule, Ecuador.

251324. PRUNUS ARMENIACA L. Amygdalaceae. **Apricot.**

From France. Seeds presented by the Station de Recherches Viticoles and d'Arboriculture Fruitiere, Pont-de-la-Maye. Received Sept. 22, 1958.

'Rouge de Roussillon'. From the Cooperative de Recherches Arboricoles, Perpignan, Rousillon. A very old variety that includes several types or strains.

251325 and 251326.

From Iran. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received September 23, 1958.

251325. ALLIUM sp. Liliaceae.

Col. No. K1598. Eighty miles northwest of Ardebil, Hoghan road. Plant to 30 inches high.

251326. BRASSICA sp. Brassicaceae.

Col. No. K1647. Golmacon bazaar.

251327. CYTISUS sp. Fabaceae.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received September 23, 1958.

Col. No. 17381. Mountain east of Kupres, Bosnia. Perennial to 6 dm. high; leaves simple.

251328. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**

From Tanganyika. Seeds presented by Arusha Limited, Arusha. Received September 23, 1958.

'Haricot 373'. Susceptible to rust.

251329 to 251331.

From Jordan and Israel. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received September 24, 1958.

251329. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

Col. No. K1107. Wadi Yabis Sub-station, 25 km. north of Deir Allah Station, Jordan.

251330 and 251331. VICIA FABA L. Fabaceae. **Broadbean.**

Jerusalem bazaar, Israel.

251330. Col. No. K1117. Seeds large.

251331. Col. No. K1118. Seeds small.

251332 to 251363.

From Japan. Seeds presented by the National Institute of Genetics, Misima, Sizuoka-ken. Received Sept. 23, 1958.

Localities given are former sources of material.

251332. ORYZA GRANULATA Nees & Arn. Poaceae. **Rice.**

W0004. Waterfall, Coimbatore, India.

251333 and 251334. ORYZA OFFICINALIS Wall. **Rice.**

251333. W0002. Bangkok, Thailand.

251334. W0006. Rambukkana, Ceylon.

251335 to 251340. ORYZA PERENNIS Moench **Rice.**

251335. W0108. Cuttack, Orissa, India.

251336. W0120. Cuttack, Orissa, India.

251337. W0121. Cuttack, Orissa, India.

251338. W0126. Ondava, Gunpur, India.

251339. W0128. Budina, Gunpur, India.

251340. W0149. Raipur, India.

251341. ORYZA RIDLEYI Hook. f. **Rice.**

W0001. Nonburi, Bangkok, Thailand.

251342 to 251360. ORYZA SATIVA L. **Rice.**

251342. W0102. Patna, Cuttack, India.

251343. W0103. Patna, Cuttack, India.

251344. W0106. Phulankara, Cuttack, India.

251345. W0107. Bhuvaneswar, Orissa, India.

251346. W0129. Boliguma, Gunpur, India.

251347. W0130. Khilapadar, Gunpur, India.

251348. W0133. Bicavole, Samalkot, India.

251349. W0134. Kasavaram, Samalkot, India.

251350. W0135. Kasavaram, Samalkot, India.

251351. W0136. Kadium, Samalkot, India.

251352. W0137. Kadium, Samalkot, India.

251353. W0138. Trichur, Kerala, India.

251354. W0139. Trichur, Kerala, India.

251355. W0141. Trichur, Kerala, India.

251356. W0145. Bangkok, Thailand.

251357. W0146. Bangkok, Thailand.

251358. W0150. Cultivated. Raipur, India.

251359. W0151. Segregatin. Raipur, India.

251360. W0154. Tao-yuan, Formosa.

251361. ORYZA sp.

W0122. Cuttack, Orissa, India.

251362. ORYZA sp.

W0123. Cuttack, Orissa, India.

251363. ORYZA sp.

W0125. Naguru, Gunpur, India.

251364. SOLANUM TUBEROSUM L. Solanaceae. **Potato.**

From Costa Rica. Tubers presented by the Instituto Inter-Americano de Ciencias Agricolas, San Jose. Received Sept. 24, 1958.

'Morada Blanca'. From Chicua. Elevation 9,000 feet. Grown in Costa Rica for 40 years. Resistance to leaf roll and other viruses.

251365 to 251368.

From Mexico. Seeds collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Diivsion, Beltsville, Md. Received Sept. 24, 1958.

251365 to 251367. THEOBROMA CACAO L. Sterculiaceae. **Cacao.**

251365. Col. No. 84. Comalcalco, Tabasco. Seeds pure white.

251366. Col. No. 85. Comalcalco, Tabasco. Seeds gray outside white within.

251367. Col. No. 86. Comalcalco, Tabasco. Seeds very pale, almost white.

251368. THEOBROMA PENTAGONA Bern.

Col. No. 78. 'Cacao Lagarto'. Finca la Rioja, Cacahuatan, Chiapas. Open-pollinated.

251369 to 251374. PRUNUS ARMENIACA L. Amygdalaceae. **Apricot.**

From France. Scions presented by the Societe Cooperative de Recherches et d'Experimentations Agricoles, Perpignan. Received Sept. 24, 1958.

251369. 'Blanc Rose'.

251370. 'Bulida'.

251371. 'Commun'.

251372. 'Hatif Colamer'.

251373. 'Musque de Provence'.

251374. 'Rouge de Roussillon'.

251375 to 251377. GOSSYPIUM (hybrids). Malvaceae. **Cotton.**

From Peru. Seeds presented by Anderson, Clayton and Company, Lima. Received Sept. 25, 1958.

251375. 'Pima Antiguo'.

251376. 'Pima BP'.

251377. 'Pima Direx'.

251378 to 251414.

From Afghanistan and Iran. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 25, 1958. From Iran unless otherwise noted.

251378 and 251379. EREMOPYRUM ORIENTALE (L.) Roem. & Schult. Poaceae.

251378. Col. No. K750. Four miles south of Marja, Afghanistan. Plants to six inches high.

251379. Col. No. K1552. Sixty miles east of Tabriz, road to Ardebil, via Sarab. Plants to eight inches high.

251380. ALOPECURUS ARUNDINACEUS Poir. Poaceae. **Foxtail.**

Col. No. K1620. Mount Savalan slope, 15 miles south of Lari.

251381. BROMUS SYRIACUS Boiss. & Bal. Poaceae.

Col. No. K1619. Mount Savalan slope, 14 miles south of Lari.

251382. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

Col. No. K1650. North boundary Golmacon. Plant to 24 inches high.

251383. FESTUCA ARUNDINACEA Schreb. Poaceae. **Tall fescue.**

Col. No. K1522. Thirty-four miles west of Tabriz.

251384 and 251385. FESTUCA OVINA L. **Sheep fescue.**

251384. Col. No. K1627. Hot springs north side of Mount Savalan, east of Tabriz. Plant to 15 inches high; leaves fine, abundant at base.

251385. Col. No. K1629. Hot springs north side of Mount Savalan, east of Tabriz.

251386. FESTUCA sp.

Col. No. K1614. Mount Savalan slope. Fourteen miles south of Lari.

251387. ELYMUS CRINITUS Schreb. Poaceae.

Col. No. K1515. Thirty miles northwest of Tabriz. Plant to 10 inches high.

251388 and 251389. PANICUM MILIACEUM L. Poaceae. **Proso millet.**

251388. Col No. K1570. Ardebil bazaar.

251389. Col. No. K1605. Forty-four miles south of Moghan. Plants to three feet high.

251390. PHALARIS CANARIENSIS L. Poaceae. **Canarygrass.**

Col. No. K1544. Tabriz bazaar.

251391. PHLEUM sp. Poaceae.

Col. No. K1585. Twenty-five miles northwest of Ardebil.

251392 and 251393. POA BULBOSA L. Poaceae. **Bulbous bluegrass.**

Hot springs north side of Mount Savalan, east of Tabriz.

251392. Col. No. K1626. Plant to 12 inches high.

251393. Col. No. K1630.

251394. POA PRATENSIS L. **Kentucky bluegrass.**

Col. No. K1622. Mount Savalan slope. Fifteen miles south of Lari. Plants to 24 inches high.

251395. SETARIA ITALICA (L.) Beauv. Poaceae. **Foxtail millet.**

Col. No. K1606. Forty-four miles south of Moghan. Plants to three feet high.

251396. TRIFOLIUM RESUPINATUM L. Fabaceae. **Persian clover.**

Col. No. K1546. 'Shabdar'. Tabriz bazaar.

251397. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

Col. No. K1576. Ardebil bazaar.

251398. CARTHAMUS (hybrid). Asteraceae.

Col. No. K1439. Southeast of Isfahan. Probably hybrid; strongly spined; flowers yellow.

251399. HIBISCUS sp. Malvaceae.

Col. No. K1365. Experiment Farm, Agriculture Department, Isfahan.

251400. LOTUS ANGUSTISSIMUS L. Fabaceae.

Col. No. K1687. Eight miles west of Meshed. Foliage green; flowers yellow.

251401. MEDICAGO LUPULINA L. Fabaceae. **Black medic.**

Col. No. K1690. Eight miles west of Meshed.

251402. MEDICAGO SATIVA L. **Alfalfa.**

Col. No. K1444. 'Yonjeh'. Isfahan bazaar.

251403 to 251406. PANICUM MILIACEUM L. Poaceae. **Proso millet.**

'Arzan'. Isfahan bazaar.

251403. Col. No. K1392. Grade 1.

251404. Col. No. K1393. Grade 2.

251405. Col. No. K1394.

251406. Col. No. K1447.

251407. POA TRIVIALIS L. Poaceae. **Roughstalk bluegrass.**

Col. No. K1686. West of Meshed. Plant to 24 inches high.

251408. TRIFOLIUM FRAGIFERUM L. Fabaceae. **Strawberry clover.**

Col. No. K1681. One mile west of Meshed.

251409 to 251411. TRIFOLIUM RESUPINATUM L. **Persian clover.**

251409. Col. No. K1435. Near the Zayandeh River six miles southeast of Isfahan.

251410. Col. No. K1445. 'Yakchin Shabdar'. Isfahan bazaar.

251411. Col. No. K1446. 'Haftchin Shabdar'. Isfahan bazaar.

251412. TRIGONELLA NOEANA Boiss. Fabaceae.

Col. No. K1415. 'Yonjeh'. Isfahan bazaar.

251413. VICIA ERVILIA (L.) Willd. Fabaceae. **Bittervetch.**

Col. No. K1451. 'Sangak'. Isfahan bazaar.

251414. VICIA SATIVA L. **Common vetch.**

Col. No. K1423. 'Gargru'. Isfahan bazaar.

251415 to 251433.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 26, 1958.

251415. ARRHENATHERUM ELATIUS (L.) Presl Poaceae. **Tall oatgrass.**

Col. No. 17403. Thirty km. east of Rijeka. Elevation 1,000 meters. Slender perennial with leafy culms to 1.5 meters high.

251416. BRACHYPODIUM sp. Poaceae.

Col. No. 17399. Rocky slope, Stubiza, between Zagreb and Rijeka, Croatia. Elevation 500 meters. Leafy perennial.

251417. BRACHYPODIUM sp.

Col. No. 17404. Rocky bank, 30 km. east of Rijeka. Elevation 1,000 meters. Leafy perennial.

251418. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

Col. No. 17406. Thirty km. east of Rijeka. Elevation 1,000 meters.

251419. CALAMAGROSTIS ARUNDINACEA (L.) Roth. Poaceae. **Reedgrass.**

Col. No. 17410. Thirty km. east of Rijeka. Elevation 1,000 meters. Handsome bunchgrass; leaves to five dm. long.

251420. FESTUCA ELATIOR L. Poaceae. **Meadow fescue.**

Col. No. 17405. Thirty km. east of Rijeka. Elevation 1,000 meters.

251421. FESTUCA sp.

Col. No. 17413. Twenty-four km. east of Rijeka. Elevation 1,000 meters. Leaves narrow, long.

251422. LOTUS CORNICULATUS var. CILIATUS (Tenore) C. Koch Fabaceae. **Trefoil.**

Col. No. 17397. Zagreb road, 40 km. north of Belgrade, Serbia. Leafy perennial.

251423. LOTUS CORNICULATUS L. **Trefoil.**

Col. No. 17400. Poor limestone soil, Stubiza, between Zagreb and Rijeka, Croatia. Elevation 500 meters. Plant depauperate.

251424. LOTUS CORNICULATUS VAR. CILIATUS (Tenore) C. Koch. **Trefoil.**

Col. No. 17412. Twenty-four km. east of Rijeka. Elevation 1,000 meters. Plant depauperate; seed pods large.

251425. MELILOTUS OFFICINALIS (L.) Lam. Fabaceae. **Yellow sweetclover.**

Col. No. 17411. Thirty km. east of Rijeka. Elevation 1,000 meters.

251426. PHALARIS ARUNDINACEA L. Poaceae. **Reed canarygrass.**

Col. No. 17396. Zagreb road, 40 km. west of Belgrade.

251427 and 251428. PHLEUM PRATENSE L. Poaceae. **Timothy.**

251427. Col. No. 17401. Eighty km. east of Rijeka, Croatia. Elevation 540 meters.

251428. Col. No. 17408. Thirty km. east of Rijeka. Elevation 1,000 meters.

251429. POA PRATENSIS L. Poaceae. **Kentucky bluegrass.**

Col. No. 17409. Thirty km. east of Rijeka. Elevation 1,000 meters. Plant stoloniferous.

251430. SORGHUM VIRGATUM (Hack.) Stapf Poaceae. **Tunisgrass.**

Col. No. 17398. Forty km. west of Beograd, Zagreb road, Serbia. Apparently spontaneous.

251431. TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

Col. No. 17415. Thirty-two km. north of Rijeka. Elevation 500 meters.

251432. TRIFOLIUM REPENS L. **Whiteclover.**

Col. No. 17402. Eighty km. east of Rijeka, Croatia. Elevation 520 meters.

251433. TRIFOLIUM OCHROLEUCON Huds.

Col. No. 17414. Thirty-two km. north of Rijeka. Perennial with leafy rosette.

251434. PHALARIS × DAVIESII S. T. Blake Poaceae. **Canarygrass.**

From Australia. Seed presented by the Commonwealth Scientific and Industrial Research Organization, Brisbane. Received Sept. 29, 1958.

Fertile allopolyploids with 56 and 42 somatic chromosomes respectively were produced from the sterile F_1 hybrid with colchicine. Spontaneous allopolyploidy occurred in *P. tuberosa* × *P. minor*. A quick growing perennial grass, adapted to short growing seasons, with well marked morphological characters. Volunteers freely and behaves like a naturally occurring species when cultivated.

Full data is in the Proceedings of the Royal Society of Queensland 67:27–28, 1956.

251435 to 251442. CHRYSANTHEMUM CINERARIAEFOLIUM (Trevir.) Vis. Asteraceae. **Pyrethrum.**

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 29, 1958.

Dubrovnik Argiculture Station, Dalmatia. Former sources indicated.

251435. Col. No. 17340. C51 from Kenya, Agriculture Experimental Station, Molo, Kenya. A high toxicity selection, 2.2 to 2.5% pyrethrums.

251436. Col. No. 17341. K38 from Kenya.

251437. Col. No. 17342. SN, a variety reported to have low toxicity.

251438. Col. No. 17343. D6, a variety reported to have low toxicity.

251439. Col. No. 17344. K1, selection from Kenya × local strain; toxicity good.

251440. Col. No. 17345. K2, selection from Kenya × local strain.

251441. Col. No. 17346. K3, selection from Kenya × local strain; toxicity reported good.

251442. Col. No. 17347. C43, selection from Kenya × local strain.

251443 to 251484.

From Turkey. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 29, 1958.

251443. AGROPYRON ELONGATUM (Host) Beauv. Poaceae.

Col. No. K1942. Nineteen miles west of Istanbul. Plant to 36 inches high.

251444. BOTHRIOCHLOA ISCHAEMUM (L.) Keng Poaceae. **Kings' Ranch bluestem.**

Col. No. K1938. Nineteen miles west of Istanbul. Plants to 18 inches high.

251445. BRACHYPODIUM sp. Poaceae.

Col. No. K1941. Nineteen miles west of Istanbul. Plant to 20 inches high.

251446. CANNABIS SATIVA L. Moraceae. **Hemp.**

Col. No. K1915. Istanbul bazaar.

251447 to 251453. CARTHAMUS DENTATUS Vahl Asteraceae.

251447. Col. No. K1898. Ten miles west of Bursa. Plant to 18 inches high.

251448. Col. No. K1906. Five miles south of Balikiser. Plant to 36 inches high.

251449. Col. No. K1909. Ten miles south of Balikiser.

251450. Col. No. K1911. Five miles southwest of Sindirgi.

251451. Col. No. K1912. Fifteen miles southwest of Sindirgi.

251452. Col. No. K1935. Sixteen miles west of Istanbul.

251453. Col. No. K1945. Thirty-five miles west of Istanbul.

251454. CARTHAMUS GLAUCUS Bieb. Asteraceae.

Col. No. K1900. Four miles west of Yemmenderes. Plant to 30 inches high.

251455 to 251461. CARTHAMUS LANATUS L.

251455. Col. No. K1897. Ten miles west of Bursa. Plant to three feet high; flowers lemon-yellow.

251456. Col. No. K1904. Eight miles southwest of Mustafa Kemal Pasha.

251457. Col. No. K1910. Ten miles south of Balikesir.

251458. Col. No. K1922. Western outskirts of Istanbul. Plant to 36 inches high.

251459. Col. No. K1923. Western outskirts of Istanbul.

251460. Col. No. K1934. Sixteen miles west of Istanbul.

251461. Col. No. K1936. Seventeen miles west of Istanbul.

Plants to 18 inches high.

251462. CARTHAMUS TINCTORIUS L. **Safflower.**

Col. No. K1907. Twelve miles south of Balikesir. Plant to 24 inches high; flowers red, orange and yellow.

251463. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

Col. No. K1940. Nineteen miles west of Istanbul. Plants to 14 inches high.

251464 to 251466. HELIANTHUS ANNUS L. Asteraceae. **Common sunflower.**

251464. Col. No. K1899. Eighteen miles west of Bursa. Plants to five feet high; heads to 12 inches in diameter.

251465. Col. No. K1918. Istanbul bazaar.

251466. Col. No. K1944. Sixteen miles west of Istanbul. Plants to six feet high; heads to 10 inches in diameter.

251467 and 251468. HORDEUM VULGARE L. Poaceae. **Common barley.**

251467. Col. No. K1919. Istanbul bazaar.

251468. Col. No. K1920. Istanbul bazaar.

251469 to 251472. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

251469. Col. No. K1902. Six miles southwest of Mustafa Kemal Pasha.

251470. Col. No. K1908. Ten miles south of Balikesir. Plant to 15 inches high.

251471. Col. No. K1916. Istanbul bazaar.

251472. Col. No. K1943. Sixteen miles west of Istanbul. Plants to 15 inches high.

251473. LOLIUM PERENNE L. Poaceae. **Perennial ryegrass.**

Col. No. K1933. Fifteen miles west of Istanbul.

251474. MEDICAGO ORBICULARIS (L.) All. Fabaceae. **Buttonclover.**

Col. No. K1928. Six miles west of Istanbul.

251475. PHALARIS CANARIENSIS L. Poaceae. **Canarygrass.**

Col. No. K1914. Istanbul bazaar.

251476. PHLEUM SUBULATUM (Savi) Aschers. & Graebn. Poaceae. **Timothy.**

Col. No. K1932. Fifteen miles west of Istanbul. Plants to 12 inches high.

251477 and 251478. HAYNALDIA VILLOSA (L.) Schur. Poaceae.

251477. Col. No. K1921. Western outskirts of Istanbul. Plants to 30 inches high.

251478. Col. No. K1931. Fifteen miles west of Istanbul. Plants to 24 inches high.

251479. TRIFOLIUM ANGUSTIFOLIUM L. Fabaceae. **Clover.**

Col. No. K1924. Six miles west of Istanbul. Plants to eight inches high.

251480. TRIFOLIUM CAMPESTRE Schreb. **Large hop clover.**

Col. No. K1925. Six miles west of Istanbul. Plant to eight inches high.

251481 and 251482. TRIFOLIUM FRAGIFERUM L. **Strawberry clover.**

251481. Col. No. K1930. Six miles west of Istanbul. Plant to eight inches high.

251482. Col. No. K1947. Thirty-seven miles west of Istanbul.

251483. TRIFOLIUM LAPPACEUM L. **Lappa clover.**

Col. No. K1929. Six miles west of Istanbul. Plants to eight inches high.

251484. TRIFOLIUM BIVONAE Guss.

Col. No. K1926. Six miles west of Istanbul. Plants to six inches high.

251485 to 251488.

From Great Britain. Plants presented by the Department of Botany, Manchester University, Manchester, England. Received Sept. 29, 1958.

251485. FRAGARIA MOSCHATA Duchesne Rosaceae. **Hautbois strawberry.**

Hexaploid.

251486. FRAGARIA ORIENTALIS A. Losinsk.

Tetraploid.

251487. FRAGARIA VESCA L. **European strawberry.**

Diploid. 'Belle de Meaux'.

251488. FRAGARIA (hybrid). **Strawberry.**

'Utsumi Zaral'.

251489 to 251523.

From Iran and Turkey. Seeds collected by P. F. Knowles, Collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Sept. 30, 1958.

Collected July 12, 1958, in Iran unless otherwise noted.

251489 to 251493. ERUCA SATIVA Mill. Brassicaceae. **Rocket-salad.**

251489 to 251492. Experimental Farm, Agriculture Department, Isfahan.

251489. Col. No. K1361. 'Kaykoj' or 'Mandab'.

251490. Col. No. K1362.

251491. Col. No. K1363.

251492. Col. No. K1364.

251493. Col. No. K1376. 'Kaykoj' or Mandab'.

251494. TRIFOLIUM RESUPINATUM L. Fabaceae. **Persian clover.**

Col. No. K1382. 'Shabdar'.

251495 to 251499. ERUCA SATIVA Mill. Brassicaceae. **Rocket-salad.**

251495. Col. No. K1383. 'Shabdar'.

251496. Col. No. K1459. 'Kaykoj'.

251497. Col. No. K1460. 'Kaykoj'.

251498. Col. No. K1461. 'Kaykoj'.

251499. Col. No. K1462. 'Kaykoj'.

251500. HIBISCUS ESCULENTUS L. Malvaceae. **Okra.**

Col. No. K1421. 'Bamyeh'. Isfahan bazaar.

251501. LACTUCA SATIVA L. Cichoriaceae. **Garden lettuce.**

Col. No. K1420. 'Kahu'. Isfahan bazaar.

251502. PETROSELINUM CRISPUM (Mill.) Nym. Apiaceae. **Parsley.**

Col. No. K1402. 'Jaffary'. Isfahan bazaar.

251503. PORTULACA OLERACEA L. Portulacaceae. **Purslane.**

Col. No. K1426. 'Khorfe'. Isfahan bazaar. Seed ground, roasted and administered with sugar for stomach ailments.

251504 and 251505. RAPHANUS SATIVUS L. Brassicaceae. **Radish.**

251504. Col. No. K1399. 'Torobche'. Isfahan bazaar.

251505. Col. No. K1400. 'Torob'. Isfahan bazaar.

251506. SOLANUM MELONGENA L. Solanaceae. **Eggplant.**

Col. No. K1409. 'Badanjan'. Isfahan bazaar.

251507. SPINACIA OLERACEA L. Chenopodiaceae. **Common spinach.**

Col. No. K1397. 'Esfanej'. Isfahan bazaar.

251508 and 251509. ALLIUM CEPA L. Liliaceae. **Onion.**

Isfahan bazaar.

251508. Col. No. K1404.

251509. Col. No. K1417.

251510. ALLIUM sp.

Col. No. K1903. Thirteen km. southwest of Mustafa Kemal Pasha, Turkey.

251511 and 251512. BETA VULGARIS L. Chenopodiaceae. **Sugar beet.**

Isfasan bazaar.

251511. Col. No. K1405. "Chogundar'.

251512. Col. No. K1453. 'Shogondak'.

251513. BRASSICA RAPA L. Brassicaceae. **Turnip.**

Col. No. K1450. 'Shaljam'. Isfahan bazaar.

251514. CICER ARIETINUM L. Fabaceae. **Chickpea.**

Col. No. K1448. 'Nokhodsiah'. Isfahan bazaar.

251515. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

Col. No. K1424. 'Tukhm-Handayand'. Isfahan bazaar.

251516 to 251518. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

Isfahan bazaar.

251516. Col. No. K1422. 'Garmak'.

251517. Col. No. K1454. 'Semsury'.

251518. Col. No. K1418. 'Khiar Chanber'.

251519 and 251520. CUCUMIS SATIVUS L. **Cucumber.**

251519. Col. No. K1419. 'Khiar'.

251520. Col. No. K1442. 'Khiar'.

251521. CUCUMIS MELO L. **Muskmelon.**

Col. No. K1449. 'Khair Chamber'.

251522. DAUCUS CAROTA L. Apiaceae. **Carrot.**

Col. No. K1416. 'Havij' or 'Zardak'. Isfahan bazaar.

251523. DESCURAINIA SOPHIA (L.) Prantl Brassicaceae.

Col. No. K1411. 'Khakshir'. Isfahan bazaar.

251524 to 251533.

From Yugoslavia. Seeds presented by the Ljubljana University, Ljubljana. Received Oct. 1, 1958.

251524. AGROSTIS ALBA L. Poaceae. **Redtop.**

VIII–10.

251525. ALOPECURUS PRATENSIS L. Poaceae. **Meadow foxtail.**

VI–16.

251526. ARRHENATHERUM ELATIUS (L.) Presl Poaceae. **Tall oatgrass.**

VI–20.

251527. BROMUS INERMIS Leyss. Poaceae. **Smooth brome.**

VIII–5.

251528. DACTYLIS GLOMERATA L. Poaceae. **Orchard grass.**

VI–18.

251529. LOTUS PEDUNCULATUS Cav. Fabaceae. **Big trefoil.**

12.VIII.

251530. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

VIII–7.

251531. PHALARIS ARUNDINACEA L. Poaceae. **Reed canarygrass.**

19.VII.

251532. PHLEUM PRATENSE L. Poaceae. **Timothy.**

VIII–10.

251533. TRISETUM FLAVESCENS (L.) Beauv. Poaceae.

VI–16.

251534. CAMELLIA GRANTHAMIANA Sealy. Theaceae.

From Hong Kong. Seeds presented by the Gardens Division, Urban Services Department, Victoria. Numbered Oct. 1, 1958.

251535 to 251553.

From Yugoslavia. Seeds presented by the Agricultural Research Institute, Novi Sad. Received Oct. 1, 1958.

251535 and 251536. AVENA SATIVA L. Poaceae. **Common oats.**

251535. No. 2. Winter type.

251536. No. 6. Winter type.

251537 and 251538. HORDEUM VULGARE L. Poaceae. **Common barley.**

251537. No. 7; Four row 2551. Selected from natural population in the Soviet Union.

251538. No. 8; Two row 1. Selected from natural population in the Soviet Union.

251539. SECALE CEREALE L. Poaceae. **Rye.**
No. 9. Winter type.

251540 to 251553. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

251540. No. 1. 9083.

251541. No. 2. 905/8. ('Bacvanka' × 'Krizevacka 65') × (Krizevacka 10' × 'Krizevacka 9'.) Suitable for the plains of Yugoslavia.

251542. No. 3. 'Bankut 1205'. ('Marquis' × 'Tisa'.) 'Marquis' was selected for winter conditions in Hungary before the cross was made. Ears white, bearded; grain red. Grown on the Pannonian plains, Yugoslavia.

251543. No. 4. 'Red Wheat of Ruma'. Selected from population of 'Banat'. Ears red, bearded; grain red. Grown in the hilly part of Yugoslavia.

251544. No. 5. 'Krushevatz 22'. Selected from population of 'Banat'. Ears white, bearded, without hairs; grain red. Grown in the hilly parts of Yugoslavia.

251545. No. 6. U–1.
251546. No. 1993.
251547. No. 5055.
251548. No. 5200.
251549. No. 5339.
251550. No. 5738.
251551. No. 2827.
251552. No. 5829.
251553. No. 5830.

251554 to 251565.

From Yugoslavia. Seeds presented by the Agrariacoop Seed House, Zagreb. Received Oct. 1, 1958.

251554. CANNABIS SATIVA L. Moraceae. **Hemp.**

251555 and 251556. LOLIUM MULTIFLORUM Lam. Poaceae. **Italian ryegrass.**

251555. No. 1.

251556. No. 19365.

251557. LOLIUM PERENNE L. **Perennial ryegrass.**

No. 19722.

251558. LOTUS CORNICULATUS L. Fabaceae. **Birdsfoot trefoil.**

No. 19327.

251559. LUPINUS ALBUS L. Fabaceae. **White lupine.**

251560 and 251561. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

251560. No. 1.

251561. No. 19702. Mediterranean type.

251562 and 251563. TRIFOLIUM INCARNATUM L. Fabaceae. **Crimson clover.**

251562. No. 19367.

251563. Commercial.

251564 and 251565. TRIFOLIUM PRATENSE L. **Red clover.**

251564. No. 19660.

251565. Commercial.

251566. HEVEA BRASILIENSIS (A. Juss.) Muell. Euphorbiaceae.

Para rubber tree.

From the British West Indies. Seeds collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 2, 1958.

Col. No. 101. Botanical Park, Port of Spain, Trinidad. From one of the original Wickham trees.

251567. MALUS sp. Malaceae.

From South Australia. Scions presented by Ken Caldicott, Lenswood. Received Oct. 2, 1958.

A sport of 'Statesman'. Tree strong grower when young; fruits bright red without stripes.

251568 to 251600.

From Yugoslavia. Seeds presented by the Agricultural Institute, Banja Luka, Bosnia. Received Oct. 2, 1958.

251568 to 251570. AGROSTIS ALBA L. Poaceae. **Redtop.**

251568. No. 1. P.P.

251569. No. 2. R–4 But.

251570. No. 3. R–47.

251571 to 251574. ARRHENATHERUM ELATIUS (L.) Presl. Poaceae. **Tall oatgrass.**

251571. No. 4. R–II.

251572. No. 5. R–IV.

251573. No. 6. R–3/49.

251574. No. 7. R–14/49.

251575 to 251582. AVENA SATIVA L. Poaceae. **Common oats.**

251575 to 251578. Winter types.

251575. 'Banja Luka 20'.

251576. 'Belje–210'.

251577. M–311.

251578. R–129.

251579 to 251582. Spring types.

251579. 'Domaca Zob'. (Slatine).

251580. 'Von Lochow'.

251581. 286.

251582. 555.

251583 and 251584. FESTUCA ARUNDINACEA Schreb. Poaceae. **Tall fescue.**

251583. No. 32.

251584. No. 33.

251585 and 251586. GLYCINE MAX (L.) Merrill Fabaceae. **Soybean.**

251585. 'Dobrudza'.

251586. 'Zagrebacka Rana'.

251587 to 251591. HOREDUM VULGARE L. Poaceae. **Common barley.**

Winter types.

251587. 'Banja Luka 10'.

251588. 'Belje–129'.

251589. 'Belje–151'.

251590. 'Novi Sad–4082'.

251591. 'Novi Sad–4084'.

251592 to 251596. PHLEUM PRATENSE L. Poaceae. **Timothy.**

251592. No. 40. R–III/11.

251593. No. 42. R–3/4.

251594. No. 43. R–3/47.

251595. No. 44. R–3/47c.

251596. No. 45. R–11.

251597. POA PRATENSIS L. Poaceae. **Kentucky bluegrass.**

No. 46. R50/48.

251598. TRIFOLIUM PRATENSE L. Fabaceae. **Red clover.**

No. 78.

251599 and 251600. TRISETUM FLAVESCENS (L.) Beauv. Poaceae.

251599. No. 8. R–5/47.

251600. No. 9. R–11/49.

251601. COLEUS BLUMEI var. VERSCHAFFELTII Lem. Menthaceae.

From Great Britain. Plants purchased from Pedley & Sons, Kirkham, Preston, Lancashire, England. Received August, 1958. Numbered January, 1959.

'Scarlet Ribbon'. Leaves long, pointed, red center surrounded with brown, edged dark green.

251602. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. **Sweetpotato.**

From Puerto Rico. Roots presented by the Agricultural Experiment Station, Seed Farms Division, Rio Piedras. Received Oct. 2, 1958.

'Blanquita'.

251603 to 251612.

From India. Seeds presented by the Division of Botany, Indian Agricultural Research Institute, New Delhi. Received Oct. 3, 1958.

251603. MOMORDICA BALSAMINA L. Cucurbitaceae. **Balsam-apple.**

'I.W. 841'.

251604. MOMORDICA CHARANTIA L. **Balsam-pear.**
'I.C. 1291'.

251605 to 251612. TRIFOLIUM ALEXANDRINUM L. Fabaceae. **Berseem clover.**

251605. C 9.
251606. C 10.
251607. C 11.
251608. E. C. 1009.
251609. E. C. 2366.
251610. E. C. 4910.
251611. I. C. 1714.
251612. Local.

251613 to 251619.

From Yugoslavia. Seeds presented by Seed Enterprise, Belgrade. Received Oct. 3, 1958.

251613. BRASSICA HIRTA Moench Brassicaceae. **White mustard.**
No. 1170.

251614. BRASSICA NAPUS L. **Rape.**
No. 1200.

251615. PRUNUS AVIUM L. Amygdalaceae. **Sweet cherry.**
No. 1060.

251616. PRUNUS CERASIFERA Ehrh. **Myrobalan plum.**
No. 1478.

251617. PRUNUS MAHALEB L. **Mahaleb cherry.**
No. 1470.

251618. PRUNUS PERSICA (L.) Batsch **Peach.**
No. 1450. Wild.

251619. PYRUS COMMUNIS L. Malaceae. **Common pear.**
No. 1456.

251620 and 251621. PHASEOLUS VULGARIS L. Fabaceae. Common bean.

From Southern Rhodesia. Seeds presented by the United States Consulate General, Salisbury. Received Oct. 3, 1958.

251620. Bush bean, resistant to halo blight. ('Full Measure' × 'U.S. No. 5 Refugee') × ('Black Wonder' × unknown). Seeds brown.

251621. Bush bean; seed coat color recessive. Resistant to halo blight.

251622 to 251626.

From Yugoslavia. Seeds presented by the Agrariacoop Seed House, Zagreb. Received Oct. 3, 1958.

251622. CAPSICUM FRUTESCENS L. Solanaceae. **Redpepper.**
'Kolinkova'.

251623. LACTUCA SATIVA L. Cichoriaceae. **Garden lettuce.**
'May Queen'.

251624. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**
'Soxa'.

251625. PISUM SATIVUM L. Fabaceae. **Garden pea.**
'Wonder of America'.

251626. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

251627 to 251644.

From Ethiopia. Seeds collected and presented by H. F. Murphy, Oklahoma Agricultural Experiment Station, Stillwater, Oklahoma. Received Oct. 3, 1958.

251627. ELEUSINE CORACANA (L.) Gaertn. Poaceae. **Ragi.**

No. 7.

251628. HORDEUM sp. Poaceae.

No. 5.

251629. INDIGOFERA sp. Fabaceae.

No. 6.

251630. LOTUS CORNICULATUS var. CILIATUS (Tenore) C. Koch Fabaceae. **Trefoil.**

No. 10.

251631. MEDICAGO ARABICA (L.) All. Fabaceae. **Spotted burclover.**

No. 3.

251632 and 251633. MEDICAGO POLYMORPHA var. VULGARIS (Benth.) Shinners **California burclover.**

251632. No. 1.

251633. No. 2.

251634. MELILOTUS SUAVEOLENS Ladeb. Fabaceae. **Sweetclover.**

No. 17.

251635. NIGELLA SATIVA L. Ranunculaceae. **Black cumin.**

No. 9.

251636. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**

No. 11.

251637 and 251638. SORGHUM BICOLOR (L.) Moench. Poaceae.

251637. No. 13.

251638. No 14. Eth. Sel. No. 3.

251639. TRIFOLIUM HYBRIDUM L. Fabaceae. **Alsike clover**

No. 18.

251640. TRIGONELLA FOENUM-GRAECUM L. Fabaceae. **Fenugreek.**

No. 4.

251641 and 251642. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

251641. No. 15.

251642. No. 16.

251643. VICIA SATIVA L. Fabaceae. **Common vetch.**

No. 12.

251644. VIGNA SINENSIS (Torner) Savi. Fabaceae. **Common cowpea.**

251645 to 251657. ZEA MAYS L. Poaceae. Corn.

From Yugoslavia. Seeds presented by the Institute for Improvement and Production of Plants, Zemun Polje. Received Oct. 6, 1958.

251645. 'Vukovar Dent'. Osijek.

251646. White corn from the Moravia Valley.

251647. 'Bankuty Bajaha'.

251648. 'Belje Golden Dent'. Danube Valley.

251649. K.S.R.Z.

251650. 'Shid Dent'.

251651. 'White', or 'Savinja'.

251652. 'Novi Sad White Dent'.

251653. 'Maximir Early'.

251654. 'Timok Hard Yellow', or 'Zajecar'.

251655. 'Istra'. Wide grains, 8 row corn (glassy form).

251656. 'Krizevci Croatcorn'.

251657. 'Milicevic Dent'.

251658 and 251659. FRAGARIA ORIENTALIS A. LOS. Rosaceae.

From Germany. Plants presented by the Max-Planck Institute, Vogelsang, Cologne. Received Oct. 6, 1958.

251658. 49, F/281. Female.

251659. 5251/21. Male.

251660 to 251679.

From Yugoslavia. Seeds presented by Seed Enterprise, Belgrade. Received Oct. 7, 1958.

251660. ALOPECURUS PRATENSIS L. Poaceae. **Meadow foxtail.**
No. 1057.

251661. ARRHENATHERUM ELATIUS (L.) Presl Poaceae. **Tall oatgrass.**
No. 1055.

251662. CYNOSURUS CRISTATUS L. Poaceae. **Crested dogtail.**
No. 1070.

251663. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**
No. 1058.

251664. FESTUCA ELATIOR L. Poaceae. **Meadow fescue.**
No. 1067.

251665. FESTUCA RUBRA L. **Red fescue.**
No. 1069a.

251666. LINUM USITATISSIMUM L. Linaceae. **Common flax.**
No. 1160.

251667. LOLIUM PERENNE L. Poaceae. **Perennial ryegrass.**
No. 1053.

251668. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**
No. 1004.

251669. ONOBRYCHIS VICIAEFOLIA Scop. Fabaceae. **Sainfoin.**
No. 1010.

251670. PHLEUM PRATENSE L. Poaceae. **Timothy.**
No. 1050.

251671. POA PRATENSIS L. Poaceae. **Kentucky bluegrass.**
No. 1059.

251672. SORGHUM TECHNICUM Batt. & Trab. Poaceae. **Broomcorn.**
No. 1035.

251673. TRIFOLIUM HYBRIDUM L. Fabaceae. **Alsike clover.**
No. 1021.

251674. TRIFOLIUM PRATENSE L. **Red clover.**
No. 1024.

251675. TRIFOLIUM REPENS L. **Whiteclover.**

No. 1022.

251676. VICIA PANNONICA Crantz. Fabaceae. **Hungarian vetch.**

Winter type.

251677 and 251678. VICIA SATIVA L. **Common vetch.**

251677. No. 960. Spring type.

251678. No. 961. Winter type.

251679. VICIA VILLOSA Roth. **Hairy vetch.**

No. 962. Russian type.

251680 to 251717.

From the Union of Soviet Socialist Republics. Seeds presented by the Agricultural Institute, Novi Sad, Yugoslavia. Received Oct. 7, 1958.

251680. ARRHENATHERUM ELATIUS (L.) Presl Poaceae. **Tall oatgrass.**

No. 27859. Morshansk. (23.)

251681 and 251682. BROMUS INERMIS Leyss. Poaceae. Smooth brome grass.

251681. No. 25706. Morshansk.

251682. No. 27852. Penzensk.

251683. BROMUS RIPARIUS Rehm.

No. 29819. The Ukraine. Growing wild.

251684. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

No. 22828. Moscow. (222.)

251685 and 251686. FESTUCA ELATIOR L. Poaceae. **Meadow fescue.**

251685. No. 22827. Leningrad. (804.)

251686. No. 25876. Morshansk. (1304.)

251687. FESTUCA RUBRA L. **Red fescue.**

No. 27854. Collected July, 1947.

251688 to 251690. MEDICAGO FALCATA L. Fabaceae **Yellow-flowered alfalfa.**

251688. No. 22056. Wild type.

251689. No. 22382. Maikopskaya.

251690. No. 22506. Near Kuban River.

251691 to 251695. MEDICAGO SATIVA L. **Alfalfa.**

251691. No. 21031. Omsk. (8893.)

251692. No. 20888. Kirovsk, Murmansk.

251693. No. 22503. Slavskoye, Kaliningrad.

251694. No. 23426. Kalmanka.

251695. No. 28910. Dhepropetrovck.

251696. ONOBRYCHIS ARENARIA DC. Fabaceae.

No. 14377. Near the Psel River. A two cut type.

251697 and 251698. ONOBRYCHIS TRANSCAUCASICA Grossh.

251697. No. 9696. Caucasus area. A three cut type.

251698. No. 17394. Alaikalak. A two cut type.

251699 and 251700. PHLEUM PRATENSE L. Poaceae. **Timothy.**

251699. No. 20257. 'Leningrad 204'.

251700. No. 28054. 'Oseshinsk'.

251701. POA PRATENSIS L. Poaceae. **Kentucky bluegrass.**

No. 27874. Ex Denmark.

251702 to 251704. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

251702. No. 818. D.C.C. 23.

251703. No. 899. 'Kuban 55'.

251704. No. 742. 'Kohditersky 2058'. Used in confections.

251705. TRIFOLIUM APERTUM Bobr. Fabaceae.

No. 27313. Plant annual, erect, usually branching close to the ground; leaves hairy on the upper side, superior leaves minutely dentate; stipules elongate, sublinear and acuminate, margins clearly pilose; peduncle appressed after flowering and elongate; petals 1.5–4 cm. long and 0.5–1.5 cm. wide; corolla yellow, tube sparingly pilose; pod one-seeded, slightly curved, 1 4–15 mm. long, coriaceous or membraneous. Flowers in June and fruits in July. Habitat: along edge of woods and in thickets, Caucasus. The wild form resembles *T. alexandrinum*.

251706 and 251717. TRIFOLIUM PRATENSE L. **Red clover.**

251706. No. 21987. From Nosov.

251707. No. 24631. 'Foliosum'. Central U.S.S.R.

251708. No. 24653. 'Foliosum'. Konipsev.

251709. No. 25748. Chuisky, Kazakh.

251710. No. 26047. 'Foliosum'. Siverski.

251711. No. 26774. Gribonovsky.

251712. No. 27610. A two cut type.

251713. No. 27611. 'Foliosum'. Azovka.

251714. No. 27612. Zazer.

251715. No. 27618. Talmagsky.

251716. No. 29504. 'Intervallare'. A two cut type.

251717. No. 30121. Local strain.

251718 and 251719.

From Panama. Seeds collected and presented by I. S. Nelson, Southwestern Louisiana Institute, Lafayette, Louisiana. Received Oct. 7, 1958.

251718. RUBUS sp. Rosaceae.

No. 45. 'Zarzamora'. Boquete, Panama. Elevation 4,000 feet. Fruits red, 1.5 inches long. Thirty-one almost black fruits on sprig from which seeds were taken. Bears throughout year.

251719. RUBUS sp.

No. 48. 'Zarzamora'. Cero Punter, Panama. Elevation 5,000 feet. Semi-trailing, resembling native Louisiana blackberry. Fruits black when ripe.

251720 to 251759.

From Mexico. Tubers collected by J. G. Hawkes, J. P. Hjerting and B. N. Lester, Birmingham University, England, 1958 Plant Collecting Expedition to Mexico and Central America. Received Oct. 7, 1958.

251720. SOLANUM BRACHISTOTRICHUM (Bitt.) Rydb. Solanaceae.

Col. No. 1471. Valuarte, 35 km. from Fresnillo, road to Durango, Zacatecas. Elevation 2,150 meters.

251721 and 251722. SOLANUM BRACHYCARPUM Correll.

251721. Col. No. 1547. Tranquitas, Nevada de Colima, Jalisco. Elevation 3,200 meters. Flowers violet; berries conico-ovoid; tubers large.

251722. Col. No. 1577. San Juan de los Cumbres, Morelia-Mexico City road, Michoacan. Flowers violet; berries ovate-conical.

251723. SOLANUM BULBOCASTANUM Dun.

Col. No. 1565. Cerro Punguato, near Morelia, Michoacan. Elevation 2,300 meters.

251724. SOLANUM CARDIOPHYLLUM Lindl.

Col. No. 1402. San Juan del Rio, Queretaro. Elevation 2,000 meters.

251725. SOLANUM CARDIOPHYLLUM var. EPIRENBERGII (Bitt.) Correll.

Col. No. 1440. Near Dolores Hidalgo, Guanajuato, 40 km. from San Miguel Allende. Elevation 1,850 meters.

251726 to 251730. SOLANUM EHRENBERGII (Bitt.) Rydb.

251726. Col. No. 1458. About 12 km. from Aguas Calientes on the Loreto road. Elevation 1,900 meters.

251727. Col. No. 1459. About 15 km. from Aguas Calientes on the Loreto road. Elevation 1,950 meters.

251728. Col. No. 1462. Eighty km. from Aguas Calientes, Zacatecas road, Zacatecas. Elevation 2,050 meters.

251729. Col. No. 1466. Seven hundred thirty-four km. from Mexico City, Aguas Calientes-Zacatecas road. Elevation 2,200 meters.

251730. Col. No. 1492. Highway 45, 16 km. east of Ecarnacion de Diaz, Lagos de Moreno road, Jalisco. Elevation 2,000 meters.

251731. SOLANUM CARDIOPHYLLUM var. EHRENBERGII (Bitt.) Correll.

Col. No. 1494. Fifteen km. north of Guadalajara, Rio Blanco, Jalisco. Elevation 1,600 meters.

251732 to 251736. SOLANUM MICHOACANUM (Bitt.) Rydb.

251732. Col. No. 1514. Fifty-one km. from Carapan, Uruapan road, Michoacan. Elevation 2,350 meters.

251733. Col. No. 1517. Fifty-one km. from Carapan, Uruapan road, Michoacan. Elevation 2,400 meters.

251734. Col. No. 1522. Granja Villa Imelda, forty-three km. from Carapan, Michoacan. Elevation 2,300 meters.

251735. Col. No. 1525. Two km. south of Carapan, Corup road, Michoacan. Elevation 2,300 meters.

251736. Col. No. 1541. Northeast slope of Nevada de Colima, Los Alpes, Jalisco. Elevation 2,300 meters.

251737 and 251738. SOLANUM MORELLIFORME Bitter & Muench.

251737. Col. No. 1507. Capacuaro, Sierra de los Tarascos, Michoacan. Elevation 2,250 meters.

251738. Col. No. 1510. Capacuaro, Sierra de los Tarascos, Michoacan. Elevation 2,250 meters.

251739 to 251744. SOLANUM PAPITA Rydb.

251739. Col. No. 1473. El Alamo, 13 km. from Durango border, Zacatecas. Elevation 2,350 meters.

251740. Col. No. 1475. Five km. from Durango Otinapa road. Elevation 2,400 meters.

251741. Col. No. 1476. Five km. from Durango Otinapa road. Elevation 2,400 meters.

251742. Col. No. 1482. Near Hacienda Otinapa, Rancho Alamito, Rio Chico, Durango. Elevation 2,300 meters. Flowers pale mauve; fruits small, white-spotted.

251743. Col. No. 1486. Two km. from Otinapa, Otinapa-Durango road. Elevation 2,220 meters.

251744. Col. No. 1488. Fourteen km. from Durango border, Durango-Zacatecas road, Zacatecas. Elevation 2,250 meters. Flowers pale.

251745. SOLANUM POLYADENIUM Greenm.

Col. No. 1567. Near Morelia, Cerro Punguato, Michoacan. Elevation 2,250 meters. Flowers white; berries striped; tubers produced irregularly, in series along the stolons.

251746 to 251749. SOLANUM POLYTRICHON Rydb.

251746. Col. No. 1461. Eighty km. from Aguas Calientes, Zacatecas road, Zacatecas. Elevation 2,050 meters. Flower color varying from white to light violet.

251747. Col. No. 1465. Seven hundred twenty-six km. from Mexico City, Aguas Calientes-Zacatecas City road, Zacatecas. Elevation 2,200 meters. Flowers pale mauve.

251748. Col. No. 1467. Fifteen km. from Zacatecas City, Durango road, Zacatecas. Elevation 2,350 meters. Flowers white; berries white-dotted.

251749. Col. No. 1468. Fifteen km. from Zacatecas City, Durango City road, Zacatecas. Elevation 2,350 meters. Flowers mauve.

251750 to 251752. SOLANUM SAMBUCINUM Rydb.

251750. Col. No. 1438. Five km. from Dolores Hidalgo, Guanajuato. Elevation 1,800 meters.

251751. Col. No. 1439. San Miguel Allende-Dolores road, Hidalgo, Guanajuato. Elevation 1,800 meters.

251752. Col. No. 1442. Ten km. from Dolores Hidalgo, Guanajuato City road, Guanajuato. Elevation 2,000 meters.

251753 and 251754. SOLANUM STOLONIFERUM Schlecht.

251753. Col. No. 1452. Thirty km. from Dolores Hidalgo, Guanajuato City road, Guanajuato. Elevation 2,250 meters.

251754. Col. No. 1520. Forty-two km. from Carapan, Uruapan road, Michoacan. Elevation 2,300 meters.

251755 to 251758. SOLANUM VERRUCOSUM Schlecht.

251755. Col. No. 1512. Uruapan-Carapan road, above Capacuaro, Michoacan. Elevation 2,250 meters.

251756. Col. No. 1542. Northeast slope of Llanita de las Tepozas, Jalisco. Elevation 3,100 meters.

251757. Col. No. 1545. Northeast side of Nevado de Colima, near Rancho Juan Martinez, Jalisco. Elevation 3,200 meters.

251758. Col. No. 1546. Northeast side of Nevado de Colima, near Rancho Juan Martinez, Jalisco. Elevation 3,250 meters.

251759. SOLANUM sp.

Col. No. 1443. (No information given.)

251760. MEDICAGO (hybrid). Fabaceae.

From Italy. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 8, 1958.

Col. No. 17573. (*M falcata* × *M. sativa*). Six miles north of Pietramal, Bologna road. Elevation 3,000 feet. Short perennial; rhizomatous stems and leaves fine; flowers purple, turning yellow and greenish-yellow.

251761 to 251777.

From Great Britain. Cuttings purchased from Hillier & Sons, Winchester, Hants, England. Received Oct. 8, 1958.

251761 to 251763. ILEX AQUIFOLIUM L. Aquifoliaceae. **English holly.**

251761. 'Bicolor'.

251762. 'Chinensis'.

251763. 'Laurifolia Variegata'.

251764. ILEX CORALLINA Franch. **Coral holly.**

251765. ILEX DIPYRENA Wall. **Himalaya holly.**

251766 and 251767. ILEX FARGESII Franch. **Holly.**

251766. (No name.)

251767. 'Sclerophylla'.

251768. ILEX FRAGILIS Hook. f. **Holly.**

251769. ILEX HOOKERI King. **Holly.**

251770. ILEX INTRICATA Hook. f. **Nepal holly.**

251771. ILEX AQUIFOLIUM L. **English holly.**

'Latispina Minor'.

251772. ILEX MELANOTRICHA Merrill

251773. ILEX CASSINE Walt. **Dahoon.**

'Rosmarinifolia'.

251774. ILEX YUNNANENSIS Franch. **Holly.**

251775. ILEX (hybrid). **Holly.**

'N. F. Barnes'.

251776. ILEX GEORGEI Comber **Holly.**

F 24826.

251777. ILEX AQUIFOLIUM L. **English holly.**

'Recurva'.

251778. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**

From the Union of Soviet Socialist Republics. Seeds presented by the Agricultural Attaché, United States Embassy. Moscow. Received Oct. 8, 1958.

251779. TIBOUCHINA PULCHRA Cogn. Melastomataceae.

From Brazil. Seeds collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Numbered Oct. 9, 1958.

Col. No. 19047. Instituto Botanico, Sao Paulo.

251780 to 251786.

From the Union of Soviet Socialist Republics. Seeds presented by the Agricultural Institute, Novi Sad, Yugoslavia. Received Oct. 9, 1958.

251780. BRASSICA HIRTA Moench Brassicaceae. **White mustard.**

No. 304. Leningrad.

251781 to 251783. CICER ARIETINUM L. Fabaceae. **Chickpea.**

251781. No. 199. Kuba. Seeds black, testa reticulate.

251782. No. 583. Azerbaijan. Seeds white.

251783. No. 1168. Hybrid 27.

251784 to 251786. LENS CULINARIS Medic. Fabaceae. **Lentil.**

251784. No. 1893. 'Kolhoz 9'.

251785. No. 1814. Dnenropetrovsk.

251786. No. 1815. Krasnograd.

251787. MUSA VENTRICOSUM Welw. Musaceae.

From the Union of South Africa. Seeds presented by the South Africa Sugar Association Experiment Station, Mount Edgecombe, Natal. Received Oct. 14, 1958.

251788 and 251789. ERUCA SATIVA Mill. Brassicaceae. **Rocket-salad.**

From Iran. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 9, 1958.

251788. Col. No. K1668. 'Mandab'. Meshed bazaar.

251789. Col. No. K1494. 'Kaykos'. Flaverjan bazaar, 20 km. west of Isfahan.

251790. LACTUCA SATIVA L. Cichoriaceae. **Garden lettuce.**

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 9, 1958.

Macedonia. (No field note.)

251791. CUCURBITA PEPO L. Cucurbitaceae. **Pumpkin.**

Source unknown. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 10, 1958.

251792 to 251794.

From Brazil. Collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 9, 1958.

251792. THEOBROMA CACAO L. Sterculiaceae. **Cacao.**

Col. No. 103. Fazenda Catango, near Urucuca, Bahia. Typical 'Comun' or 'Amelonado' cacao but without red pigment in new leaves. Cotyledons are pure white if self-pollinated; may be purple if crossed. Seeds from five trees.

251793. HEVEA BRASILIENSIS (A. Juss.) Muell.-Arg. Euphorbiaceae. **Para rubber tree.**

Col. No. 104. 'Seringa'. Near Santarem. (Budsticks.)

251794. THEOBROMA sp.

Col. No. 105. Near Santarem. Wild species. (Budsticks.)

251795 to 251798.

From Italy and Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 9, 1958.

251795. ALLIUM sp. Liliaceae.

Col. No. 17586. Pietramala, Italy. Elevation 3,000 feet.

251796. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

Col. No. 17524. Market, Belgrade, Yugoslavia. Fruit sweet, red-fleshed, small.

251797. FRAGARIA VESCA L. Rosaceae. **European strawberry.**

Col. No. 17550. Terminillo, Italy. Elevation 5,200 feet. Plants small, growing with wild raspberries.

251798. LACTUCA SALIGNA L. Cichoriaceae.

Col. No. 17564. Consuma, east of Firenzi, Italy. Elevation 2,700 feet.

251799. TRIFOLIUM LIGUSTICUM Balb. Fabaceae.

From Portugal. Seeds presented by the Instituto de Botanica, Porto. Received March 4, 1959.

Annual.

251800. SIMMONDSIA CHINENSIS (Link) C. Schneid. Buxaceae. **Jojoba.**

From the United States. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received October 15, 1958.

Col. No. 16668. Huntington Botanical Garden, Los Angeles, California. Two mature shrubs 20 to 24 years old, leafy, dense, well-pruned, growing together; cultivated from seeds collected by Fritz Berger near Superior, Arizona about 1932; capsules at every other node, 1-seeded; seeds rounder than typical. Shrubs died in 1956.

251801 to 251870.

From Austria and Italy. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received October 10, 1958. From Italy unless otherwise noted.

251801 and 251802. ARRHENATHERUM ELATIUS (L.) Presl Poaceae. **Tall oatgrass.**

251801. Col. No. 17506. Atter See, Austria. Elevation 1,300 feet

251802. Col. No. 17531. Terminillo. Elevation 5,200 feet. Tall caney perennial.

251803. BRACHYPODIUM PINNATUM (L.) Beauv. Poaceae. **Japanese falsebrome.**

Col. No. 17530. 'Frasca'. Terminillo. Elevation 5,200 feet.

251804. BROMUS ERECTUS Huds. Poaceae. **Meadow brome.**

Col. No. 17528. Ten miles southwest of Rieti. Elevation 1,000 feet. Xerophytic perennial.

251805. BROMUS SCOPARIUS L.

Col. No. 17556. Monte Martani near Spoleto, Italy. Elevation 2,600 feet. Xerophytic, tufted perennial.

251806. BROMUS ERECTUS Huds. **Meadow brome.**

Col. No. 17583. Pietramala. Elevation 3,000 feet. Drought-resistant perennial.

251807. CORONILLA sp. Fabaceae.

Col. No. 17529. Ten miles southwest of Rieti. Elevation 1,000 feet. Perennial to 12 inches high.

251808. CORONILLA sp.

Col. No. 17546. Terminillo Mountain. Elevation 4,800 feet. Erect perennial to 12 inches high.

251809. CYNODON DACTYLON (L.) Pers. Poaceae. **Bermudagrass.**

Col. No. 17571. River Arno at Florence. Tall, coarse, forming knee-high cover.

251810 to 251812. CYNOSURUS CRISTATUS L. Poaceae. **Crested dogtail.**

251810. Col. No. 17517. Grassy slope, Eisenerz, Austria. Elevation 1,200 feet. Plants small, tufted.

251811. Col. No. 17534. Terminillo. Elevation 5,200 feet. Small tufted perennial.

251812. Col. No. 17551. Monte Martani near Spoleto. Elevation 2,600 feet. Xerophytic dwarf grass in over-grazed pasture.

251813 to 251819. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

251813. Col. No. 17513. Near Eisenerz, Austria. Elevation 1,200 feet Selected from several plants with heavy foliage.

251814. Col. No. 17527. Arid slope ten miles southwest of Rieti. Plant xerophytic, small, tufted.

251815. Col. No. 17532. Terminillo. Elevation 5,200 feet. Plant with many narrow leaves.

251816. Col. No. 17548. Terminillo. Elevation 4,800 feet. Plants stout, leafy; culms long.

251817. Col. No. 17557. Seeds from two xerophytic, short-leaved, vigorous, heavy-seeding plants.

251818. Col. No. 17567. River Arno at Florence. Plants rank, leafy.

251819. Col. No. 17577. Pietramala, Florence to Bologna. Elevation 2,800 feet. Plants narrow-leaved.

251820. DORYCNIUM PENTAPHYLLUM Scop. Fabaceae.

Col. No. 17582. Pietramala. Elevation 3,000 feet. Drought resistant. Low perennial.

251821. FESTUCA ELATIOR L. Poaceae. **Meadow fescue.**

Col. No. 17514. Near Eisenerz, Austria. Elevation 4,000 feet.

251822 and 251823. FESTUCA ARUNDINACEA Schreb. **Tall fescue.**

251822. Col. No. 17565. River Arno, Firenzi. Plants vigorous.

251823. Col. No. 17581. Pietramala, Florence to Bolonga. Elevation 3,000 feet. Plant drought tolerant.

251824. FESTUCA RUBRA L. **Red fescue.**

Col. No. 17549. Terminillo. Elevation 5,400 feet. Long-leaved perennial.

251825. GALEGA OFFICINALIS L. Fabaceae. **Common goatsrue.**

Col. No. 17561. East of Florence. Elevation 2,700 feet. Low perennial with two to three stems, to two feet high.

251826. LOLIUM MULTIFLORUM Lam. Poaceae. **Italian ryegrass.**

Col. No. 17502. Atter See, Austria. Elevation 1,300 feet. Plant vigorous; leaves long.

251827 and 251828. LOTUS CORNICULATUS L. Fabaceae. **Birdsfoot trefoil.**

251827. Col. No. 17540. Terminillo. Elevation 5,200 feet.

251828. Col. No. 17576. Pietramala, Florence to Bologna. Elevation 3,000 feet.

251829. LOTUS PEDUNCULATUS Cav. **Big trefoil.**

Col. No. 17509. Liedzen, Austria. Elevation 2,000 feet. Plants cespitose, to 16 inches high; stems slender, leafy; seeds late, indeterminate lightly.

251830 and 251831. MEDICAGO FALCATA L. Fabaceae. **Yellow-flowered alfalfa.**

251830. Col. No. 17495. Riedersburg, Vienna, Austria.

251831. Col. No. 17572. Seven miles north of Pietramala, road to Bologna. Elevation 3,000 feet.

251832 to 251834. MEDICAGO LUPULINA L. **Black medic.**

251832. Col. No. 17510. Eisenerz, Austria. Elevation 4,000 feet. Plants have long, strong-trailing stems.

251833. Col. No. 17563. (No field note.)

251834. Col. No. 17584. Pietramala. Elevation 3,000 feet. Plants low, prostrate.

251835 to 251837. MEDICAGO SATIVA L. **Alfalfa.**

251835. Col. No. 17569. River Arno, Florence. Spontaneous fine-stemmed plants.

251836. Col. No. 17574. Seven miles north of Pietramala, Bologna road. Elevation 3,000 feet. Spontaneous.

251837. Col. No. 17575. Seven miles north of Pietramala. Elevation 2,800 feet. Cultivated for hay.

251838. MELILOTUS ALBA Desr. Fabaceae. **White sweetclover.**

Col. No. 17507. Liedzen, Austria. Elevation 2,000 feet.

251839. MILIUM EFFUSUM L. Poaceae. **Milletgrass.**

Col. No. 17538. Terminillo. Elevation 5,000 feet. Leafy perennial.

251840. ONOBRYCHIS VICIAEFOLIA Scop. Fabaceae. **Sainfoin.**

Col. No. 17585. On rocky slope, Pietramala. Elevation 3,000 feet.

251841 and 251842. PHALARIS ARUNDINACEA L. Poaceae. **Reed canarygrass.**

251841. Col. No. 17520. Kafenberg, Austria. Elevation 1,600 feet.

251842. Col. No. 17521. Kafenberg, Austria. Elevation 1,600 feet.

251843. PHALARIS AQUATICA L. **Large canarygrass.**

Col. No. 17590. Seven to ten miles north of Civitivecchia. Large thriving clumps.

251844. PHLEUM ALPINUM L. Poaceae. **Alpine timothy.**

Col. No. 17537. Terminillo. Elevation 5,300 feet. Small tufted perennial.

251845. PHLEUM MICHELII All. **Timothy.**

Col. No. 17545. Rocky slope, Terminillo. Elevation 4,800 feet. Small tufted perennial.

251846. PHLEUM PRATENSE L. **Timothy.**

Col. No. 17559. Spedaletto Consuma, east of Florence. Elevation 2,700 feet.

251847 and 251848. SANGUISORBA MINOR Scop. Rosaceae. **Small burnet.**

251847. Col. No. 17553. Monte Martani near Spoleto. Elevation 2,600 feet. Perennial with thick, depressed rosette of leaves.

251848. Col. No. 17554. Monte Martani near Spoleto. Elevation 2,600 feet. Taller species than P.I. 251847; leaves longer, more erect.

251849 and 251850. TRIFOLIUM FRAGIFERUM L. Fabaceae. **Strawberry clover.**

251849. Col. No. 17568. River Arno, Florence. Small spreading plants.

251850. Col. No. 17579. Pietramala, Florence to Bologna. Elevation 3,000 feet. Plants matlike, on gravel.

251851 and 251852. TRIFOLIUM HYBRIDUM L. Fabaceae. **Alsike clover.**

251851. Col. No. 17508. Liedzen, Austria. Elevation 2,000 feet. Plants to one foot high.

251852. Col. No. 17562. Consuma, east of Florence. Elevation 2,700 feet. Plants small, thick-leaved.

251853 to 251861. TRIFOLIUM PRATENSE L. **Red clover.**

251853. Col. No. 17498. Hausruck, Austria. Spontaneous.

251854. Col. No. 17501. Atter See, Austria. Elevation 1,300 feet. Spontaneous in meadow.

251855. Col. No. 17505. Atter See, Austria. Elevation 1,300 feet.

251856. Col. No. 17516. Near Eisenerz, Austria. Elevation 4,000 feet.

251857. Col. No. 17519. Kafenberg, Austria. Elevation 1,600 feet. Spontaneous along stream bank.

251858. Col. No. 17533. Terminillo. Elevation 5,200 feet. Plants small with flat rosettes.

251859. Col. No. 17542. Terminillo. Elevation 5,300 feet. Plants small, variable.

251860. Col. No. 17544. Terminillo. Elevation 5,400 feet. Plants small, flattened rosettes.

251861. Col. No. 17587. South of Pietramala, Florence to Bologna. Elevation 2,800 feet.

251862 to 251866. TRIFOLIUM REPENS L. Fabaceae. **Whiteclover.**

251862. Col. No. 17504. Atter See, Austria. Elevation 1,300 feet. Plants vigorous, leafy.

251863. Col. No. 17515. Near Eisenerz, Austria. Elevation 4,000 feet. Plants small-leaved.

251864. Col. No. 17522. Near Saint Aegyd, Austria. Elevation 3,500 feet.

251865. Col. No. 17543. Terminillo. Elevation 5,400 feet. Plants low, small-leaved.

251866. Col. No. 17570. River Arno, Florence. Plants drought-depauperated, forming a loose open cover.

251867. TRIFOLIUM SQUARROSUM L. **Clover.**

(No note.)

251868. TRIFOLIUM OCHROLEUCON Huds.

Col. No. 17578. Pietramala, Florence to Bologna. Elevation 3,000 feet. Spindly perennial.

251869. TRISETUM FLAVESCENS (L.) Beauv. Poaceae.

Col. No. 17503. Atter see, Austria. Elevation 1,300 feet. Fine-leaved perennial.

251870. VICIA sp. Fabaceae.

Col. No. 17494. Riedersburg, Vienna, Austria. Fine-leaved annual.

251871 to 251880. ALLIUM BAKERI Regel Liliaceae.

From Japan. Bulbs presented by the Kagawa Local Government, Tenjinmatsushi. Received Oct. 13, 1958.

251871. Ball type for clay soil.

251872 to 251880. For sandy soil.

251872. Ball type.

251873. 'Chiba' type.

251874. 'Fukui' type.

251875. 'Kyushu' ball type.

251876. 'Shidzuoka A' type.

251877. 'Shidzuoka B' type.

251878. 'Tochigi' type.

251879. 'Toyama' type.

251880. 'Yatsubusa' type.

251881 to 251895. ZEA MAYS L. Poaceae. Corn.

From the Union of Soviet Socialist Republics. Seeds presented by the United States Embassy, Moscow. Received Oct. 14, 1958.

251881. 'Milovakaya 25'. Bashkiria.

251882. 'Chishminskaya I'. Bashkiria.

251883. 'Chakinskaya Zhemchuzhina'. Bashkiria.

251884. 'Beloiaro Psheno'. West Sibiria.

251885. 'Kharkovskaya White Dent'. Kharkovaskaya Obl. Ukrainian republic.

251886. 'Punduris'. Latvia.

251887. 'Sibiriachka'. Sibiria Region.

251888. 'Voronezh 76'. Voronezh District.

251889. 'Voronezh 80'. Voronezh District.

251890. 'Gloria Yanetskogo'. Germany.

251891. 'Bessarabka'. Moldavia.

251892. 'Chernovitskaya 21'. Inbred line.

251893. 'Karpatskaya 239'. Moldavia.

251894. 'Flint 98'. Moldavia.

251895. 'Flint 234'. Moldavia.

251896 to 251943.

From the Union of Soviet Socialist Republics. Seeds presented by the Technical Exchange Team, Moscow, to the Department of Agronomy, University of Nebraska, Lincoln, Nebraska. Received Oct. 14, 1958.

Localities given are former sources.

251896 to 251898. AVENA SATIVA var. ARISTATA Schlecht. Poaceae. **Oats.**

251896. No. 49. K4649. From Turkey.

251897. No. 50. K9715. Very early; northern Russia.

251898. No. 52. K8257. 'Soviet'.

251899 and 251900. AVENA SATIVA L. **Common oats.**

251899. No. 51. K8573. 'Aurea'. Northern Ukraine.

251900. No. 53. K2307. 'Mutica'. 'Shatilivskey 56'.

251901 and 251902. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

251901. No. 19. 'Jdanovsky 6432'. Yields 45% oil.

251902. No. 20. 'Kruglik A–41'. Yields 42–43% oil.

251903 to 251907. SECALE CEREALE L. Poaceae. **Rye.**

251903. No. 55. K7276.

251904. No. 57. K9352. Viatka.

251905. No. 54. K9573.

251906. No. 58. K9706. Leningrad.

251907. No. 56. K9805.

251908 to 251913. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

251908. No. 36. K37490. 'Hungarian'. Winter type.

251909. No. 32. K38389. 'Tsitsin hybrid 599'. Winter type.

251910. No. 28. K38441. Winter type.

251911. No. 35. K38490. Irkutsk, Siberia. Early, cold resistant.

251912. No. 30. K38517. 'Kolhoznitsa'. Leningrad.

251913. No. 34. K40612. 'Perennial 2'. 'Tsitsin'.

251914 and 251915. TRITICUM CARTHLICUM Nevski. **Wheat.**

251914. No. 46. K25170. Dry, hot region.

251915. No. 47. K26828.

251916 to 251923. TRITICUM DURUM Desf. **Durum wheat.**

251916. No. 38. K24141. Spring type.

251917. No. 42. K28112. 'Don Skaya 309'. Spring type.

251918. No. 43. K28124. 'Gordeiforme 27'. Kyban. Spring type.

251919. No. 44. K38330. Dry area 800 miles southeast of Moscow. Spring type.

251920. No. 40. K38382. Garmoka, Don region—dry area. Spring type.

251921. No. 37. K38390.

251922. No. 41. K38687. 'Sare Beday'. Semi-winter type.

251923. No. 39. K39099. Northern Ukraine. 'Chakinsaya 226'. Spring type.

251924. TRITICUM sp.

No. 45. K38258. Northern Caucusus. Amphidiploid. 2n-56. Spring type.

251925. TRITICUM ORIENTALE var. INSIGNE Percival **Wheat.**

No. 48. K39093. Dry area, Turkistan. 'Yakubz'. Spring type.

251926 to 251943. ZEA MAYS L. Poaceae. **Corn.**

251926. No. 1. Moldavia Mts. (Restorers A73, A166, Wf9, A334, A344, A385, A392, A374, OKSIA, OS420, IL4226, M14.)

251927. No. 2. Beloyaroe Psheno. Extra early.

251928. No. 3. Sivirachka, Siberia. Early.

251929. No. 4. Schindelmeiser, Germany. Medium maturity.

251930. No. 5. Mahndorfer, Germany. Medium early.

251931. No. 6. Gloria Yanetskaya, East Germany. Early and cold resistant.

251932. No. 7. 'Vorony 76'. Kharkov region.

251933. No. 8. 'Vorony 80'. Kharkov region.

251934. No. 9. 'Chernovitskaya 21'. Eastern Ukraine. Inbred line.

251935. No. 10. Wielnopolama, Poland. Early, cold resistant.

251936. No. 11. Brzika, Bulgaria. Early, productive.

251937. No. 12. Bulgaria Domestic corn, K13048.

251938. No. 13. Bulgaria Domestic Corn, K13072.

251939. No. 14. Bulgaria 'Osmak'. K13103 early.

251940. No. 15. Bulgaria, local variety K13061.

251941. No. 16. Bulgaria. 'Chirpan 96'. K13061. Mid-season.

251942. No. 17. Stalingrad. 'Rozenberg'. K11119—Dry area.

251943. No. 18. Steppe region 'Dnepropritrovsk'. K7529.

251944 to 251947.

From Austria. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 15, 1958.

251944. AGROSTIS ALBA L. Poaceae. **Redtop.**

Col. No. 17511. Near Eisenerz. Elevation 1,200 meters. Perennial forming close, deep, leaf crown.

251945. AGROSTIS PALUSTRIS Huds. **Creeping bentgrass.**

Col. No. 17512. Near Eisenerz. Elevation 1,200 meters. Perennial with short leafy stems, forming deep cover.

251946. ARRHENATHERUM ELATIUS (L.) Presl Poaceae. **Tall oatgrass.**

Col. No. 17496. Riedersburg, near Vienna. Leafy perennial.

251947. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

Col. No. 17497. Wells. Cultivated strain for hay production.

251948 and 251949. PHASEOLUS CALCARATUS Roxb. Fabaceae. **Rice bean.**

From the Belgian Congo. Seeds presented by the Institut National pour l'Etude Agronomique du Congo Belge, Yangambi. Received Oct. 15, 1958.

251948. P. C. 1.

251949. P. C. 3.

251950 to 251955. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

From Japan. Seeds presented by the Agricultural Experiment Station, Matamaru, Gifu City. Received Oct. 15, 1958.

251950. 'Congo'. Diploid.

251951. 'Fumin'. Tetraploid.

251952. 'Fumin I' X 'Charleston Gray'. Triploid.

251953. 'Fumin I' X 'Congo'. Triploid.

251954. 'Fumin 2' X 'Congo'. Triploid.

251955. 'Fumin 3' X 'Congo'. Triploid.

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251956 to 251974. URGINEA MARITIMA (L.) Baker Liliaceae. Sea-onion.

From Portugal, Spain and Greece. Bulbs collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 15, 1958.

251956. Col. No. 16894. 'Cebola Alberan'. Northeast of Evora, Portugal. Elevation 500 meters. Cluster of white squill with soft succulent bulbs, weighing to 2.5 kilos each.

251957. Col. No. 16895. 'Cebola Alberan'. Thirty-eight km. northeast of Evora. Elevation 500 meters.

251958. Col. No. 16916. Santiago, 140 km. southeast of Lisbon, Portugal. White bulbs.

251959. Col. No. 16917. Oeiras, Portugal.

251960. Col. No. 16918. Oeiras, Portugal. Small white squill, but some bulbs tinged with lavender.

251961. Col. No. 16931. 'Cebola Borda'. Near Cullera, Spain. White squill forming small clusters of bulbs of good size, one to two kilos each.

251962. Col. No. 16987. 'Cebola Borda'. Sierra Despenaperos, Spain. Elevation 1,000 meters. Cold resistant.

251963. Col. No. 16988. Sierra Despenaperos, Spain. Elevation 1,000 meters. White squill, leaves close, erect.

251964. Col. No. 16996. Messara, Crete. Elevation 230 meters. Bulbs reddish, single and in clumps; leaves dry.

251965. Col. No. 16997. Messara, Crete. Elevation 230 meters. Bulbs reddish, single and clustered.

251966. Col. No. 16998. Messara, Crete. Elevation 230 meters. Bulbs reddish, clustered.

251967. Col. No. 17006. Canyon, Potamous Amari, Crete. Elevation 600 meters. Bulbs large, vigorous, single, cespitose, reddish.

251968. Col. No. 17011. Karoti, Rethymnon, Crete. Elevation 160 meters. Bulbs white and reddish, large, in clusters.

251969. Col. No. 17019. Clay soil, 25 km. southeast of Iraklion, Crete. Elevation 300 meters. Bulbs single, reddish.

251970. Col. No. 17027. Saint Nicolas. Bulbs small, dry, white, single.

251971. Col. No. 17119. (No field note.)

251972. Col. No. 17120. Northwest of Menidhion between Arta and Arginion, Greece. Bulbs red.

251973. Col. No. 17121. One km. north of Menidhion between Arta and Arginion, Greece. Bulbs red.

251974. Col. No. 17338. Korcula Island, Greece.

251975 to 252005.

From Turkey and Afghanistan. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 15, 1958.

From Turkey, unless otherwise noted.

251975. CHRYSOPOGON GRYLLUS (L.) Trin. Poaceae.

Col. No. K1939. Twenty miles west of Istanbul. Plant to 36 inches high.

251976. BROMUS SCOPARIUS L. Poaceae.

Col. No. K760. Twenty miles west of Kandahar, Afghanistan. Plants to eight inches high.

251977 to 251987. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

251977. Col. No. K1853. Potatli bazaar.

251978. Col. No. K1861. Seven miles west of Sivrihisar. Plant spiny, to 24 inches high; flowers red, orange and yellow.

251979. Col. No. K1862. Seven miles west of Sivrihisar. Plants to 24 inches high; spineless; flowers red, orange and yellow; heads smaller than spiny types.

251980. Col. No. K1867. Eskisehir bazaar.

251981 to 251987. Experiment Station, Eskisehir.

251981. Col. No. K1868. Variety 5–38.

251982. Col. No. K1869. Variety 5–39.

251983. Col. No. K1870. Variety 5–40.

251984. Col. No. K1871. Variety 5–41.

251985. Col. No. K1872. Variety 5–42.

251986. Col. No. K1873. Variety 5–43.

251987. Col. No. K1874. Variety 5–44.

251988 and 251989. CARTHAMUS (hybrids). Asteraceae.

(*C. tinctorius* × *C. flavescens*). Experiment Station, Eskisehir.

251988. Col. No. K1875. Variety 5–39. Flowers yellow.

251989. Col. No. K1876. Variety 5–41.

251990 to 251993. HELIANTHUS ANNUS L. Asteraceae. **Common sunflower.**

251990. Col. No. K1879. Eleven miles northwest of Bilecik. Plants to six feet high.

251991. Col. No. K1882. Bilecik.

251992. Col. No. K1892. Bursa bazaar.

251993. Col. No. K1893. Bursa bazaar.

251994. HORDEUM VULGARE L. Poaceae. **Common barley.**

Col. No. K1890. Bursa bazaar.

251995 to 251998. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

251995. Col. No. K1825. Eight miles southeast of Corum. Plants to 12 inches high.

251996. Col. No. K1836. Amasya bazaar.

251997. Col. No. K1866. Eskisehir bazaar.

251998. Col. No. K1878. Eleven miles northwest of Bilecik. Plant to 12 inches high.

251999. NICOTIANA TABACUM L. Solanaceae. **Common tobacco.**

Col. No. K1894. Bursa bazaar.

252000. PHALARIS TRUNCATA Guss. Poaceae. **Canarygrass.**

Col. No. K1927. Six miles west of Istanbul. Plants 30 inches high.

252001. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

Col. No. K1895. Outskirts of Bursa. Plants to four feet high. Capsules mostly mahogany green, but some pink and red.

252002 and 252003. SECALE CEREALE L. Poaceae. **Rye.**

252002. Col. No. K1860. Three miles east of Sivrihisar. Heads to eight inches long.

252003. Col. No. K1891. Bursa bazaar.

252004. VICIA FABA L. Fabaceae. **Broadbean.**

Col. No. K1884. Bursa bazaar.

252005. ZEA MAYS L. Poaceae. **Corn.**

Col. No. K1888. Rumanian type. Bursa bazaar.

252006 and 252007. ACTINIDIA CHINENSIS Planch. Dilleniaceae. Yang tao.

From China. Seedlings growing at the U.S. Plant Introduction Station, Chico, California. Numbered Oct. 16, 1958.

Formerly from Ichang, Hupeh.

252006. Staminate. Selection from P.I. 46864.

252007. Pistillate. Selection from P.I. 46864.

252008 to 252043.

From Turkey. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 16, 1958.

252008. AVENA SATIVA L. Poaceae. **Common oats.**

Col. No. K1889. Bursa bazaar.

252009 to 252017. CARTHAMUS DENTATUS Vahl Asteraceae.

252009. Col. No. K1807. Seven miles east of Ankara, Cerikli road. Plants to 30 inches high; flowers light purple.

252010. Col. No. K1810. Cerikli road, 17 miles east of Ankara.

252011. Col. No. K1814. Near Lalahan, 20 miles east of Ankara.

252012. Col. No. K1840. Seven miles east of Kirikkale.

252013. Col. No. K1843. Two and a half miles west of Ankara.

252014. Col. No. K1857. Ankara-Eskisehir highway, one mile east of Sakarya River crossing. Plants to four feet high.

252015. Col. No. K1858. Two and a half miles east of Sivrihisar. Plants to 18 inches high.

252016. Col. No. K1877. Six miles northwest of Bilecik. Plants to eight inches high.

252017. Col. No. K1881. Ten miles east of Yenisehir. Plants to 18 inches inches high.

252018 to 252024. CARTHAMUS FLAVESCENS Willd.

252018. Col. No. K1815. Twenty-one miles east of Ankara, four miles west of Elmadag.

252019. Col. No. K1817. Thirty miles east of Ankara, seven miles east of Elmadag. Plants to 18 inches high.

252020. Col. No. K1821. Near Cerikli. Plants to 24 inches high.

252021. Col. No. K1838. Two and a half miles east of Yerkoy.

252022. Col. No. K1842. Two and a half miles west of Ankara.

252023. Col. No. K1844. Twenty-five miles southwest of Ankara.

252024. Col. No. K1863. Sixteen miles east of Eskisehir.

252025 to 252030. CARTHAMUS GLAUCUS Bieb.

252025. Col. No. K1820. Near Cerikli. Plants to 36 inches high; flowers purple.

252026. Col. No. K1824. Thirty-one miles northeast of Sungurlu. Heads clumped.

252027. Col. No. K1826. Junction Corum-Yozgat and Corum-Ankara roads. Plants to four feet high; flowers dark purple.

252028. Col. No. K1831. Agriculture School, Gokhoyuk.

252029. Col. No. K1832. One mile east of Turhal.

252030. Col. No. K1839. Ten miles west of Yerkoy.

252031 to 252039. CARTHAMUS LANATUS L.

252031. Col. No. K1811. Cerikli road, 11 miles east of Ankara.

252032. Col. No. K1813. Cerikli road, 19 miles east of Ankara.

252033. Col. No. K1819. Near Cerikli.

252034. Col. No. K1822. Two and a half miles northeast of Sungurlu.

252035. Col. No. K1830. Agriculture School, Gokhoyuk.

252036. Col. No. K1833. Two miles southwest of Yozgat.

252037. Col. No. K1849. Four miles northeast of Hyamana.

252038. Col. No. K1880. Eleven miles east of Yenisehir.

252039. Col. No. K1896. Western Bursa. Flowers lemon yellow.

252040 to 252042. CARTHAMUS TINCTORIUS L. **Safflower.**

252040. Col. No. K1804. University of Ankara, Ankara.

252041. Col. No. K1805. University of Ankara, Ankara.

252042. Col. No. K1806. Field near Faculty of Agriculture, University of Ankara. Plant to 30 inches high; spineless; flowers red.

252043. CARTHAMUS sp.

Col. No. K1850. Six miles west of Haymana.

252044 to 252049.

From Italy. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 16, 1958.

252044. AGROPYRON CANINUM (L.) Beauv. Poaceae. **Awned wheatgrass.**

Col. No. 17536. Terminillo. Elevation 5,200 feet. Perennial with leafy culms.

252045. AGROSTIS TENUIS Sibth. Poaceae. **Colonial bentgrass.**

Col. No. 17552. Monte Martani, near Spoleto. Elevation 2,600 feet. Wild perennial forming spreading clumps.

252046. ALOPECURUS PRATENSIS L. Poaceae. **Meadow foxtail.**

Col. No. 17547. Terminillo. Elevation 4,800 feet. Plant leafy; leaves narrow; culms short.

252047. ANTHOXANTHUM ODORATUM L. Poaceae. **Sweet vernalgrass.**

Col. No. 17539. Terminillo. Elevation 5,000 feet.

252048. DANTHONIA sp. Poaceae.

Col. No. 17555. Monte Martani, near Spoleto. Elevation 2,600 feet. Perennial; crown short; leaves tufted.

252049. SIEGLINGIA sp. Poaceae.

Col. No. 17558. Monte Martani, near Spoleto. Elevation 2,600 feet. Perennial; culms spreading.

252050. ARENGA ENGLERI Becc. Phoenicaceae. **Palm.**

From Australia. Seeds collected by W. H. Hodge, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 16, 1958.

S–4. Botanic Garden, Sydney, New South Wales.

252051. ALLIUM sp. Liliaceae.

From Iran. Bulbs presented by the Ministry of Agriculture, Meshed. Received Oct. 17, 1958.

Wild in mountains near Meshed, Nishapur, Tobat-e-Hedri, and nearby areas, northeastern Iran. Annual rainfall is nine inches or less.

252052 and 252053.

From Turkey. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 17, 1958.

252052. BROMUS sp. Poaceae.

Col. No. K1812. Sixteen miles east of Ankara, Cerikli road. Plant to 18 inches high.

252053. VICIA ERVILIA (L.) Willd. Fabaceae. **Bittervetch.**

Col. No. K1883. Bursa bazaar.

252054 to 252058.

From Jordan. Seeds presented by the United States Operations Mission, International Cooperation Administration, Washington, D.C.

252054. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

252055. HORDEUM BULBOSUM L. Poaceae. **Bulbous barley.**

South of Kerak. Elevation 4,500 feet.

252056 and 252057. ORYZOPSIS COERULESCENS (Desf.) Hack. Poaceae.

252056. Reshadiya, south of Kerak. Elevation 4,500 feet.

252057. Three miles west of Shobek. Elevation 3,800 feet.

252058. STIPA sp. Poaceae.

Three miles west of Shobek.

252059 and 252060.

From Jordan. Seeds presented by the United States Operations Mission to Jordan, Amman. Received October 17, 1958.

252059. STIPA sp. Poaceae.

Stony clay loam, Reshadiya, south of Kerak. Elevation 4,500 feet.

252060. STIPA sp.

Rocky sandstone soil, on road to Deir Alla.

252061. AGAVE sp. Amaryllidaceae.

From Mexico. Plants collected by Bernice G. Schubert, Agricultural Explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received October 17, 1958.

Col. No. 1672. Paraiso, between road and ocean, Campeche-Champoton road, Campeche. Small plants scattered along shore.

252062 to 252064.

From Nepal. Presented by the United States Operations Mission, Katmandu. Received October 18, 1958.

252062. CAMELLIA KISSI Wall. Theaceae.

(Cuttings.)

252063. RUBUS sp. Rosaceae.

(Plant.)

252064. CAMELLIA KISSI Wall. Theaceae.

(Seeds.)

252065 to 253122.

From Mexico. Plants collected and presented by D. K. Cox, Syntex, S.A., Mexico, D.F. Received April 14, 1958.

Clones collected in Chiapas in January, February and March 1958.

252065 to 252159. DIOSCOREA COMPOSITA Hemsl. Dioscoreaceae. **Yam.**

252065.	G63.	252097.	G95.	252129.	T16.
252066.	G64.	252098.	G96.	252130.	T17.
252067.	G65.	252099.	G97.	252131.	T18.
252068.	G66.	252100.	G98.	252132.	T19.
252069.	G67.	252101.	G99.	252133.	T20.
252070.	G68.	252102.	G100.	252134.	T21.
252071.	G69.	252103.	G101.	252135.	T22.
252072.	G70.	252104.	G102.	252136.	T23.
252073.	G71.	252105.	G103.	252137.	T24.
252074.	G72.	252106.	G104.	252138.	T25.
252075.	G73.	252107.	G105.	252139.	T26.
252076.	G74.	252108.	G106.	252140.	T27.
252077.	G75.	252109.	G107.	252141.	T28.
252078.	G76.	252110.	G108.	252142.	T29.
252079.	G77.	252111.	G109.	252143.	T30.
252080.	G78.	252112.	G110.	252144.	T31.
252081.	G79.	252113.	G111.	252145.	T32.
252082.	G80.	252114.	T1.	252146.	T33.
252083.	G81.	252115.	T2.	252147.	T34.
252084.	G82.	252116.	T3.	252148.	T35.
252085.	G83.	252117.	T4.	252149.	T36.
252086.	G84.	252118.	T5.	252150.	T37.
252087.	G85.	252119.	T6.	252151.	T38.
252088.	G86.	252120.	T7.	252152.	T39.
252089.	G87.	252121.	T8.	252153.	T40.
252090.	G88.	252122.	T9.	252154.	T41.
252091.	G89.	252123.	T10.	252155.	T42.
252092.	G90.	252124.	T11.	252156.	T43.
252093.	G91.	252125.	T12.	252157.	T44.
252094.	G92.	252126.	T13.	252158.	T45.
252095.	G93.	252127.	T14.	252159.	T46.
252096.	G94.	252128.	T15.		

252160 to 252370. DIOSCOREA FLORIBUNDA Mart. & Gal. **Yam.**

252160.	G112.	252166.	G118.	252172.	G124.
252161.	G113.	252167.	G119.	252173.	G125.
252162.	G114.	252168.	G120.	252174.	G126.
252163.	G115.	252169.	G121.	252175.	G127.
252164.	G116.	252170.	G122.	252176.	G128.
252165.	G117.	252171.	G123.	252177.	G129.

252178. G130.
252179. G131.
252180. G132.
252181. G133.
252182. G134.
252183. G135.
252184. G136.
252185. G137.
252186. G138.
252187. G139.
252188. G140.
242189. G141.
252190. G142.
252191. G143.
252192. G144.
252193. G145.
242194. G146.
252195. G147.
252196. G148.
252197. G149.
252198. G150.
252199. G151.
252200. G152.
252201. G153.
252202. G154.
252203. G155.
252204. G156.
252205. G157.
252206. G158.
252207. G159.
252208. G160.
252209. G161.
252210. G162.
252211. G163.
252212. G164.
252213. G165.
252214. G166.
252215. G167.
252216. G168.
252217. G169.
252218. G170.
252219. G171.
252220. G172.
252221. G173.
252222. G174.
252223. G175.
252224. G176.
252225. G177.
252226. G178.
252227. G179.
252228. G180.
252229. G181.
252230. G182.
252231. G183.
252232. G184.
252233. G185.
252234. G186.
252235. G187.
252236. G188.
252237. G189.
252238. G190.
252239. G191.
252240. G192.
252241. G193.
252242. G194.
252243. G195.
252244. G196.
252245. G197.
252246. G198.
252247. G199.
252248. G200.
252249. G201.
252250. G202.
252251. G203.
252252. G204.
252253. G205.
252254. G206.
252255. G207.
252256. G208.
252257. G209.
252258. G210.
252259. G211.
252260. G212.
252261. G213.
252262. G214.
252263. G215.
252264. G216.
252265. G217.
252266. G218.
252267. G219.
252268. G220.
252269. G221.
252270. G222.
252271. G223.
252272. G224.
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253123. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

From Ethiopia. Seeds collected by the Oklahoma State University Mission to Ethiopia. Received Oct. 22, 1958.

From the Agricultural Technical School, Jimma, 1958.

253124. CITRUS SINENSIS (L.) Osbeck Rutaceae. **Sweet orange.**

From Brazil. Seeds collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 22, 1958.

Col. No. 106, 'Selecta'. Experiment Station Farm, Fomento, near Santarem. Fruits of excellent flavor.

253125. PRUNUS ARMENIACA L. Amygdalaceae. **Apricot.**

From Iran. Seeds collected by the Ministry of Agriculture, Meshed. Received Oct. 22, 1958.

'Nouri'. The largest apricot in the Meshed area, ripening about 10 days earlier than others.

253126 to 253131.

From Great Britain. Bulbs presented by the Royal Botanic Gardens, Kew, Surrey, England. Received Oct. 22, 1958.

253126. ALLIUM MACRANTHUM Baker Liliaceae.

253127. ALLIUM PARADOXUM (Bieb.) Don

253128. ALLIUM PENDULINUM Tenore

253129. ALLIUM URSINUM L.

253130. SCILLA AUTUMNALIS L. Liliaceae. **Autumn squill.**

253131. TRITONIA sp. Iridaceae.

253132. OREOPANAX CAPITATUM (J. E. Sm.) Dcne. & Planch. Araliaceae.

From Italy. Seeds presented by the Stazion Sperimentale di Floricoltura "Orazio Raimondo", Sanremo. Received Oct. 22, 1958.

253133. COSTUS sp. Zingiberaceae.

From Panama. Seeds collected and presented by Ira S. Nelson, Southwest Louisiana Institute, Lafayette, Louisiana. Received Oct. 22, 1958.

253134 and 253135.

From the Union of Soviet Socialist Republics. Seeds presented by the All Union Propagation Institute, Voronezh. Received Oct. 22, 1958.

253134. CAMELINA SATIVA (L.) Crantz. Brassicaceae.

No. 4139. Voronezh.

253135. LALLEMANTIA IBERICA (Bieb.) Fisch. & Mey. Menthaceae.

No. 11.

253136 to 253138.

From Yugoslavia. Seed presented by Seed Enterprise, Belgrade. Received Oct. 22, 1958.

253136. ANETHUM GRAVEOLENS L. Apiaceae. **Dill.**

No. 1237.

253137. PAPAVER SOMNIFERM L. Papaveraceae. **Opium poppy.**

No. 1175.

253138. PINUS MUGO Turra Pinaceae. **Swiss mountain pine.**

No. 1546.

253139 to 253172.

From Afghanistan, Iran and Turkey. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 22, 1958.

253139. ALYSSUM sp. Brassicaceae.

Col. No. K1430. 'Guduma'. Isfahan bazaar, Iran.

253140 and 253141. AMMI COPTICUM L. Apiaceae.

253140. Col. No. K737. Girishk bazaar, Afghanistan.

253141. Col. No. K1403. 'Zenum'. Isfahan bazaar, Iran.

253142. ANETHUM GRAVEOLENS L. Apiaceae. **Dill.**

Col. No. K1407. 'Shevid'. Isfahan bazaar, Iran.

253143. BUPLEURUM sp. Apiaceae.

Col. No. K1413. 'Ziresiah'. Isfahan bazaar, Iran.

253144. CENTAUREA sp. Asteraceae.

Col. No. K764. Near ICA Staff House, Kandahar, Afghanistan. Plants to 30 inches high; flowers purple.

253145 and 253146. CORIANDRUM SATIVUM L. Apiaceae. **Coriander.**

253145. Col. No. K740. Girishk bazaar, Afghanistan.

253146. Col. No. K1425. 'Gashniz'. Isfahan bazaar, Iran.

253147. DELPHINIUM sp. Ranunculaceae.

Col. No. K1589. One hundred ten km. from Ardebil on Moghan road, Iran. Flowers purple.

253148. DELPHINIUM sp.

Col. No. K1636. Thirty-three km. west of Lari, Iran. Flowers purple.

253149. FILAGO sp. Asteraceae.

Col. No. K436. Rawalpindi-Murree road, West Pakistan. Plants small, ephemeral.

253150 and 235151. FOENICULUM VULGARE Mill. Apiaceae. **Fennel.**

253150. Col. No. K742. Girishk bazaar, Afghanistan.

253151. Col. No. K1414. 'Badyun'. Isfahan bazaar, Iran.

253152. IRIS sp. Iridaceae.

Col. No. K1901. Thirteen miles north of Mustafakemalpasa, Turkey.

253153. LALLEMANTIA sp. Menthaceae.

Col. No. K1543. 'Black Bazrak'. Tabriz bazaar, Iran.

253154. LEPIDIUM SATIVUM L. Brassicaceae. **Garden cress.**

Col. No. K1398. 'Shahi'. Isfahan bazaar, Iran.

253155. LILLIUM sp. Liliaceae.

Col. No. K1913. Twelve miles southwest of Sindirgi, Turkey. Plants to six inches high.

253156. NIGELLA SATIVA L. Ranunculaceae. **Black cumin.**

Col. No. K1917. Istanbul bazaar, Turkey.

253157 and 253158. OCIMUM BASILICUM L. Menthaceae. **Basil.**

253157. Col. No. K1401. 'Rayhoon'. Isfahan bazaar, Iran.

253158. Col. No. K1428. 'Tokhm Sharbati'. Isfahan bazaar, Iran.

Used as a beverage with sugar and water.

253159 to 253163. PAPAVER SOMNIFERUM L. Papaveraceae. **Opium poppy.**

253159. (No field number.) Purchased at Cooperative State Seed Store, Skopje, Macedonia, Yugoslavia.

253160. Col. No. K1377. 'Khash-Khash'. Isfahan bazaar, Iran.

253161. Col. No. K1458. 'Khash-Khash'. Isfahan bazaar, Iran.

253162. Col. No. K1489. 'Khash-Khash'. Flaverjan bazaar, 12 miles west of Isfahan.

253163. Col. No. K1669. 'Khash-Khash'. Meshed bazaar, Iran.

253164. PAPAVER sp.

Col. No. K1633. North side of Mount Savalan, east of Tabriz, Iran.

253165. PLANTAGO PSYLLIUM L. Plantaginaceae. **Flaxseed plantain.**

Col. No. K1408. 'Esfarza'. Isfahan bazaar, Iran.

253166. PLANTAGO sp.

Col. No. K603. Khyber Pass, Afghanistan.

253167. PLANTAGO sp.

Col. No. K1427. 'Barhang'. Isfahan bazaar.

253168. RUBIA TINCTORIA L. Rubiaceae. **Madder.**

Col. No. K1457. 'Ronyas'. Isfahan bazaar, Iran. Roots used as source of dye.

253169. RUMEX sp. Polygonaceae.

Col. No. K1946. Thirty-five miles west of Istanbul. Plant to four feet high.

253170. SALVIA sp. Menthaceae.

Col. No. K1431. 'Marze'. Isfahan bazaar. Leaves used as a vegetable.

253171. (Undetermined.) Menthaceae.

Col. No. K1429. 'Bollangu'. Isfahan bazaar. Infusion used for chest troubles.

253172. (Undetermined.)

Col. No. K1905. Twelve miles northwest of Balikesir, Turkey.

253173. MORINGA OLEIFERA Lam. Moringaceae. Horseradish-tree.

From Jordan. Seeds collected by the United States Operations Mission, Amman. Received October 23, 1958.

Eastern side of the Dead Sea, near Main Springs.

253174 to 253178.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 23, 1958.

253174. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

Col. No. 17492. Sava River Valley, Serbia. Elevation 500 feet. Yellow flesh variety; cultivated on heavy soils.

253175. CORNUS MAS L. Cornaceae. **Cornelian-cherry.**

Col. No. 17444. Matavun, Slovenia. Elevation 1,300 feet.

253176. PHASEOLUS VULGARIS L. Fabaceae. **Common bean.**

Col. No. 17426. Ljubljana, Slovenia. Elevation 1,000 feet. Pole bean.

253177. PIPTANTHUS NEPALENSIS (Hook.) Sweet Fabaceae.

Col. No. 17383. Sarajevo, Bosnia. Elevation 2,000 feet. Leafy tree used as a hedge.

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253178. BUPTHALMUM SPECIOSUM (Baumg.) Schreb. Asteraceae.

Col. No. 17272. Northern slope of Shar Plannina. Elevation 4,300 feet. Leaves large; flowers yellow, large, attractive.

253179 to 253181.

From Turkey. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 23, 1958.

253179. DELPHINIUM sp. Ranunculaceae.

Col. No. K1827. Seventeen miles northeast of Sungurlu. Flowers purple.

253180. DELPHINIUM sp.

Col No. K1847. Four miles northeast of Haymana. Flowers light purple.

253181. (Undetermined.) Menthaceae.

Col. No. K1851. Ten miles west of Haymana. Plant to four feet high; flowers purple.

253182 to 253187. CYAMOPSIS TETRAGONOLOBA (L.) Taub. Fabaceae. Guar.

From the United States. Seeds stored at the United States Plant Introduction Station, Glenn Dale, Maryland. Numbered Oct. 23, 1958.

253182. B–49819.
253183. B–49820.
253184. B–49821.
253185. B–49822.
253186. B–49823.
253187. B–49824.

253188 to 253202.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 23, 1958.

253188. ANTHOXANTHUM ODORATUM L. Poaceae. **Sweet vernalgrass.**

Col. No. 17320. South end of Mount Durmitor, Montenegro. Elevation 4,600 feet.

253189. DANTHONIA sp. Poaceae.

Col. No. 17297. Thirty miles east of Titograd, Montenegro. Elevation 4,200 feet. Perennial; heads short; culms long.

253190. FESTUCA RUBRA var. HETEROPHYLLA (Lam.) Mutel **Shade fescue.**

Col. No. 17308. Mount Durmitor, Montenegro. Elevation 5,100 feet Perennial; blades yellowish.

253191. DESCHAMPSIA sp. Poaceae.

Col. No. 17365. Kupres Valley, Bosnia. Elevation 3,800 feet. Sparsely tufted perennial in *Nardus-Festuca* association.

253192. FESTUCA RUBRA var. HETEROPHYLLA (Lam.) Mutel Poaceae. **Shade fescue.**

Col. No. 17257. Northeast end of Shar Plannina. Elevation 4,100 feet. Fine-leaved mesophytic perennial.

253193. BROMUS ERECTUS Huds. **Meadow brome.**

Col. No. 17322. Limestone rocks, north end of Mount Durmitor, Montenegro. Elevation 5,000 feet. Leafy xerophyte.

253194. FESTUCA RUBRA var. HETEROPHYLLA (Lam.) Mutel **Shade fescue.**

Col. No. 17375. Twelve miles south of Kupres, Bosnia. Elevation 4,000 feet.

253195. GLYCERIA FLUITANS (L.) R. Br. Poaceae.

Col No. 17160. Twelve miles north of Vranje. Perennial; leaves broad, succulent; culms tall.

253196. POA PRATENSIS L. Poaceae. **Kentucky bluegrass.**

Col. No. 17282. Chakor Mountains, Montenegro. Elevation 6,400 feet.

253197. SPOROBOLUS sp. Poaceae.

Col. No. 17388. Twelve miles east of Sarajevo, Bosnia. Elevation 3,000 feet. Tall, leafy.

253198 and 253199. TRIFOLIUM HYBRIDUM L. Fabaceae. **Alsike clover.**

253198. Col. No. 17324. South of Shavnick, Montenegro. Elevation 3,900 feet. Slender perennial to two feet high.

253199. Col No. 17394. Romanian Mountains, east of Sarajevo, Bosnia. Elevation 3,800 feet.

253200. TRIFOLIUM MEDIUM Huds. Fabaceae. **Zig-zag clover.**

Col. No. 17377. Rocky mountain road east of Kupres, Bosnia. Elevation 3,800 feet. Perennial to two feet high.

253201. TRIFOLIUM ALEXANDRINUM L. **Berseem clover.**

Col. No. 17195. Clay soil, State Farm, Macedonia, Elevation 1,200 feet, Vigorous annual.

253202. TRIFOLIUM MONTANUM L. **Clover.**

Col. No. 17261. North slope of Shar Plannina. Elevation 4,200 feet. Perennial to one foot high; stems slender, nearly leafless.

253203 to 253206.

From Greece. Seeds presented by the Experiment Station of the University of Salonica, Salonica. Received Oct. 23, 1958.

253203. PRUNUS AVIUM L. Amygdalaceae. **Sweet cherry.**

Trees vigorous, heavy bearers; fruits small, dark-red, fine-flavored. Said to come true from seed.

253204. PRUNUS CERASIFERA Ehrh. **Myrobalan plum.**

Fruits fine flavored; comes true from seed. Said to be rootstock for all varieties of plums and peaches, especially in wet soils.

253205. PRUNUS MAHALEB L. **Mahaleb cherry.**

Used as a dwarfing rootstock for cherries; said to induce early fruiting and shorten tree life to eight or nine years.

253206. PYRUS COMMUNIS L. Malaceae. **Common pear.**

253207 to 253221.

From Mexico. Tubers presented by J. G. Hawkes, Birmingham University, England. Received Oct. 24, 1958.

253207 and 253208. SOLANUM BULBOCASTANUM Dun. Solanaceae.

253207. Col. No. 1617. Shady, grassy banks, Parque Nacional de "Tepeyac", seven kms. north of Mexico City. Elevation 2,350 meters.

253208. Col. No. 1627. El Parque, Morelos, 95 km. from Mexico City, railway from Mexico City to Cuernavaca. Elevation 2,250 meters.

253209 to 253211. SOLANUM BULBOCASTANUM var. DOLICHOPHYLLUM Bitt.

253209. Col. No. 1628. Morelos, 93 km. from Mexico City, railway from Mexico City to Cuernavaca. Elevation 2,250 meters.

253210. Col. No. 1632. Half km. above El Parque, Morelos, railway from Mexico City to Cuernavaca. Elevation 2,300 meters.

253211. Col. No. 1637. Morelos, sixty-five km. from Mexico City, old highway from Mexico City to Cuernavaca. Elevation 2,100 meters. Open pine wood, partial shade.

253212. SOLANUM CARDIOPHYLLUM Lindl.

Col. No. 1598. Villa Guerrero, Mexico, Tenancingo-Istapan de la Sal road. Elevation 1,800 meters.

253213. SOLANUM CARDIOPHYLLUM var. ENDOIODANDRUM Bitt.

Col. No. 1640. Near Tehuacan, Pueblo. Vera Cruz-Puebla-Tehuacan road, Elevation 1,800 meters.

253214. SOLANUM PINNATISECTUM Dun.

Col. No. 1665. Ejido de Sauz, Queretaro. San Juan del Rio-Queretaro road.

253215 and 253216. SOLANUM SAMBUCINUM Rydg.

253215. Col. No. 1667. Base of hill near Presa Pinta, Queretaro, San Juan del Rio, Cerro la Venta. Elevation 1,950 meters.

253216. Col. No. 1668. Base of hill near Presa Pinta, Queretaro, San Juan del Rio, Cerro la Venta. Elevation 1,950 meters.

253217 and 253218. SOLANUM SEMIDEMISSUM Buk.

253217. Col. No. 1675. Desierto de los Leones, above Mexico City, road to San Miquel. Elevation 3,050 meters.

253218. Col. No. 1676. Desierto de los Leones, Distrito Federal. Elevation 2,950 meters.

253219. SOLANUM STOLONIFERUM Schlecht.

Col. No. 1579. Ajusco, Distrito Federal. Elevation 2,950 meters.

253220 and 253221. SOLANUM VALLIS-MEXICAE Juz.

253220. Col. No. 1672. Twenty-three and one-half km. from Mexico City, Toluca road. Elevation 2,800 meters.

253221. Col. No. 1673. La Venta, 24 km. from Mexico City, Toluca road. Elevation 2,800 meters.

253222 and 253223.

From Australia. Scions collected by W. H. Hodge, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 24, 1958.

From Brisbane Botanical Garden, Brisbane, Queensland.

253222. THUNBERGIA MYSORENSIS (Wight.) T. Anders. Acanthaceae. **Clockvine.**

253223. TECOMANTHE VENUSTA S. Moore Bignoniaceae.

253224 to 253230.

From Turkey. Seeds collected from P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 27, 1958.

253224. ALLIUM sp. Liliaceae.

Col. No. K1846. Thirty-nine km. southwest of Ankara.

253225. ALLIUM sp.

Col. No. K1852. Six km. southeast of Polatli.

253226 to 253228. CICER ARIETINUM L. Fabaceae. **Chickpea.**

253226. Col. No. K1864. Eskisehir bazaar.

253227. Col. No. K1886. Bursa bazaar.

253228. Col. No. K1887. Bursa bazaar.

253229. LACTUCA SALIGNA L. Cichoriaceae.

Col. No. K1808. Eleven km. east of Ankara, Cerikli road. Plants to 1.5 meters high.

253230. LACTUCA SERRIOLA L.

Col. No. K1856. Six km. southeast of Polatli.

253231. AMHERSTIA NOBILIS Wall. Caesalpiniaceae.

From the British West Indies. Plant collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 27, 1958.

Col. No. 102. St. Augustine Nurseries, Trinidad. Rare ornamental tree.

253232 to 253236.

From the Netherlands. Plants and scions presented by the Instituut voor de Veredeling van Tuinbouwgewassen, Wageningen. Received Oct. 27, 1958.

253232 to 253235. FRAGARIA VESCA L. Rosaceae. **European strawberry.** Plants.

253232. 'Jucunda'.

253233. 'Juspa'.

253234. 'Mme. Moutot'.

253235. 'Vicomtes' ('Herigard de Thury').

253236. RIBES SATIVUM Syme. Grossulariaceae. **Garden currant.**

'Rondom'. Scions.

253237 and 253238.

From Australia. Seeds presented by W. J. Bisset, Leichardt District, Capella, New South Wales. Received Oct. 27, 1958.

253237. GLYCINE FALCATA Benth. Fabaceae.

Q310. Of interest because of its seed burying characteristics.

253238. GLYCINE TOMENTOSA Benth.

Q311.

253239 to 253271.

From the Union of South Africa. Seeds presented by the Department of Agriculture, Division of Crops and Pastures, Pretoria, Transvaal. Received Oct. 27, 1958.

253239. BRACHIARIA NIGROPEDATA (Munro) Stapf. Poaceae.

CP 58/386.

253240 to 253257. PANICUM COLORATUM L. Poaceae.

253240. CP 58/401.
253241. CP 58/402.
253242. CP 58/403.
253243. CP 58/404.
253244. CP 58/405.
253245. CP 58/406.
253246. CP 58/407.
253247. CP 58/408.
253248. CP 58/409.
253249. CP 58/410.
253250. CP 58/411.
253251. CP 58/412.
253252. CP 58/413.
253253. CP 58/414.
253254. CP 58/415.
253255. CP 58/416.
253256. CP 58/417.
253257. CP 58/418.

253258 to 253271. CENCHRUS CILIARIS L. Poaceae. **Buffelgrass.**

253258. CP 58/387.
253259. CP 58/388.
253260. CP 58/389.
253261. CP 58/390.
253262. CP 58/391.
253263. CP 58/392.
253264. CP 58/393.
253265. CP 58/394.
253266. CP 58/395.
253267. CP 58/396.
253268. CP 58/397.
253269. CP 58/398.
253270. CP 58/399.
253271. CP 58/400.

253272 to 253278.

From Israel. Seeds presented by the Department of Agriculture, Soil Conservation Service, Akiria, Tel Aviv. Received Oct. 27, 1958.

253272. HORDEUM BULBOSUM L. Poaceae. **Bulbous barley.**

253273. ORYZOPSIS COERULESCENS (Desf.) Hack. Poaceae. **Ricegrass.**

253274. ORYZOPSIS HOLCIFORMIS (Bieb.) Hack. **Ricegrass.**

253275 and 253276. ORYZOPSIS MILIACEA (L.) Benth. & Hook. ex Aschers. & Schweinf **Smilograss.**

253275. No. 1.

253276. No. 2.

253277 and 253278. PHALARIS AQUATICA L. **Large canarygrass.**

253277. No. 1.

253278. No. 2.

253279 to 253287.

From Turkey. Seeds collected from P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 28, 1958.

253279. CENTAUREA sp. Asteraceae.

Col. No. K1816. Forty-nine km. east of Ankara.

253280. CENTAUREA sp.

Col. K1845. Thirty-nine km. southwest of Ankara. Plant to 30 cm. high.

253281. CENTAUREA sp.

Col. No. K1855. Six km. southeast of Polatti. Plant to six cm. high; flowers yellow.

253282. CENTAUREA sp.

Col. No. K1859. Four km. east of Sivrihisar. Flowers purple.

253283. DIPSACUS sp. Dipsacaceae.

Col. No. K1823. Seven km. northeast of Sungurlu. Plant to two meters high.

253284. GLAUCIUM CORNICULATUM (L.) Curtis Papaveraceae.

Col. No. K1809. Eleven km. east of Ankara, on road to Cerikli.

253285. NIGELLA sp. Ranunculaceae.

Col. No. K1829. Twenty-four km. northeast of Sungurlu. Plant to 50 cm. high; flowers white.

253286 and 253287. PAPAVER SOMNIFERUM L. Papaveraceae. **Opium poppy.**

253286. Col. No. K1834. Amasya bazaar. Flowers purple.

253287. Col. No. K1835. Amasya bazaar. Seeds white.

253288. PUERARIA MIRIFICA Shaw & Sav. Fabaceae.

From Thailand. Tubers presented by the Department of Agriculture, Bangkok. Received Oct. 28, 1958.

This species may contain estrogenic acid.

253289. PINUS NIGRA Arnold Pinaceae. **Austrian pine.**

From Yugoslavia. Seed presented by the Agrariacoop Seed House, Zagreb. Received Oct. 28, 1958.

253290 to 253324.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 28, 1958.

253290. AGROPYRON CANINUM (L.) Beauv. Poaceae. **Awned wheatgrass.**

Col. No. 17443. Meadow 20 miles south of Ljubljana, Slovenia. Elevation 1,750 feet. Plants tall, spindly; culms leafy.

253291. BOTHRIOCHLOA ISCHAEMUM (L.) Keng Poaceae. **King's Ranch bluestem.**

Col. No. 17490. Roadside, Sara River Valley, Serbia, 45 miles west of Belgrade. Elevation 500 feet. Scattered colony; crown leafy.

253292 to 253294. ARRHENATHERUM ELATIUS (L.) Presl Poaceae. **Tall oatgrass.**

253292. Col. No. 17460. Twelve miles northwest of Ljubljana, Slovenia. Elevation 1,200 feet.

253293. Col No. 17473. Jasenice, Slovenia. Elevation 1,900 feet. Plants to six inches high. Seeds from vigorous leafy clump.

253294. Col. No. 17476. Jasenice, Slovenia. Elevation 1,900 feet. Seeds from one clump.

253295. ASTRAGALUS ANGUSTIFOLIUS Lam. Fabaceae.

Col. No. 17487. Near Bijeljina, Bosnia. Perennial herb to four feet high; stems long.

253296 and 253297. AVENA SATIVA L. Poaceae. **Common oats.**

253296. Col. No. 17481. Vlasic Plannina, Bosnia. Elevation 4,000 feet. Old variety.

253297. Col. No. 17483. Mrkonjic Grad, Bosnia. Elevation 2,700 feet.

253298. BRACHYPODIUM PINNATUM (L.) Beauv. Poaceae. **Japanese falsebrome.**

Col. No. 17433. Predjama, Slovenia. Elevation 1,700 feet..

253299. BROMUS RAMOSUS Huds. Poaceae.

Col. No. 17428. Arboretum Volcji Potok, Ljubljana. Elevation 1,200 feet. Perennial, under trees.

253300 and 253301. BROMUS ERECTUS Huds. **Meadow brome.**

253300. Col. No. 17462. Bled, Slovenia. Elevation 1,700 feet. Tufted perennial on poor soil.

253301. Col. No. 17479. Jasenice, Slovenia. Elevation 1,900 feet. Hydrophytic perennial.

253302. CYNODON DACTYLON (L.) Pers. Poaceae. **Bermudagrass.**

Col. No. 17491. Sara River Valley, Serbia. Elevation 500 feet. Plants vigorous, coarse, large-leaved, cold-hardy forage type.

253303 and 253304. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

253303. Col. No. 17442. About 25 miles south of Ljubljana, Slovenia. Elevation 1,750 feet. Cold-hardy hydrophyte.

253304. Col. No. 17477. Jasenice, Slovenia. Elevation 1,900 feet.

253305. FESTUCA GIGANTEA (L.) Vill. Poaceae. **Great fescue.**

Col. No. 17471. Jasenice, Slovenia. Elevation 1,900 feet. Perennial; leaves long.

253306. FESTUCA PUNGENS Vahl

Col. No. 17429. Arboretum Voleji Potok, Ljubljana. Elevation 1,200 feet. Ornamental.

253307 and 253308. FESTUCA RUBRA L. **Red fescue.**

253307. Col. No. 17469. Jasenice, Slovenia. Elevation 1,900 feet.

253308. Col No. 17470. Jasenice, Slovenia. Elevation 1,900 feet. Plant leafy, leaves wire-thin, long.

253309. FESTUCA sp.

Col. No. 17434. Predjana, Slovenia. Elevation 1,700 feet. Perennial; leaves long.

253310. FESTUCA RUBRA var. HETEROPHYLLA (Lam.) Mutel **Shade fescue.**

Col. No. 17466. Jasenice, Slovenia. Elevation 1,900 feet.

253311. FESTUCA ARUNDINACEA Schreb. **Tall fescue.**

Col. No. 17468. Jasenice, Slovenia. Elevation 1,900 feet. Perennial, growing in thick mat.

253312 and 253313. HORDEUM VULGARE L. Poaceae. **Common barley.**

253312. Col. No. 17480. Vlasic Plannina, Bosnia. Elevation 4,000 feet. Two-rowed brewers' barley.

253313. Col. No. 17485. Mrkonjic Grad, Bosnia. Elevation 2,700 feet.

253314 to 253317. PHALARIS ARUNDINACEA L. Poaceae. **Reed canarygrass.**

253314. Col. No. 17439. About 25 miles south of Ljubljana, Slovenia. Elevation 1,750 feet. A vigorous colony in wet meadow lands.

253315. Col. No. 141. Slovenia.

253316. Col. No. 143. Slovenia.

253317. (No note.)

253318. TRIFOLIUM CAMPESTRE Schreb. Fabaceae. **Large hop clover.**

Col. No. 17422. Twenty-one miles north of Rijeka, Slovenia. Elevation 1,500 feet.

253319 to 253321. TRIFOLIUM PRATENSE L. **Red clover.**

253319. Col. No. 17437. Predjama, Slovenia. Elevation 1,700 feet.

253320. Col. No. 17465. Jasenice, Slovenia. Elevation 1,900 feet.

253321. Col. No. 17482. Vlasic Plannina, Bosnia. Elevation 5,000 feet.

253322 and 253323. TRIFOLIUM REPENS L. **Whiteclover.**

253322. Col. No. 17432. Predjama, Slovenia. Elevation 1,700 feet.

253323. Col. No. 17461. Ten miles southeast of Bled, Slovenia. Elevation 1,450 feet.

253324. TRITICUM DICOCCUM Schrank Poaceae. **Emmer.**

Col. No. 17484. Mrkonjic Grad, Bosnia. Elevation 2,800 feet.

253325 and 253326.

From Singapore. Plant and cuttings collected by W. H. Hodge, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 28, 1958.

253325. GRAMMATOPHYLLUM SPECIOSUM Blume Orchidaceae. **Orchid.**

(Plant.)

253326. RHODODENDRON JAVANICUM (Blume) Benn. Ericaceae.

(Cuttings.)

253327 to 253331. SACCHARUM (hybrids). Poaceae. Sugarcane.

From the British West Indies. Cuttings presented by the British West Indies Central Sugar Cane Breeding Station, Barbados. Received Oct. 30, 1958.

253327. B–52107.

253328. B–52222.

253329. B–52298.

253330. B–52313.

253331. B–52321.

253332 and 253333. PRUNUS ARMENIACA L. Amygdalaceae. **Apricot.**

From the Union of Soviet Socialist Republics. Trees collected in U.S.S.R. Received Oct. 30, 1958.

253332. No. 1. Cultivated type.

253333. No. 2. Manchurian apricot seedling.

253334 to 253346.

From Morocco. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 30, 1958.

253334. BRACHYPODIUM DISTACHYON (L.) Beauv. Poaceae. **Purple falsebrome.**

Col. No. K2030. Seventeen miles northwest of Ougda. Plants to 12 inches high.

253335. BOTHRIOCHLOA INTERMEDIA (R. Br.) A. Camus Poaceae.

Col. No. K2041. Eleven miles north of Berkane. Plant to 36 inches high.

253336. BRACHYPODIUM sp. Poaceae.

Col. No. K2028. Seventeen miles northwest of Ougda. Plants to 20 inches high.

253337. BROMUS MOLLIS L. Poaceae. **Soft chessgrass.**

Col. No. K2029. Seventeen miles northwest of Ougda.

253338. LAGURUS OVATUS L. Poaceae. **Rabbittail grass.**

Col. No. K2053. Five miles north of Heliua. Plants to 12 inches high.

253339. ORYZOPSIS COERULESCENS (Desf.) Hack. Poaceae. **Ricegrass.**

Col. No. K2019. Twenty-eight miles southwest Ougda. Plant to 40 inches high.

253340 to 253343. ORYZOPSIS MILIACEA (L.) Benth. & Hook. ex Aschers & Schweinf. **Smilograss.**

253340. Col. No. K2014. Eighteen miles southwest of Ougda.

253341. Col. No. K2026. Twenty-eight miles southwest of Ougda.

253342. Col. No. K2031. Seventeen miles northwest of Ougda.

253343. Col. No. K2042. Eleven miles north of Berkane.

253344. STIPA sp. Poaceae.

Col. No. K2016. Twenty-eight miles southwest of Ougda. Plants to 24 inches high.

253345 and 253346. TRIFOLIUM ANGUSTIFOLIUM L. Fabaceae. **Clover.**

253345. Col. No. K2033. Seventeen miles northwest of Ougda. Plants to 12 inches high.

253346. Col. No. K2043. Eleven miles north of Berkane. Plant to eight inches high.

253347 to 253428.

From Spain and Israel. Seeds collected by P. F. Knowles, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 31, 1958.

From Spain unless otherwise noted.

253347. AVENA SATIVA L. Poaceae. **Common oats.**

Col. No. 2103. Elche bazaar.

253348 and 253349. CARTHAMUS ARBORESCENS L. Asteraceae.

253348. Col. No. 2104. Eighteen km. northeast of Murcia on road to Alicante.

253349. Col. No. 2109. Sixteen km. north of Malaga.

253350 and 253351. CARTHAMUS BAETICUS Nym.

253350. Col. No. 2110. Fifteen km. north of Malaga, on Highway N–321.

253351. Col. No. 2113. Ten km. southeast of Antequera.

253352 to 253355. CARTHAMUS GLAUCUS Bieb.

253352. Col. No. 1970. West of Jordan River, in hills near Havat Shemuel, Israel.

253353. Col. No. 1976. One km. north of Tiberias, Sea of Galilee, Israel. Plant to 72 cm. high.

253354. Col. No. 1978. Capernaum, Sea of Galilee, Israel.

253355. Col. No. 1986. Nazareth-Tiberias highway, four km. east of Golam Intersection, Israel.

253356 to 253368. CARTHAMUS LANATUS L.

253356. Col. No. 2067. Outskirts of Madrid. Plants to 60 cm. high.

253357. Col. No. 2074. Four km. southeast of Cuenca, on Teruel road.

253358. Col. No. 2075. Thirty-eight km. southeast of Cuenca, on Teruel road.

253359. Col. No. 2078. Four km. north of Santa Cruz de Maya.

253360. Col. No. 2079. Ten km. southwest of Teruel.

253361. Col. No. 2085. One hundred twenty-six km. southeast of Madrid.

253362. Col. No. 2089. One km. southeast of La Roda.

253363. Col. No. 2096. Five km. east of Elche.

253364. Col. No. 2105. East of Baza.

253365. Col. No. 2106. Five km. west of Granada.

253366. Col. No. 2107. Fifty-eight km. northeast of Malaga.

253367. Col. No. 2111. Malaga Airport.

253368. Col. No. 2114. Eleven km. east of La Roda.

253369 to 253383. CARTHAMUS TENUIS (Boiss. & Blanche.) Bornm.

253369. Col. No. 1949. Sarafend, Tel Aviv-Jerusalem highway, Israel.

253370. Col. No. 1950. Isoova, Israel.

253371. Col. No. 1952. Jerusalem-Tel Aviv highway, Israel.

253372. Col. No. 1963. Nir Ain, Israel.

253373. Col. No. 1965. Coast highway opposite Zikim, Israel.

253374. Col. No. 1966. Coast highway, opposite Zikim, Israel. Internodes and bracts short.

253375. Col. No. 1967. Eight km. south of Beersheba, Israel.

253376. Col. No. 1968. Nevatim, east of Beersheba.

253377. Col. No. 1969. Coast highway near Shtoolim, Israel.

253378. Col. No. 1972. Two km. east of Bot Shlomo, Israel.

253379. Col. No. 1980. Bellevue Hotel, south of Nazareth, Israel.

253380. Col. No. 1987. Four km. east of Golam intersection, Nazareth-Tiberias highway, Israel.

253381. Col. No. 1989. Four km. east of Golam intersection, Nazareth-Tiberias highway, Israel.

253382. Col. No. 2005. West of Haifa, Israel.

253383. (No field number.) Two km. north of Eilabun, Israel.

253384 to 253396. CARTHAMUS TINCTORIUS L. **Safflower.**

253384. Col. No. 1962. Abu-Ghosh, 14 km. west of Jerusalem, Israel. Spineless.

253385. Col. No. 1983. Nazareth, Israel. Plant to 70 cm. high.

253386. Col. No. 1984. Reina, northeast of Nazareth, Israel. Plants to 60 cm. high.

253387. Col. No. 1985. Kafer Kana, northeast of Nazareth, Israel. Plants to 60 cm. high.

253388 to 253391. Jefatura Agronomica, Cuenca.

253388. Col. No. 2068.

253389. Col. No. 2069.

253390. Col. No. 2070.

253391. Col. No. 2071. Plants to 40 cm. high; heads one cm. in diameter; flowers orange.

253392. Col. No. 2072. Ademuz, 45 km. south of Teruel.

253393. Col. No. 2073. Santa Cruz de Maya.

253394. Col. No. 2090. Alicante seed store.

253395. Col. No. 2097. Elche seed store.

253396. Col. No. 2098. Elche seed store.

253397. CARTHAMUS sp.

Col. No. 1998. West of Safed, Israel.

253398. CARTHAMUS sp.

Col. No. 1999. Four km. west of Safed, Israel.

253399. CARTHAMUS sp.

Col. No. 2000. Ten km. west of Safed, Israel.

253400. CARTHAMUS sp.

Col. No. 2001. Fifteen km. west of Safed, Israel.

253401. CARTHAMUS sp.

Col. No. 2002. Nineteen km. west of Safed, Israel.

253402. CARTHAMUS sp.

Col. No. 2003. Near Pekiin, Israel.

253403. CARTHAMUS sp.

Col. No. 2004. Ben Ami, Israel. Bracts appear slightly shorter and wider than typical *C. tenuis*.

253404. CARTHAMUS (hybrid).

Col. No. 1988. Nazareth-Tiberias highway, four km. east of Golam intersection, Israel.

253405. CARTHAMUS (hybrid).

Col. No. 1991. Two km. north of Eilabun, Israel.

253406. CARTHAMUS (hybrid).

Col. No. 1992. Two km. north of Eilabun, Israel.

253407. CARTHAMUS (hybrid).

Col. No. 1993. Two km. north of Eilabun, Israel.

253408. CARTHAMUS (hybrid).

Col. No. 1994. North of Merar, Israel.

253409 and 253410. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

253409. Col. No. K1954. Watchtower near Har'el, Israel.

253410. Col. No. K1959. Below Hadassa Hospital, west of Jerusalem, Israel.

253411 to 253413. DACTYLIS GLOMERATA var. HISPANICA (Roth) Duby

253411. Col. No. K1997. East of Safed, Israel. Plants to 24 inches high.

253412. Col. No. K2077. Twenty-six miles southeast of Cuenca, Teruel road.

253413. Col. No. K2082. Twelve miles southwest of Teruel. Plants to 18 inches high.

253414 to 253418. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

253414. Col No. K1961. Jerusalem market, Israel.

253415. Col. No. K1982. Nazareth bazaar, Israel.

253416. Col. No. K2088. Sixty miles southeast of Madrid, Valencia road.

253417. Col. No. K2091. Alicante seed store.

253418. Col. No. K2102. Elche seed store.

253419. LOTUS CORNICULATUS L. Fabaceae. **Birdsfoot trefoil.**

Col. No. K2087. Seventy-eight miles southeast of Madrid on Valencia road.

253420. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

Col. No. K2084. Twelve miles southwest of Teruel.

253421. PANICUM MILIACEUM L. Poaceae. **Proso millet.**

Col. No. K2092. Alicante seed store.

253422. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

Col. No. K1977. One mile north of Tiberias, Sea of Galilee, Israel.

253423 and 253424. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

253423. Col. No. K1960. Jerusalem market, Israel.

253424. Col. No. K1981. Nazareth bazaar, Israel.

253425. VICIA FABA L. Fabaceae. **Broadbean.**

Col. No. K2094. Alicante seed store.

253426 and 253427. VICIA SATIVA L. **Common vetch.**

253426. Col. No. K2093. Alicante seed store.

253427. Col. No. K2100. Elche seed store.

253428. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. K2099. Elche seed store.

253429. FRAGARIA CHILOENSIS Duchesne Rosaceae. **Chiloe strawberry.**

From Great Britain. Plants presented by the Scottish Horticultural Research Institute, Mylnefield, Invergowrie, by Dundee, Scotland. Received Nov. 3, 1958.

'Auchincruive No. 11'; 'Ananassa'.

253430 to 253462.

From Yugoslavia and Italy. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received No. 3, 1958.

Collected in Yugoslavia unless otherwise noted.

253430. AGROPYRON INTERMEDIUM (Host) Beauv. Poaceae. **Intermediate wheatgrass.**

Col. No. 17445. Koper, Slovenia. Elevation 60 feet. Tall, caney perennial.

253431. AGROPYRON REPENS (L.) Beauv.

Col. No. 17472. Jasenice, Slovenia. Elevation 1,900 feet. Perennial.

253432. AMPELODESMA MAURITANICA (Poir.) Dur. & Schinz Poaceae.

Col. No. 17526. Thirty miles northeast of Rome, Italy. Large, coarse, harsh, unpalatable, xerophytic bunch grass.

253433. ANTHYLLIS VULNERARIA L. Fabaceae. **Kidneyvetch.**

Col. No. 17456. Twelve miles northwest of Ljubljana, Slovenia. Perennial to 15 inches high.

253434. ASTRAGALUS sp. Fabaceae.

Col. No. 17464. Dry meadow slope, 10 miles southeast of Bled, Slovenia. Elevation 1,450 feet. Plants spreading, decumbent, leafy.

253435. CORONILLA sp. Fabaceae.

Col. No. 17450. Dry slope, Koper, Slovenia. Elevation 100 feet. Fine-stemmed leafy perennial to three feet high.

253436. TRISETUM FLAVESCENS (L.) Beauv. Poaceae.

Col. No. 17458. Twelve miles northwest of Ljubljana, Slovenia. Elevation 1,200 feet. Perennial; crown and culms leafy.

253437. DORYCNIUM GERMANICUM Rouy Fabaceae.

Col. No. 17431. Predjama, Slovenia. Elevation 1,700 feet. Erect, cespitose perennial to one foot high; flowers white; aromatic. Used for ground cover.

253438. FESTUCA ARUNDINACEA Schreb. Poaceae. **Tall fescue.**

Col. No. 17467. Jasenice, Slovenia. Elevation 1,900 feet.

253439. LATHYRUS sp. Fabaceae.

Col. No. 17441. Twenty-five miles south of Ljubljana, Slovenia. Elevation 1,750 feet. Hardy hydrophytic perennial; flowers yellow.

253440. LOTUS CORNICULATUS var. CILIATUS (Tenore) C. Koch Fabaceae. **Birdsfoot trefoil.**

Col. No. 17440. Twenty-five miles south of Ljubljana, Slovenia. Hardy, self-seeding perennial.

253441 and 253442. LOTUS PEDUNCULATUS Cav. **Big trefoil.**

253441. Col. No. 17423. Ljubljana, Slovenia. Elevation 1,000 feet. Perennial to three feet high.

253442. Col. No. 17493. From Agricultural Instituto, Banja Luka, Bosnia.

253443. MEDICAGO FALCATA L. Fabaceae. **Yellow-flowered alfalfa.**

Col. No. 17438. Predjama, Slovenia. Elevation 1,700 feet. Decumbent perennial.

253444. MEDICAGO SATIVA L. **Alfalfa.**

Col. No. 17447. Koper, Slovenia. Elevation 100 feet. Cespitose xerophytic perennial; flowers coppery green to yellow.

253445. MEDICAGO FALCATA L. **Yellow-flowered alfalfa.**

Col. No. 17463. Ten miles southeast of Bled, Slovenia. Elevation 1,450 feet. Spreading perennial.

253446. MEDICAGO CARSTIENSIS Wulf. **Medic.**

Col. No. 17419. University Botanical Garden, Ljubljana, Slovenia. Elevation 1,000 feet. A hardy, drought-resistant, rhizomatous perennial; stems leafy, erect, to two feet high. Endemic to the Karst area.

253447. MEDICAGO LUPULINA L. **Black medic.**

Col. No. 17425. Ljubljana, Slovenia. Elevation 1,000 feet.

253448. MEDICAGO MUREX Willd.

Col. No. 17427. University Botanical Garden, Ljubljana, Slovenia. Biennial with several leafy stems; decumbent at maturity.

253449 and 253450. MEDICAGO PIRONAE Vis. **Medic.**

253449. Col. No. 17430. University Botanical Garden, Ljubljana, Slovenia. Elevation 1,000 feet. Hardy and long-lived rhizomatous perennial, forming a small rounded bush to 15 inches high.

253450. Col. No. 17452. Sweta Gora near Gorica, Slovenia. Elevation 1,700 feet. Rhizomatous perennial forming wide-spreading thickets.

253451. MEDICAGO SATIVA L. **Alfalfa.**

Col. No. 17455. Rocky ground near Gorica, Slovenia. Elevation 1,700 feet. Spontaneous.

253452. MEDICAGO sp.

Col. No. 17451. Bluff above the beach, Koper, Slovenia. Elevation 15 feet. Spontaneous.

253453. MELICA CILIATA L. Poaceae.

Col. No. 17435. Rocky slopes, Predjama, Slovenia. Elevation 1,700 feet. Ornamental perennial grass.

253454. MELILOTUS ALBA Desr. Fabaceae. **White sweetclover.**

Col. No. 17489. Sava River Valley, Serbia. Elevation 500 feet.

253455. POA sp. Poaceae.

Col. No. 17364. Kupres Valley, Bosnia. Elevation 3,800 feet. Perennial; leaves long, tender, wiry.

253456. SANGUISORBA sp. Rosaceae.

Col. No. 17449. Along dry slope, Koper, Slovenia. Elevation 50 feet. Perennial.

253457. SESBANIA sp. Fabaceae.

Col. No. 17420. Fourteen miles east of Rijeka. Elevation 3,000 feet. Small, leafy perennial; stems to 15 inches.

253458. TETRAGONOLOBUS SILIQUOSUS (L.) Roth Fabaceae.

Col. No. 17478. Jasenice, Slovenia. Elevation 1,900 feet. Perennial; stems decumbent.

253459. VICIA sp. Fabaceae.

Col. No. 17421. Twenty miles north of Rijeka, Slovenia. Elevation 1,500 feet. Fine-leaved perennial bush.

253460. VICIA sp.

Col. No. 17424. Ljubljana, Slovenia. Elevation 1,000 feet.

253461. VICIA sp.

Col. No. 17436. Predjama, Slovenia. Elevation 1,700 feet. Erect, leafy, glaucous perennial to three feet high.

253462. VICIA sp.

Col. No. 17475. Jasenice, Slovenia. Elevation 1,900 feet. Climbing annual; flowers purple.

253463 to 253466.

From Israel, Morocco, Portugal and Spain. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 5, 1958.

253463. ALLIUM sp. Liliaceae.

Col. No. K1971. Hills west of Jordan River, near Havat Shemuel, Israel. Plant to 30 inches high.

253464. ALLIUM sp.

Col. No. K2013. Five miles southwest of Ougda, Morocco. Plants to 15 inches high.

253465. ALLIUM sp.

Col. No. K2118. Six miles north of Ferreira do Alentejo, Portugal. Plant to 30 inches high.

253466. CICER ARIETINUM L. Fabaceae. **Chickpea.**

Col. No. K2095. Seed store, Alicante, Spain.

253467 to 253470.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received November 5, 1958.

253467 and 253468. LACTUCA SERRIOLA L. Cichoriaceae.

253467. Col. No. 17448. Koper, Slovenia. Elevation 50 feet.

253468. Col. No. 17457. Twelve miles northwest of Ljubljana, Slovenia. Elevation 1,200 feet.

253469. PHYSALIS sp. Solanaceae.

Col. No. 17486. Near Bijeljina, Bosnia. Herb with bright orange calyces.

253470. PRUNUS sp. Amygdalaceae.

Col. No. 17453. Dry rocky mountains near Gorica, Slovenia. Elevation 1,700 feet. Shrub.

253471 to 253473.

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received November 5, 1958.

253471. CARTHAMUS OXYACANTHA Bieb. Asteraceae.

253472 and 253473. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

253472. N. P. 3.

253473. N. P. 6.

253474. CARYOTA URENS L. Phoenicaceae. **Toddy palm.**

From Brazil. Plants collected by Llewelyn Williams, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received November 5, 1958.

Col No. 18507. Instituto Botanico, Campinas, Sao Paulo. Collected in March 1958. Tree to 50 feet high with dense fronds: fruits dark brown, clustered.

253475 to 253478. SIMMONDSIA CHINENSIS (Link) C. Schneid. Buxaceae. **Jojoba.**

From Mexico and the United States. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 6, 1958.

From Baja California, Mexico, unless otherwise indicated.

253475. Col. No. 16376. 'Aquanga'. Shrub symmetrical. 1.7 meters high by 2.5 meters broad; second growth following fire, 30 years old; leaves large, numerous; flowers at every node; seeds from one plant.

253476. Col. No. 16749. 'Santo Toms'. Low, bushy shrub with short twigs; seeds from a local population having 10 to 20% of their capsules in clusters.

253477. Col. No. 16820. Camp Creek, Arizona. Shrub to 2.5 meters high; capsules large, one-seeded freely dehiscing when mature; seeds from one plant.

253478. Col. No. 16830. Camp Creek, Arizona. Shrub to 2.3 meters high; new shoots flowering at every node; capsules few, elliptic, smooth, large freely splitting; seeds russet colored.

253479 to 253488.

From Turkey, Spain, and Morocco. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 6, 1958.

253479. CENTAUREA sp. Asteraceae.

Col. No. K1818. Forty-nine km. east of Ankara, Turkey.

253480. CENTAUREA sp.

Col. No. K2010. Eight km. southwest of Ougda, Morocco. Plants to 22.5 cm. high.

253481. CENTAUREA sp.

Col. No. K2011. Eight km. southwest of Ougda, Morocco.

253482. CENTAUREA sp.

Col. No. K2023. Ten km. northeast of Ougda, Morocco.

253483. CENTAUREA sp.

Col. No. K2024. Ten km. northeast of Ougda, Morocco. Plants to 60 cm. high.

253484. CENTAUREA sp.
Col. No. K2035. Twenty-seven km. northwest of Ougda, Morocco.

253485. CENTAUREA sp.

Col. No. K2036. Twenty-seven km. northwest of Ougda, Morocco. Plant six dm. high.

253486. CENTAUREA sp.

Col. No. K2076. Thirty-eight km. southeast of Cuenca, Tervel road, Spain. Plants to four dm. high.

253487. IRIS RETICULATA Bieb. Iridaceae,

Col. No. K2018. Forty-three km. southwest of Ougda, Morocco. Plants to three dm. high.

253488. XERANTHEMUM ANNUUM L. Asteraceae.

Col. No. 1828. Twenty-four km. northeast of Sungurlu, Turkey. Plants to 30 cm. high; bracts purple.

253489 to 253493.

From Italy, Austria, and Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 6, 1958.

253489. CERASTIUM sp. Silenaceae.

Col. No. 17534. Terminillo, Italy. Elevation 5,200 feet. Perennial forming dense matlike cover suitable for holding bank.

253490. HYOSCYAMUS NIGER L. Solanaceae.

Col. No. 17541. Terminillo, Italy. Elevation 5,200 feet. Perennial to four feet high.

253491. SAPONARIA OFFICINALIS L. Silenaceae. **Bouncing-bet.**

Col. No. 17566. River Amo, Florence, Italy. Perennial rhizomatous herb to one foot high; flowers lavender, in panicles.

253492. SORBUS sp. Malaceae.

Col. No. 17518. Along highway, near Eisenerz, Austria. Elevation 1,200 feet. Ornamental tree; berries bright orange-red.

253493. (Undetermined.) Menthaceae.

Col. No. 17474. Jasenice, Slovenia, Yugoslavia. Elevation 1,900 feet. Perennial herb forming a matlike cover on higher ground. Hardy.

253494 to 253499. SETARIA ITALICA (L.) Beauv. Poaceae. **Foxtail millet.**

From India and Afghanistan. Selections made at the Regional Plant Introduction Station, Ames, Iowa. Numbered Nov. 6, 1958.

From mixtures received in 1951 and 1954.

253494. Selection from P. I. 198153, from India, 1951.

253495. Selection from P. I. 220024, from Afghanistan, 1954.

253496. Selection from P. I. 220392, from Afghanistan, 1954.

253497. Selection from P. I. 220535, from Afghanistan, 1954.

253498. Selection from P. I. 220536, from Afghanistan, 1954.

253499. Selection from P. I. 220812, from Afghanistan, 1954.

253500. CUCUMIS SATIVUS L. Cucurbitaceae. **Cucumber.**

From Pakistan. Seeds presented by the Military Assistance Advisory Group, Army Training Mission, Pakistan. Received Nov. 6, 1958.

'Kabul'. Grown around Jalalabad, Afghanistan.

253501 to 253585.

From Europe and Asia. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 6, 1958.

Localities given are places where collected.

253501. AVENA sp. Poaceae.

Col. No. K1990. Nazareth-Tiberias highway, 4.1 km. east of Golam intersection, Israel. Heads may be resistant to shattering.

253502. BRACHYPODIUM sp. Poaceae.

Col. No. K1957. Below Hadassa Hospital, west of Jerusalem, Israel.

253503. BRACHYPODIUM PHOENICOIDES (L.) Roem. & Schult.

Col. No. K2081. Twenty km. southwest of Teruel, Spain. Plants to eight dm. high; abundant.

253504. BROMUS MACROSTACHYS Desf. Poaceae. **Mediterranean brome.**

Col. No. K1951. Isoova, Israel.

253505. BROMUS SCOPARIS L.

Col. No. K1964. Nir Am, Israel.

253506 to 253509. CARTHAMUS LANATUS L. Asteraceae.

253506. Col. No. K2115. North of Seville, Spain, Merida road.

253507. Col. No. K2116. Forty-nine km. east of Beja, Portugal.

253508. Col. No. K2117. Ten km. north of Ferreira do Alentejo, Portugal.

253509. Col. No. K2121. Estacao Agronomica Nacional, Sacavem, Portugal.

253510 to 253571. CARTHAMUS TINCTORIUS L. **Safflower.**

253510 to 252517. From Germany botanic gardens.

253510. Col. No. K2122. Kassel, Bosetr.

253511. Col. No. K2123. Johannes Gutenberg University, Mainz.

253512. Col. No. K2124. Friedrich-Schiller University, Jena.

253513. Col. No. K2125. Eberswalde.

253514. Col. No. K2126. Marburg/L.

253515. Col. No. K2127. Technical High School, Dresden.

253516. Col. No. K2128. Wurzburg.

253517. Col. No. K2129. Klagenfurt.

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253518 to 253520. From Austrian botanic gardens.

253518. Col. No. K2130. Graz, Holt Eigasse 6.

253519. Col. No. K2131. High School, Vienna.

253520. Col. No. K2132. Vienna.

253521 to 253524. From Italy botanic gardens.

253521. Col. No. K2133. Rome.

253522. Col. No. K2134. Turin.

253523. Col. No. K2135. Modena.

253524. Col. No. K2136. Trieste.

253525. Col. No. K2137. Hanbury Botanic Garden, Geneva, Switzerland.

253526. Col. No. K2138. Villa Taranto Garden, Lake Maggiore, Italy.

253527 to 253530. From France.

253527. Col. No. K2139. Botanic Garden, Rouen.

253528. Col. No. K2140. Natural History Museum, Paris.

253529. Col. No. K2141. Botanic Garden, Nancy.

253530. Col. No. K2142. Botanic Garden, Dijon.

253531. Col. No. K2143. Sofia, Bulgaria.

253532. Col. No. K2144. Botanic Garden, Kontor Arhus, Denmark.

253533. Col. No. K2145. Botanic Garden, Barcelona, Spain.

253534. Col. No. K2146. Utrecht, Netherlands.

253535. Col. No. K2147. Royal Botanic Gardens, Kew, England.

253536. Col. No. K2148. Urbino, Italy.

253537. Col. No. K2149. Botanic Garden, Nanking, China.

253538. Col. No. K2150. Botanic Garden, Erevan, Armenia.

253539 to 253542. From Hungary.

253539. Col. No. K2151. Botanic Garden, Peos.

253540. Col. No. K2152. Botanic Garden, Szeged.

253541. Col. No. K2153. Agronomy Station, Budapest.

253542. Col. No. K2154. Botanical Academy of Science, Vacratot.

253543 to 253546. From Poland.

253543. Col. No. K2155. Botanic Garden, Bydgoszcz.

253544. Col. No. K2156. Botanic Garden, Lodz.

253545. Col. No. K2157. Pharmaceutical Garden, Stalingradzka.

253546. Col. No. K2158. Botanic Garden, Krakow.

253547. Col. No. K2159. Botanic Garden, Kamenetz, Soviet Union.

253548. Col. No. K2160. Botanic Garden, Copenhagen, Denmark.

253549 to 253559. From Estacao Agronomica Nacional, Sacavem, Portugal.

253549. Col. No. K2161.

253550. Col. No. K2162.

253551. Col. No. K2163.

253552. Col. No. K2164.

253553. Col. No. K2165.

253554. Col. No. K2166.

253555. Col. No. K2167.

253556. Col. No. K2168.

253557. Col. No. K2169.

253558. Col. No. K2170.

253559. Col. No. K2171.

253560. Col. No. K2172. Service de la Recherche Agronomique et de l'Experimentation Agricole, Rabat, Morocco.

253561. Col. No. K2173. Botanic Garden, Geneva, Switzerland.

253562 to 253571. From Portugal.

253562. Col. No. K2174. Estacao Agronomica, Sacavem.

253563. Col. No. K2175. Antonio de Sousa Padeiro, Tavira.

253564. Col. No. K2176. Near Sao Braz de Alportel Province of Algarve. Plant to 30 cm. high; spines reduced on upper leaves and bracts; flowers red.

253565. Col. No. K2177. Tavira, Province of Algarve, near Conceicao. Plant spineless; flowers red; rust on leaves.

253566. Col. No. K2178. Tavira, Province of Algarve, near Conceicao. Spines reduced on upper leaves and bracts, flowers red. Rust present.

253567. Col. No. K2179. Near Tavira, Province of Algarve. Plants with very few spines; flowers red.

253568. Col. No. K2180. Near Conceicao and Tavira, Province of Algarve. Plants spineless; bracts short, rounded.

253569. Col. No. K2181. Tavira, Province of Algarve.

253570. Col. No. K2182. Estacao Agronomica Nacional, Sacavem, Province of Algarve.

253571. Col. No. K2183. Estacao Agronomica Nacional, Sacavem, Algarve Province. Plant spineless; bracts short; flowers red.

253572. DACTYLIS GLOMERATA var. HISPANICA (Roth) Duby Poaceae.

Col. No. K2119. Ten km. north of Ferreira do Alentejo, Portugal. Plant to 30 cm. high.

253573. HORDEUM SPONTANEUM C. Koch Poaceae.

Col. No. K1958. Below Hadassa Hospital, west of Jerusalem, Israel.

253574. HORDEUM VULGARE L. **Common barley.**

Col. No. K1979. Capernaum, Sea of Galilee, Israel. Plant to 45 cm. high.

253575 and 253576. ORYZOPSIS COERULESCENS (Desf.) Hack. Poaceae. **Ricegrass.**

253575. Col. No. K1953. Watchtower, Har'el, Israel.

253576. Col. No. K1996. East of Safed, Israel. Plant to seven dm. high.

253577 and 253578. ORYZOPSIS MILIACEA (L.) Benth. & Hook. ex Aschers. & Schweinf. **Smilograss.**

253577. Col. No. K1948. East of Santa Sofya Museum, Istanbul, Turkey. Plant to five dm. high.

253578. Col. No. K1955. Watchtower, Har'el, Israel.

253579. PHALARIS PARADOXA L. Poaceae. **Hood canarygrass.**

Col. No. K1973. One km. north of Biberias, Sea of Galilee, Israel.

253580. POA PRATENSIS L. Poaceae. **Kentucky bluegrass.**

Col. No. K2083. Twenty km. southwest of Teruel, Spain. Plant to six dm. high.

253581. STIPA BROMOIDES (L.) Beck Poaceae.

Col. No. K1956. Near Ramat-Raziel, Israel.

253582. TRIFOLIUM ALEXANDRINUM L. Fabaceae. **Berseem clover.**

Col. No. K2101. Seed store, Elche, Spain.

253583. TRIFOLIUM PRATENSE L. **Red clover.**

Col. No. K2086. Valencia road, 126 km. southeast of Madrid, Spain.

253584. TRIFOLIUM PURPUREUM Loisel.

Col. No. K1974. One km. north or Tiberias, Sea of Galilee, Israel.

253585. TRIFOLIUM ANGUSTIFOLIUM L. **Clover.**

Col. No. K2120. Ten km. north of Ferreira do Alentejo, Portugal. Probably not palatable.

253586. FRAGARIA CHILOENSIS (L.) Duchesne Rosaceae.

Chiloe strawberry.

From Greece. Plants presented by the United States Embassy, Athens. Received November 7, 1958.

'Ananassa'. Grown at the State Seed Testing Station, Halandri, Attica.

253587 to 253621.

From Morocco. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 10, 1958.

253587 to 253589. CARTHAMUS BAETICUS Nym. Asteraceae.

253587. Col. No. K2052. Six km. south of Melilla.

253588. Col. No. K2054. Ten km. north of Melilla.

253589. Col. No. K2063. Below dam at Bin el Ouidane. Plant to seven dm. high.

253590 to 253593. CARTHAMUS CAERULEUS L.

253590. Col. No. K2007. Nursery at Institut Scientifique, Cherifien, Rabat.

253591. Col. No. K2037. Twenty-seven km. northwest of Ougda. Plant to 20 cm. high.

253592. Col. No. K2046. Seven km. northwest of Berkane. Plant to 20 cm. high.

253593. Col. No. K2049. Thirty-seven km. southeast of Melilla.

253594 to 253608. CARTHAMUS LANATUS L.

253594. Col. No. K2006. Institut Scientifique, Cerifien, Rabat.

253595. Col. No. K2008. Seven km. southwest of Ougda.

253596. Col. No. K2009. Five km. southwest of Ougda.

253597. Col. No. K2021. Forty-three km. southwest of Ougda.

253598. Col. No. K2025. Ten km. northeast of Ougda. Plant to 40 cm. high.

253599. Col. No. K2038. Algerian border, three km. north of Ahfiri.

253600. Col. No. K2047. Twenty km. west of Berkane.

253601. Col. No. K2055. Fifty-eight km. southwest of Nadar.

253602. Col. No. K2056. Eighty km. west of Ougda.

253603. Col. No. K2057. St. Jean de Fedala, main Casablanca-Rabat road.

253604. Col. No. K2060. Main Casablanca-Oued Zem road.

253605. Col. No. K2062. Main Bin el Ouidane road. Plant to 30 cm. high.

253606. Col. No. K2064. Two km. southwest and above dam, Bin el Ouidane.

253607. Col. No. K2065. Three km. west of Sidi Slunane.

253608. Col. No. K2066. Main S. Kacem-Meknes road.

253609. CARTHAMUS sp.

Col. No. K2045. Fifteen km. north of Berkane. Plant to 20 cm. high.

253610. CARTHAMUS sp.

Col. No. K2050. Fifteen km. southeast of Nador. Plants with long involucral bracts; heads somewhat clumped.

253611. CYNARA sp. Asteraceae.

Col. No. K2058. St. Jean de Fedala, Main Casablanca-Rabat road. Plants to 26 cm. high; head large.

253612 to 253615. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

253612. Col. No. K2015. Twenty-nine km. southwest of Ougda. Plants to eight dm. high.

253613. Col. No. K2017. Forty-three km. southwest of Ougda. Plants to seven dm. high.

253614. Col. No. K2032. Twenty-seven km. northwest of Ougda. Plants to 12 dm. high.

253615. Col. No. K2048. Seven km. west of Safsaf. Plants to four dm. high.

253616. DACTYLIS GLOMERATA var. HISPANICA (Roth) Duby

Col. No. K2059. Oued Nfifikh and main Casablanca-Rabat road. Plants to eight dm. high; heads large.

253617 and 253618. EBENUS PINNATA Ait. Fabaceae.

253617. Col. No. K2012. Pine grove eight km. southwest of Ougda.

253618. Col. No. K2027. Twenty-seven km. northwest of Ougda. Plants to 18 dm. high.

253619. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

Col. No. K2044. Fifteen km. north of Berkane.

253620 and 253621. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

253620. Col. No. K2039. One km. west of Saidia.

253621. Col. No. K2040. Eighteen km. north of Berkane.

253622 to 253628. CHENOPODIUM QUINOA Willd. Chenopodiaceae. **Quinoa.**

From Peru. Seeds presented by the United States Operations Mission, Lima. Received Nov. 10, 1958.

253622. 'Amarilla de Puno'.

253623. 'Blanca de Junin'.

253624. 'Blanca de Puno'.

253625. 'Concolla de Puno'.

253626. 'Real de Puno'.

253627. 'Rosada de Apurimac'.

253628. 'Rosada de Junin'.

253629 to 253646. SORGHUM BICOLOR (L.) Moench Poaceae.

From India. Seeds presented by the Rockefeller Foundation, New Delhi. Received Nov. 10, 1958.

253629. I.S. No. 1001. Gund. 13 S. A. 6462.

253630. I.S. No. 1002. Gund. 16 S. A. 6463.

253631. I.S. No. 1003. Gund. 28 S. A. 6466.

253632. I.S. No. 1004. Gund. 34 Rabi S. A. 6468 (1948).

253633. I.S. No. 1005. Gund. 34 Rabi S. A. 6478.

253634. I.S. No. 1006. Gund. 3 S.A. 6480.

253635. I.S. No. 1007. Gund. 5 India S. A. 6460–54.

253636. I.S. No. 1146. G.I. A.P. India.

253637. I.S. No. 1148. G.4. A.P. India.

253638. I.S. No. 1151. Aispuri. Bombay.

253639. I.S. No. 1152. Satpani. Bombay.

253640. I.S. No. 1808. Texas 660 (P.P.-Caprock). Texas.

253641. I.S. No. 1809. Nebraska R.S. 501. Nebraska.

253642. I.S. No. 1810. Dekalb 50A. Texas.

253643. I.S. No. 1812. Dekalb F56A. Texas.

253644. I.S. No. 2177. K–2. Cholam.

253645. I.S. No. 2178. K–3. Cholam.

253646. I.S. No. 2179. Co. 19. Cholam.

253647 to 253649. PRUNUS MAHALEB L. Amygdalaceae. **Mahaleb cherry.**

From Turkey. Seeds presented by T. C. Ziraat, Vekaleti, Ankara. Received Nov. 10, 1958.

253647. 'Idris'. Arifiye, Kocaeli Province.

253648. 'Sivah Mahaleb'. Horticultural Station, Tokat Province.

253649. 'Yellow Mahaleb'. Horticultural Station, Tokat Province.

253650 to 253666. GLYCINE MAX (L.) Merr. Fabaceae. **Soybean.**

From the Peoples Republic of China. Seeds collected by the Foreign Agricultural Service of the United States from steamships as indicated. Received Nov. 12, 1958.

253650. No. 1. SS Annenkirk.

253651. No. 2. SS Breconshire.

253652. No. 3. SS Farmsun.

253653. No. 4. SS Farmsun.

253654. No. 5. SS Glenfruin.

253655. No. 6. SS Glenfruin.

253656. No. 7. SS Glenfruin.

253657. No. 8. SS Glenfruin.

253658. No. 9. SS Greenwich.

253659. No. 10. SS Guchearn.

253660. No. 11. SS Moonie.

253661. No. 12. SS R. C. Rickmers.

253662. No. 13. SS Salmara.

253663. No. 14. SS Salmara.

253664. No. 15. SS Shanghai.

253665. No. 16. SS Telania.

253666. No. 17. SS Tungaha.

253667 to 253695.

From Great Britain. Plants purchased from Hillier & Sons, Winchester, Hants, England. Received Nov. 14, 1958.

253667 and 253668. ABIES CONCOLOR (Gord.) Hoopes Pinaceae. **White fir.**

253667. 'Candicans Prostrata'.

253668. 'Globe Compacta'.

253669. ABIES DELAVAYI Franch. **Fir.**

253670. ABIES FORRESTII Craib **Fir.**

253671. ABIES LASIOCARPA (Hook.) Nutt. **Fir.**

A compact form.

253672. ABIES LASIOCARPA var. ARIZONICA (Merriam) Lemm. **Fir.**

'Nana Compacta'.

253673. ABIES PROCERA Reder **Noble fir.**

'Glauca Prostrate'.

253674. ABIES SQUAMATA Masters **Fir.**

253675. ABIES × VILMORINII Masters ex Bean **Fir.**

(*A. cepalonica* × *A. pinsapo*).

253676. ATHROTAXIS SELAGINOIDES D. Don Pinaceae.

253677. COTONEASTER HORIZONTALIS Decaisne Malaceae. **Rock cotoneaster.**

'Variegata'.

253678. COTONEASTER sp.

253679. CUPRESSUS MACROCARPA Hartw. Pinaceae.

'Pendula'.

253680. CUPRESSUS TORTULOSA D. Don **Bhutan cypress.**

'Majestic'.

253681. ILEX CRENATA var. NUMMULARIA (Franch. & Sav.) Yatabe Aquifoliaceae. **Holly.**

253682. JUNIPERUS COMMUNIS L. Pinaceae. **Common juniper.**

'Echinaeformia'.

253683. JUNIPERUS VIRGINIANA L. **Eastern redcedar.**

'Pendula Nana'.

253684. LIBOCEDRUS BIDWILLII Hook. f. Pinaceae.

253685. LIBOCEDRUS DONNIANA Endl.

253686 and 253687. PICEA ABIES (L.) Karst. Pinaceae. **Norway spruce.**

253686. 'Excelsa Filicoides'.

253687. 'Gregoryana Parsonii'.

253688. PICEA BREWERIANA S. Wats. **Weeping spruce.**

253689. PICEA GLAUCA (Moench.) Voss. **White spruce.**

'Coerulea'.

253690. PINUS GERARDIANA Wall. Pinaceae. **Pine.**

253691. PINUS × HOLFORDIANA A. B. Jackson **Pine.**

(*P. ayacahuite* × *P. griffithii*).

253692. PINUS STROBUS L. **Eastern white pine.**

'Prostrate'.

253693. PINUS SYLVESTRIS L. **Scotch pine.**

'Cholla'.

253694. PSEUDOTSUGA JAPONICA (Shiras.) Beiss. Pinaceae. **Japanese Douglas-fir.**

253695. PSEUDOTSUGA MENZIESII (Mirb.) Franco **Douglas-fir.**

'Fretsii'.

253696 and 253697. GOSSYPIUM (hybrids). Malvaceae. **Cotton.**

From the Republic of the Sudan. Seeds presented by Dr. T. Dark, Shambat, Khartoum. Received Oct. 14, 1958.

253696. BAR 7/6.

253697. BAR 15/1.

253698. THEOBROMA CACAO L. Sterculiaceae. **Cacao.**

From Ghana. Budsticks presented by the West African Cocoa Research Institute, Tafo. Received Nov. 12, 1958.

Reported resistant to *Phytophthora* spp.

253699 to 253702. RHODODENDRON (hybrids). Ericaceae.

From Great Britain. Plants presented by Waterer Sons & Crisp, Ltd., Bagshot, Surrey, England. Received Nov. 13, 1958.

253699. 'Golden Hind'.

253700. 'Quaker Maid'.

253701. 'Royal Ruby'.

253702. 'Twlight Sky'.

253703 to 253710.

From Mexico. Tubers collected by J. G. Hawkes, Birmingham University, England, Plant Collection Expedition to Mexico. Received Nov. 17, 1958.

253703. SOLANUM BULBOCASTANUM Dun. Solanaceae.

Col. No. 1590. Near Oaxaca, Cerro San Felipe, Oaxaca.

253704 to 253710. SOLANUM TUBEROSUM L. **Potato.**

253704. Col. No. 1303. 'Vallera'. Bought at Vergel, Chihuahua. Reportedly grown in Vergel for years.

253705. Col. No. 1304. 'Chirulera'. Flowers white.

253706. Col. No. 1305. 'Chata'. Flowers purple.

253707. Col. No. 1534. Uruspan, Michoacan.

253708. Col. No. 1550. North slope of Nevado de Colima Sayulapa, Jalisco.

253709. Col. No. 1600. Market, Toluca, Mexico. Elevation 2,800 meters. Reportedly grown in San Juan de las Huertas.

253710. Col. No. 1670. Near Presa Pinta about three km. from Venta, Queretaro. Elevation 1,950 meters.

253711 and 253712. SOLANUM MURICATUM Ait. Solanaceae. **Pepino.**

From Peru. Seeds presented by the United States Operations Mission, Lima. Received Nov. 17, 1958.

253711. 'Pepino Dulce'. Tubers large, white.

253712. 'Pepino Dulce'. Tubers round, white. Usually propagated from cuttings.

253713. SOLANUM MURICATUM Ait. Solanaceae. **Pepino.**

From Chile. Seeds presented by the United States Operations Mission, Santiago. Received Nov. 17, 1958.

'Pepino Dulce'. Collected near La Serena, Coquimbo.

253714. CRATAEGUS AZAROLUS L. Malaceae. **Hawthorn.**

From Italy. Seeds presented by the Orto Botanico Dell'Universita, Naples. Received Nov. 17, 1958.

253715 to 253718.

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Nov. 17, 1958.

253715 to 253717. PANICUM ANTIDOTALE Retz. Poaceae. **Blue panicgrass.**

253715. E. C. 2557.

253716. E. C. 9702.

253717. I. W. 689.

253718. PANICUM MAXIMUM Jacq. **Guineagrass.**

E. C. 7479.

253719. SESLERIA ELONGATA Host Poaceae.

From Yugoslavia. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville Md. Received Nov. 17, 1958.

Col. No. 17321. Limestone rocks south end of Mount Durmitor, Montenegro. Elevation 5,000 feet. Tough cespitose xerophite, leaves to 40 cm. long.

Reported reluctantly eaten by cattle.

253720. MUCUNA NOVOGUINEENSIS Scheff. Fabaceae.

From the British West Indies. Plant presented by the Imperial College of Tropical Agriculture, Port of Spain, Trinidad. Received Nov. 17, 1958.

253721. (Undetermined.)

From Spain. Bulbs collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 17, 1958.

Col. No. K2185. Dry location north of Trujillo, Punto de Mirabete. Plant small; flowers pink at soil surface.

253722 to 253724.

From Iraq. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 18, 1958.

253722. BRASSICA NIGRA (L.) Koch Brassicaceae. **Black mustard.**

Col. No. K906. Hill bazaar.

253723. CICER ARIETINUM L. Fabaceae. **Chickpea.**

Col. No. K926. Baghdad bazaar.

253724. PHASEOLUS AUREUS Roxb. Fabaceae. **Mung bean.**

Col. No. K927. Baghdad bazaar.

253725 to 253729.

From Australia. Seeds presented by the Commonwealth Scientific Industrial Research Organization, Canberra. Received Nov. 18, 1958.

253725 to 253728. CENCHRUS CILIARIS L. Poaceae. **Buffelgrass.**

253725. 'Biloela'. Type D. Originally from Tanganyika, recorded under C.P.I. 6934. Does well in trials with 25 inches annual rainfall. Has been distributed as 'Biloela Buffel Grass'.

253726. 'Cloncurry strain'.

253727. 'Gayndah'. C.P.I. 1848. An Uganda introduction of 1930.

253728. Western Australian strain. Plants naturalized in Western Australia are less productive than other strains, but they do well under arid conditions. Introduced from India.

253729. STYLOSANTHES BOJERI Vogel. Fabaceae.

Introduced from Tanganyika.

253730. ZEA MAYS L. Poaceae. **Corn.**

From Brazil. Seeds presented by the Instituto Agronomico de Estado de Sao Paulo, Campinas. Received Nov. 18, 1958.

'Cubano'.

253731. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

From Nigeria. Seeds presented by the Regional Research Station, Ministry of Agriculture, Bamaru Zaria. Received Nov. 18, 1958.

'Yandev 55'. High-yielding variety maturing in 50 days.

253732. (Undetermined.)

From Bolivia. Plant collected and presented by Ira S. Nelson, Southwestern Louisiana Institute, Lafayette, Louisiana. Received Nov. 18, 1958.

253733. XANTHORRHEA TATEANA F. Muell. Liliaceae.

From Costa Rica. Seeds presented by C. H. Lankester, Cartago. Received Nov. 12, 1958.

Source of bright ruby colored resin used to color varnish.

253734 to 253811.

From Afghanistan and Iraq. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 19, 1958.

From Iraq unless otherwise noted.

253734. ASTRAGALUS sp. Fabaceae.

Col. No. K1778. Forty km. west of Ghazni, Afghanistan. Common thorny legume.

253735. BROMUS FASCICULATUS Presl Poaceae.

Col. No. K956. Thirty-two km. west of Ramadi. Plants heavily grazed.

253736. BROMUS RACEMOSUS L. **Bald brome.**

Col. No. K958. Thirty-two km. west of Ramadi.

253737. BROMUS sp.

Col. No. K1781. Forty km. west of Ghazni, Afghanistan.

253738 to 253751. CARTHAMUS OXYACANTHA Bieb. Asteraceae.

253738. Col. No. K896. Hilla-Baghdad road.

253739. Col. No. K898. Baghdad-Hilla road.

253740. Col. No. K899. Baghdad-Hilla road.

253741. Col. No. K901. Thirty-seven km. north of Hilla.

253742. Col. No. K902. Seven km. north of Hilla.

253743. Col. No. K907. Twenty km. north of Baghdad.

253744. Col. No. K908. Thirty-five km. north of Baghdad.

253745. Col. No. K909. Forty-three km. north of Baghdad. Plants glabrous.

253746. Col. No. K910. Forty-three km. north of Baghdad.

253747. Col. No. K938. Abu Ghraib Experiment Station.

253748. Col. No. K939. Abu Ghraib Experiment Station.

253749. Col. No. K940. Abu Ghraib Experiment Station.

253750. Col. No. K941. Abu Ghraib Experiment Station. Plants pubescent; bracts involucral.

253751. Col. No. K942. Abu Ghraib Experiment Station.

253752. CARTHAMUS sp.

Col. No. K943. Abu Ghraib Experiment Station. Intermediate between *C. oxyacantha* and *C. tinctorius*. Flowers yellow.

253753 to 253757. CARTHAMUS OXYACANTHA Bieb.

253753. Col. No. K944. Abu Ghraib Experiment Station.

253754. Col. No. K955. Fifteen km. west of Al Falluja.

253755. Col. No. K967. Five km. south and one km. east of Zuhure Junction, Baghdad.

253756. Col. No. K968. Five km. south and one km. east of Zuhure Junction, Baghdad.

253757. Col. No. K969. Five km. south and one km. east of Zuhure Junction, Baghdad.

253758 to 253765. CARTHAMUS TINCTORIUS L. **Safflower.**

253758. Col. No. K903. 'Qurtum'. Hilla bazaar. Seeds reported to have come from Baghdad.

253759. Col. No. K912. Baghdad bazaar. Said to have come from Tabriz, Iran.

253760. Col. No. K935. Baghdad bazaar.

253761. Col. No. K936. Baghdad bazaar.

253762. Col. No. K937. Abu Ghraib Experiment Station. Mixed varieties.

253763. Col. No. K1751. Mountain, south end of Kabul, Afghanistan. Plants to twelve dm. high, spineless; flowers orange and red.

253764. Col. No. K1755. North of Kabul, Shairpur area, Pushta, Afghanistan. Plant to one meter high.

253765. Col. No. K1759. Western margin of Kabul, Afghanistan. Plants to two meters high.

253766. CARTHAMUS sp.

Col. No. K961. Barren desert where water had accumulated. Thirty-two km. west of Ramadi. Plants to 20 cm. high.

253767. CARTHAMUS sp.

Col. No. K964. Eighty-nine km. west of Ramadi. Plant to 10 cm. high.

253768. CARTHAMUS sp.

Col. No. K965. Ninety km. west of Ramadi. Plants to 10 cm. high.

253769. CARTHAMUS sp.

Col. No. K966. Ninety km. west of Ramadi. Plants to 10 cm. high.

253770. CENTAUREA sp. Asteraceae.

Col. No. K970. Five km. south of Zuhura Junction, Baghdad. Plants to eight cm. high.

253771 to 253778. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

253771 to 253778. Abu Ghraib Experiment Station, west of Baghdad.

253771. Col. No. K947.

253772. Col. No. K948.

253773. Col. No. K949.

253774. Col. No. K950.

253775. Col. No. K951.

253776. Col. No. K952.

253777. Col. No. K953.

253778. Col. No. K954.

253779. IRIS SISYRINCHIUM L. Iridaceae. **Moraea iris.**

Col. No. K963. Thirty km. west of Ramadi. Plants 30 cm. high, abundant.

253780. HORDEUM sp. Poaceae.

Col. No. K922. Baghdad bazaar.

253781 to 253785. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

253781. Col. No. K904. Hilla bazaar.

253782. Col. No. K905. Hilla bazaar.

253783. Col. No. K913. Baghdad bazaar.

253784. Col. No. K933. Baghdad bazaar.

253785. Col. No. K934. Baghdad bazaar.

253786. MEDICAGO ORBICULARIS (L.) All. Fabaceae. **Buttonclover.**

Col. No. K897. Twelve km. south of Baghdad.

253787. ORYZOPSIS sp. Poaceae.

Col. No. K1770. Thirty-five km. west of Ghazni, Afghanistan. Plants to seven dm. high, growing under protection of thorny plants.

253788. ORYZOPSIS sp.

Col. No. K1780. Fields of dryland wheat, District Ooribirka, 40 km. west of Ghazni, Afghanistan.

253789 and 253790. PANICUM MILIACEUM L. Poaceae. **Proso millet.**

253789. Col. No. K923. Baghdad bazaar.

253790. Col. No. K924. Baghdad bazaar.

253791. POA BULBOSA L. Poaceae. **Bulbous bluegrass.**

Col. No. K1777. Forty km. west of Ghazni, Ooribirka, Afghanistan.

253792 to 253794. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

253792. Col. No. K930. Baghdad bazaar.

253793. Col. No. K931. Baghdad bazaar.

253794. Col. No. K932. Baghdad bazaar.

253795 and 253796. SORGHUM BICOLOR (L.) Moench Poaceae.

253795. Col. No. K920. Baghdad bazaar.

253796. Col. No. K921. Baghdad bazaar.

253797. STIPA PENNATA L. Poaceae. **Feathergrass.**

Col. No. K1776. Forty km. west of Ghazni, Ooribirka, Afghanistan. Plants six dm. high.

253798. TRIFOLIUM ALEXANDRINUM L. Fabaceae. **Berseem clover.**

Col. No. K945. Abu Ghraib Experiment Station. Plants pubescent.

253799 to 253804. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

253799. Col. No. K911. Forty-three km. north of Baghdad.

253800. Col. No. K917. Baghdad bazaar, Kurdiya wheat from Mosul.

253801. Col. No. K918. Baghdad bazaar. Grown near Mosul.

253802. Col. No. K928. Baghdad bazaar.

253803. Col. No. K1761. Northern outskirts of Ghazni, Afghanistan. Mixed club and bread wheat.

253804. Col. No. K1784. Forty-three km. west of Ghazni, Ooribirka, Afghanistan. Plant to six dm. high, abundant.

253805. VICIA ERVILIA (L.) Willd. Fabaceae. **Bittervetch.**

Col. No. K1764. 'Shakhal'. Ghazni bazaar, Afghanistan. Pigeon and cattle feed.

253806 to 253809. VICIA FABA L. **Broadbean.**

253806. Col. No. K914. Baghdad bazaar.

253807. Col. No. K915. Baghdad bazaar.

253808. Col. No. K916. Baghdad bazaar.

253809. Col. No. K925. Baghdad bazaar.

253810. VIGNA SINENSIS (Torner) Savi Fabaceae. **Common cowpea.**

Col. No. K929. Baghdad bazaar.

253811. ZEA MAYS L. Poaceae. **Corn.**

Col. No. K919. Baghdad bazaar.

253812 to 253814. NICOTIANA TABACUM L. Solanaceae. **Common tobacco.**

From Java. Seeds presented by the University of Godjah Moda, Jakarta. Received Nov. 21, 1958.

253812. 'Timor-Vorstonlanden'. Grown for cigar wrappers.

253813. 'Vorstenlanden'.

253814. Y 10. No. 768/1954.

253815 to 253841. HORDEUM (hybrids). Poaceae. **Barley.**

From Colombia. Seeds presented by the Rockefeller Foundation, Bogota. Received Nov. 21, 1958.

253815. PC 1. 'Funza-1102' × 'Funza'. II-872-4b-1b-7t-2b.

253816. PC 2. 'Desconocida-Maltworthy' × 'Funza-Kindred'. II-1302-35-2b-2t.

253817. PC 3. 'Atzel-Funza' × 'Funza-Montcalm'. II-1262-2b-2t-1t.

253818. PC 4. 'Atzel-Funza' × 'Funza-Montcalm'. II-1261-15b-4t-4b.

253819. PC 5. FR.1391 × 'Montcalm'. II-57-1b-1t-2b-2t.

253820. PC 6. 'Desconocida-Podna' × 'Giza 68' × 'Pocha-Raspa-Kindred'. II-1422-2t-3b-1t.

253821. PC 7. 'Desconocida-Pocha Giza 68' × 'Pocha-Raspa-Kindred'. II-1422-2t-11b-3t.

253822. PC 8. 'Desconocida-Pocha Giza 68' × 'Pocha-Raspa-Kindred'. II-1422-5t-3b-2t.

253823. PC 9. 'Funza-PI.5649-Pocha-Research' × 'Funza-Jet'. II-1455-1t-7b-1t.

253824. PC 10. PI.7852 'Funza-Surprise' × 'Bachue'. II-1543-8b-1t.

253825. PC 11. 'Ogalitsu-Funza-Funza'. PI.5649 × 'Bachue'. II-1545-1b-1t.

253826. PC 12. PI.3604-1138 'Ogalitsu-Valentine' × 'Bachue'. II-1587-6b-3t.

253827. PC 13. PI.6978 'Funza-Ogalitsu-Funza' × 'Bachue'. II-1612-48-1t.

253828. PC 14. 'Desconocida-Pocha' × 'Atzel-Fr.1272-Kindred' × 'Bachue'. II-1623-6b-3t.

253829. PC 15. FR.1714 'Gold' × 1226-Fr. 1963 'Montcalm'. II-2009-2b-1t.

253830. PC 16. 'Ogalitsu-Oderbruch B' × 1226-Fr. 1963 'Montcalm'. II-2024-2b-1t.

253831. PC 17. 'Atzel' × 'Bachue'. II-2149-5b-1t.

253832. PC 18. 'Erectoides' × 'Bachue'. II-2158-3b-1t.

253833. PC 19. 'Morocco' × 'Bachue'. II-2169-5b-1t.

253834. PC 20. 'Morocco' × 'Bachue'. II-2169-5b-2t.

253835. PC 21. 'Morocco' × 'Bachue'. II-2169-5b-3t.

253836. PC 22. PI.8985 × ('Giza 68' × 'Pocha-Raspa-Kindred'). II-2427-2b-1t.

253837. PC 23. 'Ogalitsu-FR.109' × 'Bachue'. II-1501-2t-3b-(1-42t).

253838. PC 24. 'Funza-Tcheschostor 929' × 'Bachue'. II-1662-1t-1b.

253839. PC 25. 'Bunza'.

253840. PC 26. 'Bachue'.

253841. PC 27. 'Tequendama'.

253842 to 253870.

From the Near East. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Maryland. Received November 21, 1958.

253842 to 253848. CARTHAMUS FLAVESCENS Willd. Asteraceae.

253842. Col. No. K1168. Aleppo road, 21.5 km. from Damascus, Syria.

253843. Col. No. K1171. Thirty-six km. north of Damascus, Aleppo road. Syria.

253844. Col. No. K1172. Fifty-nine km. north of Damascus, Aleppo road, Syria.

253845. Col. No. K1175. Eight km. south of Hama, Damascus-Aleppo road, Syria.

253846. Col. No. K1176. Thirty km. north of Hama, Damascus-Aleppo road, Syria.

253847. Col. No. K1179. One hundred km. south of Aleppo, Syria.

253848. Col. No. K1180. Fifty km. south of Aleppo, Syria.

253849 to 253861. CARTHAMUS GLAUCUS Bieb.

253849. Col. No. K1092. Twelve km. from Amman, Jerusalem road, Jordan. Plants to 8 dm. high.

253850. Col. No. K1130. Ninety-three km. from Amman, Amman-Nablus road, Jordan.

253851. Col. No. K1181. Forty km. south of Aleoppo, Syria. Flowers dark purple.

253852. Col. No. K1185. Forty km. east of Mosul, Erbil road, Iraq. Flowers light purple.

253853. Col. No. K1193. South side of River Zab, Mosul-Erbil road, Iraq. Flowers almost white.

253854. Col. No. K1205. Fifty-four km. north of Mosul, Iraq.

253855. Col. No. K1206. Fifty-seven km. north of Mosul, Iraq.

253856. Col. No. K1213. Eighty-eight km. north of Mosul, Iraq.

253857. Col. No. K1262. Two km. southeast of Deltawa, Iraq.

253858. Col. No. K1280. Twenty km. east of Kirkuk, Iraq.

253859. Col. No. K1282. Twenty-seven km. east of Kirkuk, Iraq.

253860. Col. No. K1295. About 15 km. west of Sulaimaniya, Iraq.

253861. Col. No. K1306. Fifty-six km. southeast of Sulaimaniya, Iraq.

253862 to 253866. CARTHAMUS LANATUS L.

253862. Col. No. K1195. One hundred twenty-four km. from Mosul, Salahudin road, Iraq.

253863. Col. No. K1285. Sixty km. east of Kirkuk, Iraq. Plants to nine dm. high.

253864. Col. No. K1293. Seventy-three km. east of Kirkuk, Iraq.

253865. Col. No. K1305. Fifty-six km. southeast of Sulaimaniya, Iraq.

253866. Col. No. K1758. North of Kabul, Shairpur area, Afghanistan.

253867 to 253870. CARTHAMUS NITIDUS Boiss.

253867. Col. No. K1126. Ninety-nine km. from Amman, Jerusalem-Jericho road, Jordan.

253868. Col. No. K1169. Twenty-six km. from Damascus, Damascus-Aleppo highway, Syria.

253869. Col. No. K1127. Ninety-one km. from Amman, Jerusalem-Jericho road, Jordan.

253870. Col. No. K1167. Twenty-one km. from Damascus, Damascus-Aleppo road, Syria.

253871. DROSERA sp. Droseraceae.

From Australia. Seeds collected by G. H. Spaulding, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 24, 1958.

Col. No. S–91. Five miles north of Moore, Western Australia. Plants with large rosettes of red leaves; scapes to 10 inches high; flowers pink or white.

253872 to 253897.

From Syria, Iraq and Israel. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 24, 1958.

253872 to 253884. CARTHAMUS OXYACANTHA Bieb. Asteraceae.

253872. Col. No. K1182. Nine km. east of Mosul, Erbil road, Iraq.

253873. Col. No. K1194. Seventy-one km. from Mosul, Erbil road, Iraq.

253874. Col. No. K1184. Forty km. east of Mosul, Erbil road, Oraq. Typical. Plants with vegetative heads.

253875. Col. No. K1204. Forty-one km. north of Hosul, Iraq.

253876. Col. No. K1212. Eighty-eight km. north of Mosul, Iraq.

253877. Col. No. K1256. Nineveh ruins east of Mosul, Iraq.

253878. Col. No. K1261. Fifteen km. north of Baghdad, Kirkuk road, Iraq. Plants pubescent.

253879. Col. No. K1263. Fifteen km. north of Deltawa, Iraq.

253880. Col. No. K1264. Fifteen km. south of Kirkuk, Iraq.

253881. Col. No. K1279. Twenty km. east of Kirkuk, Iraq.

253882. Col. No. K1281. Twenty-seven km. east of Kirkuk, Iraq. Plants hardy, vigorous.

253883. Col. No. K1292. Seventy-three km. east of Kirkuk, Iraq.

253884. Col. No. K1301. Twenty km. southeast of Sulaimaniya, Iraq.

253885 to 253888. CARTHAMUS SYRIACUS (Boiss.) Dinsm.

253885. Col. No. K1128. Jerusalem-Jericho road, Israel.

253886. Col. No. K1129. Three km. north of Jericho, Jerusalem.

253887. Col. No. K1166. Harasta, Damascus, Aleppo road, Syria.

253888. Col. No. K1170. Damascus-Aleppo road, 26 km. from Damascus, Syria.

253889 to 253891. CARTHAMUS TENUIS (Boiss. & Blanche) Bornm.

253889. Col. No. K1124. Base of Mount of Olives, Jerusalem, Israel. Plants abundant.

253890. Col. No. K1125. Jericho road, Jerusalem.

253891. Col. No. K1174. Eight km. south of Hama, Damascus-Aleppo road, Syria.

253892 to 253897. CARTHAMUS TINCTORIUS L. **Safflower.**

253892. Col. No. K1131. Two km. north of Howarah, Nablus-Jerusalem highway, Israel. Plants spineless; flowers red; grown for petals.

253893. Col. No. K1132. Nablus-Jerusalem highway, Howarah, Israel. Flowers red.

253894. Col. No. K1133. Nablus, Jerusalem. Flowers red.

253895. Col. No. K1158. Damascus bazaar, Syria.

253896. Col. No. K1160. Damascus bazaar, Syria.

253897. Col. No. K1159. Damascus bazaar, Syria.

253898 to 253922.

From Syria, Afghanistan, Iraq. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 24, 1958.

253898 to 253916. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

253898. Col. No. K1161. Damascus bazaar, Syria.

253899. Col. No. K1162. Damascus, Syria.

253900. Col. No. K1163. 'Osfur'. Damascus bazaar, Syria.

253901. Col. No. K1207. Fifty-seven km. south of Mosul, Iraq.

253902. Col. No. K1260. Fifteen km. southeast of Baghdad, Ctesiphon road, Iraq.

253903. Col. No. K1734. 'Maswar'. Kabul bazaar, Afghanistan. Sold as bird feed.

253904. Col. No. K1735. Six km. southwest of Kabul, Afghanistan. Plants to 10 dm. high; flowers orange-red; spineless.

253905. Col. No. K1746. Kabul bazaar, Afghanistan.

253906. Col. No. K1747. Kabul, Afghanistan. Plant to 12 dm. high.

253907. Col. No. K1748. One km. north of ICA compound, Kabul, Afghanistan. Plant spineless, 12 dm. high.

253908. Col. No. K1749. One km. north of ICA compound in Kabul, Afghanistan. Plant spiny.

253909. Col. No. K1750. Mountain at south end of Kabul, Afghanistan. Plant to 12 dm. high.

253910. Col. No. K1752. Mountain at south end of Kabul, Afghanistan. Plant to 12 dm. high, spineless.

253911. Col. No. K1753. Shairpur area, north of Kululah Pushta, Afghanistan. Plants spineless, to 10 dm. high.

253922. Col. No. K1754. Shairpur area, north of Kululah Pushta, Afghanistan. Plants spiny, to eight dm. high.

253913. Col. No. K1756. Shairpur area, north of Kululah Pushta, Afghanistan. Plants spiny.

253914. Col. No. K1757. Shairpur area, northwest of Kululah Pushta, Afghanistan. Plants to 11 dm. high, spineless.

243915. Col. No. K1259. Ctesiphon, 35 km. south of Baghdad, Iraq.

253916. Col. No. K1762. Ghazni, Afghanistan. The only safflower in the area. Plant to one meter high; flowers red and orange.

253917. CARTHAMUS sp.

Col. No. K1177. Thirteen km. north of Hama, Damascus-Aleppo road, Syria.

253918. CARTHAMUS sp.

Col. No. K1183. Forty km. east of Mosul, Erbil road, Iraq.

253919. CARTHAMUS sp.

Col. No. K1178. One hundred and sixty-one km. south of Aleppo, near Tenaya, Iraq.

253920 to 253922. CARTHAMUS (hybrids).

(*C. glaucus* × *C. oxyacantha.*) Seedlings intermediate between parents.

253920. Col. No. K1208. Fifty-seven km. north of Mosul, Iraq. Flowers yellow to greenish-yellow.

253921. Col. No. K1283. Fifty-seven km. north of Mosul, Iraq. Plant glaucous, sterile; flowers yellow.

253922. Col. No. K1283. Fifty-seven km. north of Mosul, Iraq. Plant glaucous, sterile; flowers yellow.

253923. THEOBROMA CACAO L. Sterculiaceae. **Cacao.**

From Costa Rica. Seeds collected by E. P. Imle, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 24, 1958.

Col. No. A107. Quepos. From open-pollinated clones, United Fruit Company.

253924 to 253927. FRAGARIA (hybrids). Rosaceae. **Strawberry.**

From Japan. Plants presented by the National Tokai-Kinki Agricultural Experiment Station, Okitsu. Received Nov. 24, 1958.

253924. 'Koro'.

253925. 'Nagoya Omi'.

253926. 'Victoria'.

253927. 'Yagumd'.

253928 to 253930. COFFEA ARABICA L. Rubiaceae. **Arabian coffee.**

From Ethiopia. Seeds presented by the United States Operations Mission, Addis Ababa. Received Dec. 4, 1958.

253928. 'Ainamba'. Ghimira, Kaffa. Elevation 1,350 meters.

253929. 'Babbaka'. Ghimira, Kaffa. Elevation 1,200 meters.

253930. 'Dudduka'. Ghimira, Kaffa. Elevation 1,250 meters.

253931 to 254010.

From Iraq, Syria, and Afghanistan. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 25, 1958.

253931 and 253932. HELIANTHUS ANNUUS L. Asteraceae. **Common sunflower.**

253931. Col. No. K946. Abu Ghraib Experiment Station, west of Baghdad, Iraq.

253932. Col. No. K1267. Kirkuk bazaar, Iraq.

253933. HORDEUM SPONTANEUM C. Koch Poaceae.

Col. No. K1197. Salahudin, 127 km. east of Mosul, Iraq. Plants to five dm. high.

253934. HORDEUM VULGARE L. **Common barley.**

Col. No. K1740. Kabul bazaar, Afghanistan.

253935. HORDEUM sp.

Col. No. K1138. Damascus bazaar, Syria.

253936. HORDEUM sp.

Col. No. K1298. Eleven km. southeast of Sulaimaniya, Iraq.

253937. HORDEUM sp.

Co. No. K1310. Sulaimaniya bazaar, Iraq.

253938. HORDEUM sp.

Col. No. K1311. Sulaimaniya bazaar, Iraq.

253939. HORDEUM sp.

Col. No. K1706. Kabul bazaar, Afghanistan.

253940. HORDEUM sp.

Col. No. K1739. Kabul bazaar, Afghanistan.

253941. HORDEUM sp.

Col. No. K1745. Kabul bazaar, Afghanistan.

253942 to 253948. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

253942. Col. No. K1296. Seven km. southeast of Sulaimaniya, Iraq.

253943. Col. No. K1297. Eleven km. southeast of Sulaimaniya, Iraq.

253944. Col. No. K1300. Twenty km. southeast of Sulaimaniya, Iraq.

253945. Col. No. 1302. Twenty-three km. southeast of Sulaimaniya, Iraq.

253946. Col. No. 1307. Sulaimaniya bazaar, Iraq.

253947. Col. No. 1308. Sulaimaniya bazaar, Iraq.

253948. Col. No. 1314. Eight km. south of Erbil, Iraq. Plants to 25 cm. high.

253949 to 253951. MEDICAGO SATIVA L. Fabaceae. **Alfalfa.**

253949. Col. No. K1725. 'Vishka'. Kabul bazaar, Afghanistan.

253950. Col. No. K1743. Kabul, Afghanistan.

253951. Col. No. K1763. Ghazni bazaar, Afghanistan.

253952. TRIFOLIUM ALEXANDRINUM L. Fabaceae. **Berseem clover.**

Col. No. K1738. Kabul bazaar, Afghanistan.

253953 to 253955. PANICUM MILIACEUM L. Poaceae. **Proso millet.**

253953. Col. No. K1708. Kabul bazaar, Afghanistan.

253954. Col. No. K1731. 'Oogal'. Kabul bazaar, Afghanistan.

253955. Col. No. K1737. 'Arzan'. Kabul bazaar, Afghanistan.

253956. SECALE MONTANUM Guss. Poaceae. **Mountain rye.**

Col. No. K1238. One hundred twenty-four km. north of Mosul, Iraq.

253957. SECALE VAVILOVII Grossh.

Col. No. K1773. Twenty-four km. west of Ghazni, Afghanistan. Plants to seven dm. high.

253958 to 253963. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

253958. Col. No. K1139. Damascus, Syria.

253959. Col. No. K1140. Damascus bazaar, Syria.

253960. Col. No. K1299. Eleven km. southeast of Sulaimaniya, Iraq.

253961. Col. No. K1704. 'Gandung'. Kabul bazaar, Afghanistan.

253962. Col. No. K1705. 'Gandung'. Kabul bazaar, Afghanistan.

253963. Col. No. K1742. Kabul bazaar, Afghanistan.

253964. TRITICUM DURUM Desf. **Durum wheat.**

Col. No. K1312. Sulaimaniya bazaar. Iraq.

253965. CANNABIS SATIVA L. Moraceae. **Hemp.**

Col. No. K1150. Damascus bazaar, Syria.

253966 and 253967. DACTYLIS GLOMERATA L. Poaceae. **Orchardgrass.**

253966. Col. No. K1237. One hundred km. north of Mosul, Iraq. Plants to eight dm. high.

253967. Col. No. K1247. One hundred km. north of Mosul, Iraq. Plants to eight dm. high.

253968. PISUM SATIVUM L. Fabaceae. **Garden pea.**

Col. No. K1718. Kabul bazaar, Afghanistan.

253969. LATHYRUS SATIVUS L. Fabaceae. **Grass peavine.**

Col. No. K1722. Kabul bazaar, Afghanistan.

253970. PISUM SATIVUM L. Fabaceae. **Garden pea.**

Col. No. K1723. 'Mouchon'. Kabul bazaar, Afghanistan.

253971. LINUM ANGUSTIFOLIUM Huds. Linaceae. **Narrowleaf flax.**

Col. No. K1192. Mosul-Erbil road, Iraq. Plant to six dm. high.

253972. LINUM STRICTUM L. **Flax.**

Col. No. K1294. About 73 km. east of Kirkuk, Iraq. Plant to 20 cm. high, scarce.

253973 to 253982. LINUM USITATISSIMUM L. **Common flax.**

253973. Col. No. K959. Thirty km. west of Ramadi, Iraq.

253974. Col. No. K1154. Damascus bazaar, Syria.

253975. Col. No. K1155. Damascus bazaar, Syria.

253976. Col. No. K1156. Damascus bazaar, Syria.

253977. Col. No. K1157. Damascus bazaar, Syria.

253978. Col. No. K1164. Damascus bazaar, Syria.

253979. Col. No. K1165. Damascus bazaar, Syria.

253980. Col. No. K1257. Mosul bazaar, Iraq.

253981. Col. No. K1265. Kirkuk bazaar, Iraq.

253982. Col. No. K1266. Kirkuk bazaar, Iraq.

253983 to 253985. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

253983. Col. No. K1151. Damascus bazaar, Syria.

253984. Col. No. K1152. Damascus bazaar, Syria.

253985. Col. No. K1153. Damascus bazaar, Syria.

253986. SORGHUM BICOLOR (L.) Moench Poaceae.

Col. No. K1137. Damascus bazaar, Syria.

253987. TRIFOLIUM CAMPESTRE Schreb. Fabaceae. **Large hop clover.**

Col. No. K1253. Vicinity of Sirsank, 142 km. north of Mosul, Iraq. Plants low growing, abundant.

253988 to 253991. TRIFOLIUM RESUPINATUM L. **Persian clover.**

253988. Col. No. K1188. Mosul-Erbil road, Iraq.

253989. Col. No. K1230. Ninety-seven km. north of Mosul, Iraq. Plants scarce.

253990. Col. No. K1709. 'Shaftal'. Kabul bazaar, Afghanistan.

253991. Col. No. K1766. Ghazni bazaar, Afghanistan.

253992. TRIFOLIUM SPUMOSUM L.

Col. No. K1254. Vicinity of Sirsank, 142 km. north of Mosul, Iraq. Plants low growing, scarce.

253993. TRIFOLIUM sp.

Col. No. K1211. Fifty-seven km. north of Mosul, Iraq.

253994. TRIFOLIUM sp.

Col. No. K1235. Seventy-one km. north of Mosul, Iraq.

253995. TRIFOLIUM sp. Fabaceae.

Col. No. K1252. Vicinity of Sirsank, 142 km. north of Mosul, Iraq.

253996. TRIGONELLA FOENUM-GRAECUM L. Fabaceae. **Fenugreek.**

Col. No. K1721. 'Oolbar'. Kabul bazaar, Afghanistan.

253997. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

Col. No. K1772. Forty km. west of Ghazni, Afghanistan. Plants to six dm. high.

253998 and 253999. VICIA ERVILIA (L.) Willd. Fabaceae. **Bittervetch.**

253998. Col. No. K1148. Damascus bazaar, Syria.

253999. Col. No. K1724. 'Shochal'. Kabul bazaar, Afghanistan.

254000 to 254006. VICIA FABA L. **Broadbean.**

254000. Col. No. K1143. Damascus bazaar, Syria.

254001. Col. No. K1144. Damascus bazaar, Syria.

254002. Col. No. K1145. Damascus bazaar, Syria.

254003. Col. No. K1146. Damascus bazaar, Syria.

254004. Col. No. K1278. Kirkuk bazaar, Iraq.

254005. Col. No. K1714. Kabul bazaar, Afghanistan.

254006. Col. No. K1715. Kabul bazaar, Afghanistan.

254007 to 254010. ZEA MAYS L. Poaceae. **Corn.**

254007. Col. No. K1134. Damascus bazaar, Syria.

254008. Col. No. K1135. Damascus bazaar, Syria.

254009. Col. No. K1136. Damascus bazaar, Syria.

254010. Col. No. K1707. 'Jowar'. Kabul bazaar, Afghanistan.

254011 to 254081.

From Europe. Seeds held by the Cereal Crops Research Branch, Crops Research Division, Beltsville, Md. Numbered Nov. 26, 1958.

A collection of European commercial varieties to be used in breeding research.

254011 to 254015. TRITICUM DURUM Desf. Poaceae. **Durum wheat.**

254011. No. 1.
254012. No. 2.
254013. No. 3.
254014. No. 4.
254015. No. 5.

254016 to 254081. TRITICUM AESTIVUM L. **Common wheat.**

254016. No. 1.
254017. No. 2.
254018. No. 3.
254019. No. 4.
254020. No. 5.
254021. No. 6.
254022. No. 7.
254023. No. 8.
254024. No. 9.
254025. No. 10.
254026. No. 11.
254027. No. 12.
254028. No. 13.
254029. No. 14.
254030. No. 15.
254031. No. 16.
254032. No. 17.
254033. No. 18.
254034. No. 19.
254035. No. 20.
254036. No. 21.
254037. No. 22.
254038. No. 23.
254039. No. 24.
254040. No. 25.
254041. No. 26.
254042. No. 27.
254043. No. 28.
254044. No. 29.
254045. No. 30.
254046. No. 31.
254047. No. 32.
254048. No. 33.
254049. No. 34.
254050. No. 35.
254051. No. 36.
254052. No. 37.
254053. No. 38.
254054. No. 39.
254055. No. 40.
254056. No. 41.
254057. No. 42.
254058. No. 43.
254059. No. 44.
254060. No. 45.
254061. No. 46.
254062. No. 47.
254063. No. 48.
254064. No. 49.
254065. No. 50.
254066. No. 51.
254067. No. 52.
254068. No. 53.
254069. No. 54.
254070. No. 55.
254071. No. 56.
254072. No. 57.
254073. No. 58.
254074. No. 59.
254075. No. 60.
254076. No. 61.
254077. No. 62.
254078. No. 63.
254079. No. 64.
254080. No. 65.
254081. No. 66.

254082 to 264090.

From Iraq and Spain. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 26, 1958.

254082 and 254083. CARTHAMUS FLAVESCENS Willd. Asteraceae.

254082. Col. No. K1337. Fifteen km. south of Saadiyah, Iraq. Plants to six dm. high.

254083. Col. No. K1338. Nineteen km. south of Saadiyah, seven km, north of Mikadadiyah, Iraq.

254084 to 254086. CARTHAMUS GLAUCUS Bieb.

254084. Col. No. K1303. Forty km. southeast of Sulaimaniya, Iraq.

254085. Col. No. K1334. Sixty-eight km. south of Arbet, Iraq.

254086. Col. No. K1335. One hundred and fifty-five km. south of Arbet, Iraq.

254087. CARTHAMUS LANATUS L.

Col. No. K2184. Lisbon highway, seven km. north of Trujillo, Spain.

254088 and 254089. CARTHAMUS OXYACANTHA Bieb.

254088. Col. No. K1284. Fifty-four km. east of Kirkuk, Iraq.

254089. Col. No. K1333. Sixty-eight km. south of Arbet, Iraq.

254090. CARTHAMUS TINCTORIUS L. **Safflower.**

Col. No. K2192. Jefatura Agronomica de Cuenca, Spain.

254091 to 254106.

From Mexico. Plants collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Nov. 26, 1958.

254091. CISSUS sp. Vitaceae.

Col. No. 17653. Near Macusari Dam, Rio Mayo, Sonora. Perennial herb; leaves attractive.

254092. DIOON sp. Cycadaceae.

254094. SPIRANTHES POLYANTHA Reichb. f. Orchidaceae. **Orchid.**

Col. No. 17672. Santa Ana, near Yicora, Sonora. Elevation 2,800 feet. Perennial herb; leaves in rosette; roots succulent.

254095. (Undetermined.)

Col. No. 17664. Cedros Range, Sonora. Elevation 3,500 feet. Perennial; roots fibrous.

254096. AGAVE ANGUSTISSIMA Engelm. Amaryllidaceae.

Col. No. 17640. Cerros de Mochis, Sinaloa.

254097. AGAVE MESCAL Koch

Col. No. 17684. 'Lechiguilla Verde'. Cedros Range, Sonora. Elevation 3,000 feet. Single rosettes.

254098. AGAVE PALMERI Engelm.

Col. No. 17681. Two miles south of Imuris, Sonora. Small, suckering, grayish rosettes, turning red after seeding.

254099. AGAVE PARVIFLORA Torr.

Col. No. 17690. 'Tanta'. Matape, Sonora. Rosettes with spotted leaves.

254100. AGAVE YAQUIANA Trel.

Col. No. 17675. Between Nuri and Santa Ana, Sonora. Elevation 2,200 feet.

254101. AGAVE sp.

Col. No. 17624. North of Matape, Sonora. Plant glaucous gray, rosettes medium-sized.

254102. AGAVE sp.

Col. No. 17666. Sierra de Yecora, Sonora. Elevation 4,000 feet. Large, compact, single rosettes; leaves ovate to lanceolate, with large distinct teeth on protuberance; panicle to 14 feet high, with up to 10 branches on upper third of stalk.

254103. AGAVE sp.

Col. No. 17680. Cedros Range, Sonora. Elevation 3,500 feet. Gray rosettes; leaves elongated.

254104. AGAVE sp.

Col. No. 17685. 'Jaiboli'. Near San Bernardo, Sonora. Elevation 1,000 feet.

254105. AGAVE sp.

Col. No. 17686. Tupeyeca near San Bernardo, Sonora. Plant large, sword-leaved; cultivated.

254106. (Undetermined.)

(No number or note.)

254107 to 254109. PRUNUS AVIUM L. Amygdalaceae. **Sweet cherry.**

From Great Britain. Seeds presented by the John Innes Horticultural Institution, Bayfordbury, Hertford, England. Received Nov. 28, 1958.

254107. No. 2420. Open pollinated, from a tree of 'Emperor Francis' × 'Bigarreau Napoleon'. The 'Bigarreau Napoleon' pollen had been irradiated.

254108. No. 2434. Open pollinated, from a tree of 'Emperor Francis' × 'Bigarreau Napoleon'. The 'Bigarreau Napoleon' pollen had been irradiated.

254109. No. 2538. Open pollinated. Spontaneous mutation from an F_2 seedling of 'Bigarreau de Schrecken' × 'Governor Wood'.

254110. FRAGARIA (hybrid). Rosaceae. **Strawberry.**

From Japan. Plants presented by the Horticultural Division, Experiment Station, Okitsu. Received Nov. 28, 1958.

'Koro'.

254111 to 254115. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From France. A collection of wheat varieties held by the Cereal Crops Research Branch. Numbered Dec. 1, 1958.

254111. 'Bretagne'.

254112. 'Later'.

254113. 'Lille'.

254114. 'Molinel'.

254115. 'Valliant'.

254116 to 254140. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Kenya. Seeds from an unknown donor. Received Dec. 1, 1958.

254116. No. 437(L) II.P.1.
254117. No. 503(L) L.A.1.
254118. No. 503(L) 1.A.4.
254119. No. 504(L) II.A.2.
254120. No. 504(L) I.A.3.
254121. No. 504(L) I.B.2.
254122. No. 504(L) I.E.1.
254123. No. 504 F_5 Sel. 4.
254124. No. 505.M.1.D.7.
254125. No. 557(L) I.R.2.
254126. No. 559(L).2.C.1.
254127. No. 559.C.2.A.4.
254128. No. 559.O.1.(L) 2.
254129. No. 559.O.1.(L) 5.

254130. No. 559(L) 4.A.1.
254131. No. 604(L) 1.A.4.
254132. No. 604(L) 1.B.4.
254133. No. 610(L) I.B.1.
254134. No. 610(L) I.B.3.
254135. No. 610 F_5 Sel. 2.
254136. No. 610 F_5 Sel. 6.
254137. No. 613(L) I.F.1.
254138. No. 613(L) I.F.4.
254139. No. 648(L) II.K.2.
254140. No. 648(L) II.K.3.

254141 to 254220.

From Europe. A wheat collection held for plant breeders by the Cereal Crops Research Branch, Crops Research Division, Beltsville, Md. Numbered Dec. 1, 1958.

Localities given are the sources of the material.

254141 and 254142. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

From Spain.

254141. Selection from P.I. 190980.

254242. Selection from P.I. 191391.

254143 to 254194. TRITICUM DICOCCUM Schrank **Wheat.**

254143. Selection from P.I. 94655. Bulgaria.
254144. Selection from P.I. 57392. Ethiopia.
254145. Selection from P.I. 58788. Ethiopia.
254146. Selection from P.I. 168677. Ethiopia.
254147. Selection from P.I. 193877. Ethiopia.
254148. Selection from P.I. 195722. Ethiopia.
254149. Selection from P.I. 195723. Ethiopia.
254150. Selection from P.I. 113961. U.S.S.R.
254151. Selection from P.I. 94662. Germany.
254152 to 254186. Iran.

254152. No. 60 i–1.
254153. No. 4.
254154. No. 7.
254155. No. 8.
254156. No. 10.
254157. No. 12.
254158. No. 16.
254159. No. 17.
254160. No. 19.
254161. No. 20.
254162. No. 223–a–1.
254163. No. 223–a–2.
254164. No. 223–a–3.
254165. No. 223–a–5.
254166. No. 223–a–6.
254167. No. 223–a–7.
254168. No. 223–a–8.
254169. No. 223–a–9.
254170. No. 223–a–10.
254171. No. 223–a–11.
254172. No. 223–a–12.
254173. No. 223–a–13.
254174. No. 223–a–14.
254175. No. 223–a–15.
254176. No. 223–a–16.
254177. No. 223–a–17.
254178. No. 223–a–18.
254179. No. 223–a–19.
254180. No. 223–a–20.
254181. No. 223–a–21.
254182. No. 223–a–22.
254183. No. 223–a–23.
254184. No. 223–a–24.
254185. No. 223–a–25.
254186. No. 223–a–26.

254187. Selection from P.I. 56235. Portugal.

254188. Selection from a mixture from P.I. 51984. U.S.S.R.

254189. Selection from P.I. 74108. U.S.S.R.

254190. Selection from P.I. 94617. U.S.S.R.

254191. Selection from P.I. 94667. U.S.S.R.

254192. Selection from P.I. 94656. Serbia.

254193. Selection from P.I. 190926. Spain.

254194. No. 56R3324. Virginia, U.S.A.

254195. TRITICUM MONOCOCCUM L. **Wheat.**

Selection from a mixture from P.I. 167637. Turkey.

254196 to 254213. TRITICUM ORIENTALE Percival **Wheat.**

254196 to 254212. Iran.

254196. No. 263–a–3.
254197. No. 263–a–4.
254198. No. 263–a–5.
254199. No. 263–a–6.
254200. No. 263–a–7.
254201. No. 263–a–8.
254202. No. 263–a–9.
254203. No. 263–a–10.
254204. No. 263–a–11.
254205. No. 263–a–12.
254206. No. 263–a–13.
254207. No. 263–a–14.
254208. No. 263–a–15.
254209. No. 263–a–16.
254210. No. 263–a–17.
254211. No. 263–a–18.
254212. No. 263–a–19.

254213. Selection from P.I. 115815. Turkey.

254214 to 254216. TRITICUM POLONICUM L. **Polish wheat.**

254214. Selection from P.I. 124494. India.

254215. Selection from P.I. 70739. Iraq.

254216. Selection from P.I. 113963. U.S.S.R.

254217 and 254218. TRITICUM × TIMOCOCCUM Kostoff **Wheat.**

(*T. timopheevii* × *T. monococcum* var. *hornemanii*).

254217. No. 56R3383. Great Britain.

254218. No. 56R3384. Great Britain.

254219. TRITICUM sp.

Selection from P.I. 94748. U.S.S.R.

254220. TRITICUM sp.

Selection from P.I. 190931. Spain.

254221. BOEHMERIA sp. Urticaceae.

From Viet-Nam. Roots presented by the United States Operations Mission, Saigon. Received Dec. 4, 1958.

254222. SOLANUM MURICATUM Ait. Solanaceae. **Pepino.**

From Ecuador. Seeds presented by the Institute of Inter-American Affairs, Quito. Received Dec. 4, 1958.

254223 to 254346. LINUM USITATISSIMUM L. Linaceae. **Common flax.**

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Dec. 1, 1958.

254223. No. N. P. 1.
254224. No. N. P. 2.
254225. No. N. P. 3.
254226. No. N. P. 4.
254227. No. N. P. 5.
254228. No. N. P. 6.
254229. No. N. P. 7.
254230. No. N. P. 8.
254231. No. N. P. 9.

254232. No. N. P. 10.
254233. No. N. P. 11.
254234. No. N. P. 12.
254235. No. N. P. 13.
254236. No. N. P. 14.
254237. No. N. P. 15.
254238. No. N. P. 16.
254239. No. N. P. 17.
254240. No. N. P. 18.
254241. No. N. P. 19.
254242. No. N. P. 20.
254243. No. N. P. 21.
254244. No. N. P. 22.
254245. No. N. P. 23.
254246. No. N. P. 24.
254247. No. N. P. 25.
254248. No. N. P. 26.
254249. No. N. P. 27.
254250. No. N. P. 28.
254251. No. N. P. 29.
254252. No. N. P. 30.
254253. No. N. P. 31.
254254. No. N. P. 32.
254255. No. N. P. 33.
254256. No. N. P. 34.
254257. No. N. P. 35.
254258. No. N. P. 36.
254259. No. N. P. 37.
254260. No. N. P. 38.
254261. No. N. P. 39.
254262. No. N. P. 40.
254263. No. N. P. 41.
254264. No. N. P. 42.
254265. No. N. P. 43.
254266. No. N. P. 44.
254267. No. N. P. 45.
254268. No. N. P. 46.
254269. No. N. P. 47.
254270. No. N. P. 48.
254271. No. N. P. 49.
254272. No. N. P. 50.
254273. No. N. P. 51.
254274. No. N. P. 52.
254275. No. N. P. 53.
254276. No. N. P. 54.
254277. No. N. P. 55.
254278. No. N. P. 56.
254279. No. N. P. 57.
254280. No. N. P. 58.
254281. No. N. P. 59.
254282. No. N. P. 60.
254283. No. N. P. 61.
254284. No. N. P. 62.
254285. No. N. P. 63.
254286. No. N. P. 64.
254287. No. N. P. 65.
254288. No. N. P. 66.
254289. No. N. P. 67.
254290. No. N. P. 68.
254291. No. N. P. 69.
254292. No. N. P. 70.
254293. No. N. P. 71.
254294. No. N. P. 72.
254295. No. N. P. 73.
254296. No. N. P. 74.
254297. No. N. P. 75.
254298. No. N. P. 76.
254299. No. N. P. 77.
254300. No. N. P. 78.
254301. No. N. P. 79.
254302. No. N. P. 80.
254303. No. N. P. 81.
254304. No. N. P. 82.
254305. No. N. P. 83.
254306. No. N. P. 84.
254307. No. N. P. 85.
254308. No. N. P. 86.
254309. No. N. P. 87.
254310. No. N. P. 88.
254311. No. N. P. 89.
254312. No. N. P. 90.
254313. No. N. P. 91.
254314. No. N. P. 92.
254315. No. N. P. 93.
254316. No. N. P. 94.
254317. No. N. P. 95.
254318. No. N. P. 96.
254319. No. N. P. 97.
254320. No. N. P. 98.
254321. No. N. P. 99.
254322. No. N. P. 100.
254323. No. N. P. 101.
254324. No. N. P. 102.
254325. No. N. P. 103.
254326. No. N. P. 104.
254327. No. N. P. 105.
254328. No. N. P. 106.
254329. No. N. P. 107.
254330. No. N. P. 108.
254331. No. N. P. 109.
254332. No. N. P. 110.
254333. No. N. P. 111.
254334. No. N. P. 112.
254335. No. N. P. 113.
254336. No. N. P. 114.
254337. No. N. P. 115.
254338. No. N. P. 116.
254339. No. N. P. 117.
254340. No. N. P. 118.
254341. No. N. P. 119.
254342. No. N. P. 120.
254343. No. N. P. 121.
254344. No. N. P. 122.
254345. No. N. P. 123.
254346. No. N. P. 124.

254347 to 254355.

From Iraq and Afghanistan. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division Beltsville, Md. Received Dec. 2, 1958. From Iraq unless otherwise noted.

254347 and 254348. AMMI COPTICUM L. Apiaceae.

254347. Col. No. K1268. Kirkuk bazaar. July 6, 1958.

254348. Col. No. K1269. Kirkuk bazaar. July 6, 1958.

254349. CARDUUS sp. Asteraceae.

Col. No. K1760. Eighteen km. southwest of Kabul, Afghanistan. August 4, 1958.

254350. CIRSIUM sp. Asteraceae.

Col. No. K900. Thirty-three km. south of Baghdad. June 6, 1958.

254351. CUMINUM CYMINUM L. Apiaceae. **Cumin.**

Col. No. K1274. Kirkuk bazaar. July 6, 1958.

254352. OCIMUM BASILICUM L. Menthaceae. **Basil.**

Col. No. K1273. Kirkuk bazaar. July 6, 1958.

254353. PIMPINELLA ANISUM L. Apiaceae. **Anise.**

Col. No. K1272. Kirkuk bazaar.

254354. SCABIOSA sp. Dipsacaceae.

Col. No. K1186. South side of Riber Zab, Mosul-Erbil road. Plant about one meter high, abundant; heads large, purple.

254355. SCABIOSA sp.

Col. No. K1217. Eighty-eight km. north of Mosul. July 1, 1958.

254356. PINUS PUMILA Regel Pinaceae. **Japanese stone pine.**

From Japan. Seeds presented by the Experimental Forest Station, Kyoto University, Kitashirakawa, Kyoto. Received Dec. 3, 1958.

Collected at Teshikaga, Kushiro District, Hokkaido, October, 1958.

254357. MALUS SYLVESTRIS Mill. Malaceae. **Common apple.**

From Denmark. Scions presented by Count F. M. Knuth, Knuthborg, Bandholm. Received Dec. 1, 1958.

'Cox's Orange', Oreby strain. Found about 30 years ago, in the orchard at Oreby Castle, near Sax Kobing (Lloland Island). Strain very similar to, if not identical with, 'Blangsted' (Kortegard's strain).

254358 to 254407.

From India. Seeds presented by the Indian Agricultural Research Institute, New Delhi. Received Dec. 2, 1958.

254358 to 254360. BRASSICA CAMPESTRIS L. Brassicaceae. **Bird rape.**

254358. 'Toria'. (dip. 2n=20) T. 22.

254359. 'Sarson'. T. 88.

254360. 'Toria'. (autotetra. 4n=40).

254361. BRASSICA JUNCEA (L.) Coss. **Chinese mustard.**

T. 167.

254362. BRASSICA NIGRA (L.) Koch. **Black mustard.**

254363 to 254366. CARTHAMUS TINCTORIUS L. Asteraceae. **Safflower.**

254363. 'V. Mahmudpur-Pusa'.

254364. 'V. Garhia-Pusa'.

254365. 'V. Guara-Pusa'.

254366. 'V. Harpur-Pusa'.

254367 and 254368. CYAMOPSIS TETRAGONOLOBA (L.) Taub. Fabaceae. **Guar.**

254367. 'Pusa Mausmi'.

254368. 'Pusa Sadabahar'.

254369. HIBISCUS CANNABINUS L. Malvaceae. **Kenaf.**

N.P. 3.

254370. HIBISCUS SABDARIFFA L. **Roselle.**
N.P. Sab. 5.

254371. LINUM ANGUSTIFOLIUM Huds. Linaceae. **Narrowleaf flax.**

254372. LINUM GRANDIFLORIUM Desf. **Flowering flax.**

254373. LINUM NARBONENSE L. **Narbonne flax.**

254374. LINUM PERENNE L. **Perennial flax.**

254375 to 254403. LINUM USITATISSIMUM L. **Common flax.**

254375. No. B. R. 1.
254376. No. B. R. 9.
254377. No. B. R. 12.
254378. No. C. F. White.
254379. No. I.P. I. 6.
254380. No. M10.
254381. No. S36.
254382. No. K2.
254383. No. N–55.
254384. No. NC 5–2.
254385. No. T477.
254386. No. T 1193/2.
254387. No. N. P. (R.R.) 5.
254388. No. N. P. (R.R.) 9.
254389. No. N. P. (R.R.) 37.
254390. No. N. P. (R.R.) 38.
254391. No. N. P. (R.R.) 45.
254392. No. N. P. (R.R.) 197.
254393. No. N. P. (R.R.) 204.
254394. No. N. P. (R.R.) 261.
254395. No. N. P. (R.R.) 262.
254396. No. N. P. (R.R.) 267.
254397. No. N. P. (R.R.) 272.
254398. No. N. P. (R.R.) 405.
254399. No. N. P. (R.R.) 407.
254400. No. N. P. (R.R.) 438.
254401. No. N. P. (R.R.) 439.
254402. No. N. P. (R.R.) 440.
254403. No. N. P. (R.R.) 494.

254404 to 254406. RICINUS COMMUNIS L. Euphorbiaceae. **Castorbean.**

254404. 'Guara' (Pusa).
254405. 'Mahmadpur-Birauli' (Pusa).
254406. 'Garhia' (Pusa).

254407. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**
N.P. 6.

254408 to 254410.

From Hungary. Seeds presented by the Foreign Agricultural Service, Budapest. Received Dec. 2, 1958.

Collected at Eger, Heves.

254408. AVENA SATIVA L. Poaceae. **Common oats.**

254409. HORDEUM sp. Poaceae.

254410. TRITICUM AESTIVUM L. Poaceae. **Common wheat.**

254411. VICIA SATIVA L. Fabaceae. **Common vetch.**

From Jordan. Seeds presented by the Agricultural Research Service, Ministry of Agriculture, Amman. Received Dec. 2, 1958.

'Bakiyah'. Grown in Jordan, where rainfall is sufficient, and in the Jordan Valley under irrigation. Yields to 100 kgs. of seed per donum (0.22 acre).

254412 to 254427.

From Great Britain. Plans presented by the Royal Botanic Gardens Kew, England. Received Dec. 2, 1958.

Localities given are former sources.

254412. SANSEVIERIA ANGUSTIFLORA Lindl. Liliaceae.

Natal or Zululand.

254413. SANSEVIERIA AUBRYTIANA Carr.

Tropical Africa.

254414. SANSEVIERIA CANICULATA Carr.

Tropical Africa.

254415. SANSEVIERIA CYLINDRICA Bojer

Tropical Africa.

254416. SANSEVIERIA GRANDIS Hook. f.

Tropical Africa.

254417. SANSEVIERIA GRANDIS var. ZULUENSIS N. E. Br.

Pretoria University, Pretoria, Transvaal.

254418. SANSEVIERIA KIRKII Baker

Tropical Africa.

254419. SANSEVIERIA KIRKII Baker

'Pulchra'.

254420. SANSEVIERIA PHILLIPSIAE N. E. Br.

Eastern Africa.

254421. SANSEVIERIA SCABRIFOLIA Dinter

Pretoria University, Pretoria.

254422. SANSEVIERIA SENEGAMBICA Baker

Senegambia.

254423. SANSEVIERIA SINGULARIS N. E. Br.

Tropical Africa.

254424. SANSEVIERIA sp.

254425. SANSEVIERIA STUCKEYI Godef.-Leb.

254426. SANSEVIERIA SUFFRUTICOSA N. E. Br.

British East Africa.

254427. SANSEVIERIA TRIFASCIATA Prain Liliaceae.

'Hahnii'.

254428 to 254431. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

From Lebanon. Seeds collected by M/Sgt. Floyd B. Hutton, APO 379, New York. Received Dec. 2, 1958.

254428. No. 1. Seeds light-colored. August 23, 1958.

254429. No. 2. Seeds dark-colored. September 12, 1958.

254430. No. 3. September 12, 1958.

254431. No. 4. August 16, 1958.

Melons round, to 12 inches in diameter, medium green in color; skins 0.38 inches thick; flesh dark-red, sweet. Apparently disease-free and ship well.

254432 to 254441. CORYLUS AVELLANA L. Betulaceae. **Filbert.**

From Turkey. Seeds presented by the United States Operations Mission, Ankara. Received Dec. 3, 1958.

254432. 'Incekara'.

254433. 'Kalinkara'.

254434. 'Kus'.

254435. 'Palaz'.

254436. 'Sirvi'.

254437. 'Sirvi yabani'.

254438. 'Tombul'.

254439. 'Tombul yabani'.

254440. 'Yassibaden'.

254441. 'Yuvarlak gadem'.

254442 to 254532. SIMMONDSIA CHINENSIS (Link) C. Schneid. Buxaceae. **Jojoba.**

From Mexico and Arizona. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Oct. 14, 1957. Numbered Dec. 4, 1958.

Collected July to September 1957, in Arizona unless otherwise indicated.

254442. Col. No. 7663. Coarse rocky soil. Elevation 2,500 feet. A mixed collection made in 1946.

254443. Col. No. 16470. Gravel slope. Elevation 2,000 feet. Shrub large with spreading 'white' branches; capsules long pointed, few two- or three-fascicled; seeds large, not bitter.

254444. Col. No. 16471. Gravel slope. Elevation 2,900 feet. Shrub symmetrical; seeds not bitter.

254445. Col. No. 16794. Gravel slope. Elevation 2,600 feet. Spreading shrub to three feet high; capsules long-pedunculate, more than 50 percent are three- to six-fasciculate, one- to two-seeded. The seed size and peduncle length are desirable characters and the progeny should be screened.

254446. Col. No. 16795. Gravel slope. Tall shrub with shoots to six feet long; flowers at every node; flowering prolific.

254447. Col. No. 16976. Gravel slope. Elevation 2,600 feet. Shrub to three feet high, open habit.

254448. Col. No. 16797. Gravel slope. Elevation 2,600 feet. Low-branched shrub to three feet high; capsules long-pedunculate, large, thick with single large seed. The low habit and large seeds suggest its progeny be tested for these characters and suitability to culture.

254449. Col. No. 16798. Gravel slope. Elevation 2,600 feet. Large, leafy shrub with long shoots; flowers at every node. Plant should be studied for yield possibilities.

254450. Col. No. 16799. Elevation 2,600 feet. Spreading bush to four feet high; capsules long; seeds long; wax content of seed 45.1%.

254451. Col. No. 16800. Gravel slope. Elevation 2,600 feet. Vigorous shrub to six feet high; shoots long; seeds large, yield light. Of interest for its tall vigorous habit.

254452. Col. No. 16801. Rocky slope. Elevation 2,600 feet. Large, heavy yielding shrub; capsules medium-size, ovoid; seeds single, oblong.

254453. Col. No. 16802. Rocky slope. Elevation 2,600 feet. Tall, bushy shrub; about 2% of capsules two- to three-fasciculate, but not dehiscing. The clustered fruit character and seed size makes this a lot for progeny selection.

254454. Col. No. 16803. Rocky gully. Elevation 2,600 feet. Shrub with medium size ellyptic capsules; wax content of seeds 42.8%.

254455. Col. No. 16804. Superior. Elevation 2,700 feet. Seeds from mixed collection.

254456. Col. No. 16807. Arboretum, Superior. Erect, symmetrical shrub to seven feet high with spreading crown, polypodial; flowers at alternate nodes; seed capsules long, few.

254457. Col. No. 16808. East of Superior, road to Phoenix. Elevation 2,000 feet. Robust spreading shrub to 4.5 feet high; leaves large, glaucous; seeds large, grooved, light brown.

254458. Col. No. 16809. Along Apache Trail. Elevation 3,000 feet. A mixed collection from shrubs below Roosevelt Dam.

254459. Col. No. 16814. Rocky alluvium, Cave Creek. Elevation 2,000 feet. Small, low-spreading bush; foliage light; capsules about 20% fruit, two- to four-fasciculate; flowers at every node. The clustered fruits should be reflected in the progeny by superior yielding individuals under cultivation.

254460. Col. No. 16815. Granitic alluvium, Cave Creek. Elevation 2,100 feet. Tall shrub, with open habit; foliage sparse, at every other node; capsules large, one- to three-seeded; seeds large.

254461. Col. No. 16816. Cave Creek. Elevation 2,100 feet. Seed collected from several shrubs.

254462. Col. No. 16817. Granitic sand, northeast of Camp Creek. Elevation 3,500 feet. Low-spreading, open shrub; stem few; leaves sparse, large; capsules large, single-seed; seeds large. Selected for low, open habit with non-bushy base and large seed.

254463. Col. No. 16818. Granitic sand, northeast of Cave Creek, along Camp Creek road. Elevation 3,100 feet. Slender, erect shrub; branches arching; fair set of large double-seeded capsules that dehisce. Selected for habit.

254464. Col. No. 16819. Granitic slope, two miles south of Camp Creek. Elevation 3,600 feet. Plant cold-hardy, six feet high; capsules few, which split freely on drying; seeds dark brown to black.

254465. Col. No. 16821. Granitic slope two miles south of Camp Creek. Elevation 3,600 feet. Small, spreading, cold-hardy shrub; leaves large, capsules large.

254466. Col. No. 16822. Granitic slope south of Camp Creek. Elevation 3,600 feet. Small, erect, cold-hardy shrub; leaves spares; seeds russet.

254467. Col. No. 16823. Granitic slope, camp Creek. Elevation 3,500 feet. Bush to six feet high; shoots long; capsules extremely long, slender. The long capsules may produce seeds of large size.

254468. Col. No. 16824. Granitic slope four miles south of Camp Creek. Elevation 3,100 feet. Shrub well-formed; leaves sparse; capsules small, good set, dehiscing readily; seeds single, russet colored, uniform.

254469. Col. No. 16825. Granitic slope four miles south of Camp Creek. Elevation 3,100 feet. Bush to nine feet high; leaves glaucous-green, thick; shoots strong; new growth setting flowers at every node; capsules ovate, thick; seeds dark brown, large, deeply furrowed, short. Probably of cold-hardy strain.

254470. Col. No. 16826. Granitic slope. Elevation 3,100 feet. Cold-hardy bush, six feet high; seeds large, black.

254471. Col. No. 16827. Granitic slope four miles south of Camp Creek. Elevation 3,100 feet. Tall, cold-hardy shrub with good habit, open at base; internodes long; capsules long one-seeded; seeds russet-colored.

254472. Col. No. 16828. Granitic slope, four miles south of Camp Creek. Elevation 3,100 feet. Tall, slender bush; internodes long; leaves sparse;

capsules, long-pedunculate; seeds large. The long-peduncled, large-seeded cluster of capsules, together with its slender vigorous habit in this northern locality, makes it one of the most outstanding shrubs encountered.

254473. Col. No. 16829. Granitic slope. Camp Creek. Elevation 3,100 feet. Large, spreading shrub, stems few; branches strong; capsules round, two- to three-seeded. Collected primarily for wax analysis of the round capsule form.

254474. Col. No. 16831. Granitic slope about four miles south of Camp Creek. Elevation 3,100 feet. Dense-branched bush to three feet high; internodes and peduncles short; capsules small, many two- to seven-fascicled, drying out prematurely.

254475. Col. No. 16833. Granitic slope. Camp Creek. Elevation 3,100 feet. Shoots long; leaves large, long; capsules few, long, dehiscing. May prove useful in breeding.

254476. Col. No. 16834. Granitic slope. Camp Creek. Elevation 3,100 feet. Bush three feet wide, five feet high; leaves glaucous; seeds large, dark-brown, scabrous; capsules two- to three-fascicled.

254477. Col. No. 16836. Granitic slope near wash. Cave Creek. Small, erect bush; capsules small; seeds small.

254478. Col. No. 16885. Tucson. Elevation 2,000 feet. Mature, cultivated bush, about 18 years old. Reported to yield small seed this year.

254479. Col. No. 16877. Igneous gravel, Kofa Mountains. Elevation 2,500 feet.

254480. Col. No. 16716. Rocky slope above Calentura, Baja California, Mexico. Elevation 1,000 feet. Spreading bush to four feet high; stems white; branches few-leaved, fruit bunches at every node, ripening prematurely. Collected June 20.

254481. Col. No. 16748. Sandy soil, Santo Tomas, Raja California, Mexico. Elevation 500 feet. Old, vigorous plant to five feet high; leaves large; shoots strong; capsules few, very large, thick-valved, one- to two-seeded, occasionally two- to three fascicled; peduncles long; seeds large, light brown color, ripening early, dehiscing freely.

254482. Col. No. 16750. Santo Tomas Valley, Baja California, Mexico. Elevation 1,000 feet. Seeds a mixed collection.

254483. Col. No. 16751. Rocky soil, Santo Tomas, Baja California, Mexico. Elevation 550 feet. Individual plant; fruit clustered, capsules small, regular, at every node.

254484. Col. No. 16754. Coarse alluvium, Santo Tomas, Baja California, Mexico. Elevation 500 feet. Individual plant; fruits two- to three-fascicled, prematurely ripening.

254485. Col. No. 16755. Sedimentary hills, Santo Tomas, Baja California, Mexico. Elevation 1,000 feet. Dense shrub; capsules clustered, prematurely ripening.

254486. Col. No. 16757. Coarse sandy soil, Santo Tomas, Baja California, Mexico. Elevation 500 feet. Large, spreading shrub; fruits about 20% fascicled; seed small, irregular, drought-inhibited.

254487. Col. No. 16766. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Low-spreading, cespitose shrub; fruits over 20% three- to five-fascicled; flowers at every node; capsules long, one- to three-seeded; seeds said to be largest found in the California group of fascicled fruit forms.

254488. Col. No. 16767. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Dense, bushy shrub to four feet high; flowers at every node; capsules heavy set, medium sized; seeds green, turning brown at maturity.

254489. Col. No. 16768. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Bushes green; branches erectly ascending; multi-stemmed; capsules small, about 10% two- to three-fascicled; flowers at every node; seeds small.

254490. Col. No. 16769. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Open spreading shrub with drought-killed branches; capsules old, long, obovate or bell-shaped; seeds large.

254491. Col. No. 16770. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Mixed collection.

254492. Col. No. 16771. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Shrub tall; branches long; leaves dark green, rugose; capsules dark-colored, long, with stiff, reflexed, sepal lobes.

254493. Col. No. 16772. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Tall, open shrub; capsules few, long; seeds brown in green unfilled capsules, splitting easily.

254494. Col. No. 16773. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Dense, spreading shrub about three feet high with many stems; seeds large, single with distal beak. Good for progeny selection for large seeds and vigorous shoot growth.

254495. Col. No. 16774. San Vicente (km. 198), Baja California, Mexico. Elevation 500 feet. Long, slender shrub; branches white; leaves sparse; flowers at every node; capsules long; seeds large.

254496. Col. No. 16775. Hilly slope, San Vicente (km. 198), Baja California, Mexico. Elevation 500 feet. Spreading shrub to four feet high; leaves large, green; capsules large, green, long-ovoid; peduncles medium length; seeds large.

254497. Col. No. 16776. Sandy mesa, San Vicente, Baja California, Mexico. Elevation 500 feet. Shrub to four feet high; leaves large, green; capsules large, long-ovoid; seeds large, dark brown with pubescent tip, mostly single.

254498. Col. No. 16777. Sandy mesa, San Vicente, Baja California, Mexico. Elevation 500 feet. Broomy habit, shrub to five feet high; capsules few, large, ovoid; seeds one to two, large, reddish, beaked, dehiscing.

254499. Col. No. 16778. Sandy mesa, San Vicente, Baja California, Mexico. Elevation 500 feet. Low, small shrub; leaves glaucous-gray, small; capsules pointed, numerous, drought-withered and sunburned; peduncles short to medium-long.

254500. Col. No. 16779. Sandy mesa, San Vicente, Baja California, Mexico. Elevation 500 feet. Spreading shrub to three feet high; branches irregular; leaves few; capsules medium-sized, fair set; pods short, one- to two-seeded.

254501. Col. No. 16780. Sandy mesa, San Vicente, Baja California, Mexico. Elevation 500 feet. Leafy shrub to four feet high; capsules small; seeds small.

254502. Col. No. 16781. Sandy mesa, San Vicente, Baja California, Mexico. Elevation 500 feet. Open habit; symmetrical shrub to four feet high; leaves few; capsules large, pointed, ovoid; seeds large.

254503. Col. No. 16782. Sandy mesa, San Vicente, Baja California, Mexico. Elevation 500 feet. Cespitose shrub to two feet high and six feet wide; branches curving; capsules few; seeds large.

254504. Col. No. 16784. Sandy mesa, San Vicente, Baja California, Mexico. Elevation 500 feet. Cespitose, spreading shrub; stems from base three feet high; branchlets strong and long-pedunculate; flowers at every node; capsules large, oblong, or variable, mostly single; seeds large. A good seeding type apparently carrying some genes for clustered fruits which may result in a percentage of progeny with this type; good fruiting forms in area.

254505. Col. No. 16785. Sandy mesa, San Vicente, Baja California, Mexico. Elevation 500 feet. Bush to two feet high; capsules round; seeds single, short, wrinkled, russet.

254506. Col. No. 16792. San Jacinto, Baja California, Mexico. Elevation 1,000 feet. Erect bush to six feet high; leaves large, green; flowers at every node; peduncles short; seeds deeply furrowed, early; capsules large, round, mostly one-seeded. Excellent habit and outstanding for capsule size.

254507. Col. No. 16793. Gravel soil, Rosarie, Baja California, Mexico. Open habit slender shrub; branches few, long, ascending; capsules few, long, prematurely ripened by drought.

254508. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Symmetrical, erect, vigorous, leafy, dense shrub; stems erect without bushy branching below; capsules slender, long-peduncles, few, occasionally fascicled; fruit late maturing. Potentially a heavy yielder.

254509. Col. No. 16838. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Large old shrub; capsules many, some fascicled, drought inhibited; seeds small.

254510. Col. No. 16839. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Old shrub to six feet high, fairly leafless at fruiting time; capsules small, two- to three-seeded; seeds small, drought-inhibited.

254511. Col. No. 16840. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Vigorous, open shrub to six feet high; branches strong, pliant; leaves dark green; capsules large, one- to two-seeded, about 20 percent are fascicled; peduncles long, strong.

254512. Col. No. 16841. Sandy alluvium, Calentura Valley, Baja California, Mexico. Elevation 200 feet. Narrow, erect shrub to six feet high; several stems, strict; branchlets short, stiff leaves clustered, green; capsules, many, fairsize, mostly green, starting to dehisce; seeds single, long, smooth, pubescent at tip, brown.

254513. Col. No. 16842. Sandy clay loam, San Vicente, Baja California, Mexico. Elevation 400 feet. Open habit shrub; branches few, elongate; leaves sparse, medium size; capsules large, one- to three-seeded, mostly single, on long peduncles; seeds large.

254514. Col. No. 16843. Sandy clay loam, San Vicente, Baja California, Mexico. Elevation 400 feet. Open shrub to four feet high; foliage gray, canescent; capsules small, numerous, at every node, one-seeded; calyx canescent; seeds very small, late maturing.

254515. Col. No. 16844. Clay soil, Santa Marta, Baja California, Mexico. Elevation 500 feet. Mixed collection.

254516. Col. No. 16847. Gravel fan, Santo Tomas, Baja California, Mexico. Elevation 500 feet. Multistemmed bush to three by six feet; internodes short; capsules about 20 to 30 percent two- to three-fascicled, hulls slip easily from calyx; seeds one to three, light brown, size variable.

254517. Col. No. 16862. Sandy alluvium, Calentura Valley, Baja California, Mexico. Elevation 200 feet. Old shrub to five feet high; foliage light green; flowers at every node; capsules ovoid, numerous; seeds variable.

254518. Col. No. 16872. Sandy alluvium, San Telmo Valley, Baja California, Mexico. Elevation 500 feet. Mixed collection from several heavy bearing shrubs.

254519. Col. No. 16873. Granitic alluvium, Calentura Valley, Baja California, Mexico. Elevation 300 feet. Round shrub to two feet high; capsules small, few; seeds small.

254520. Col. No. 16874. Sandy clay loam, Santo Tomas, Baja California, Mexico. Elevation 1,000 feet. Low spreading shrub; capsules numerous, clustered.

254521. Col. No. 16886. Alluvium soil, Calentura Valley, Baja California, Mexico. Elevation 500 feet. Seeds purchased from local residents.

254522. Col. No. 16386. Granitic alluvium, Aguanga, Baja California, Mexico. Elevation 2,400 feet. Dense, symmetrical shrub to five feet high; flowers early, at every node; capsules large, numerous, single-seeded; seeds small, The prolific flower set, twiggy habit, indicate a high yield potential under cultivation.

254523. Col. No. 16850. Granitic alluvium, Aguanga, Baja California, Mexico. Elevation 2,500 feet. Seeds from several shrubs with above average yield.

254524. Col. No. 16851. Granitic alluvium, Aguanga, Baja California, Mexico. Elevation 2,400 feet. Low, wide, cespitose shrub; shoots strong; capsules large; seeds few, larger than average for area.

254525. Col. No. 16852. Granitic alluvium, Aguanga, Baja California, Mexico. Elevation 2,400 feet. Shrub 14 feet high; capsules fair set, elongated, late maturing; seeds longer than average.

254526. Col. No. 16863. Bare, open slope; sedimentary formation, Eden Resort, Baja California, Mexico. Elevation 2,500 feet. Seeds from several mature shrubs; capsules few, small, beginning to dehisce.

254527. Col. No. 16865. Granitic alluvium, Joshua Tree, San Bernardino County, California. Elevation 3,000 feet. Spreading, symmetrical shrub to seven feet high, good habit, cold-hardy; capsules medium size, at every node; seeds mature, single, falling.

254528. Col. No. 16867. Granitic gravel, Barrett, San Diego County, California. Elevation 1,000 feet. Symmetrical, open shrub to four feet high; capsules light-seeded, matures late.

254529. Col. No. 16868. Granitic gravel, Barrett, San Diego County, California. A mixed collection.

254530. Col. No. 16869. Sedimentary loam and clay, Bonita, San Diego County, California. Elevation 400 feet. Seeds from several shrubs, larger ones from along highway benefitting from rain runoff.

254531. Col. No. 16870. Sedimentary clay loam, Bonita, San Diego County, California. Elevation 400 feet. Large, leafy, spreading shrub; seeds light set, large.

254532. Col. No. 16887. Sandy loam, Vista, San Diego County, California. Coit Experimental Planting. Seeds from plants in fifth year of growth without irrigation; large capsules at every node, dehiscing freely; seeds large.

254533 to 254565.

From Syria, Afghanistan and Iraq. Seeds collected by P. F. Knowles, collaborator, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Dec. 5, 1958. From Afghanistan unless otherwise noted.

254533. ALLIUM CEPA L. Liliaceae. **Onion.**

Col. No. K1732. 'Piass'. Kabul bazaar.

254534 and 254535. ALLIUM PORRUM L. **Leek.**

254534. Col. No. K1728. 'Candanah'. Kabul bazaar.

254535. Col. No. K1736. Kabul bazaar.

254536. ALLIUM sp.

Col. No. K1231. Ninety-seven km. north of Mosul, Iraq. Plants to six dm. high.

254537. ALLIUM sp.

Col. No. K1255. Vicinity of Sirank, 142 km. north of Mosul, Iraq. Plants to eight dm. high. Scarce.

254538. ALLIUM sp.

Col. No. K1783. Forty km. west of Ghazni.

254539. APIUM GRAVEOLENS var. RAPACEUM DC. Apiaceae. **Celeriac.**

Col. No. K1270. Kirkuk bazaar, Iraq.

254540. BRASSICA CAMPESTRIS L. Brassicaceae. **Bird rape.**

Col. No. K1275. Kirkuk bazaar, Iraq.

254541. BRASSICA CAMPESTRIS var. SARSON Prain **Sarson.**

Col. No. K1710. 'Shalgam'. Kabul bazaar.

254542. BRASSICA sp.

Col. No. K1711. 'Shalgam'. Kabul bazaar.

254543. BRASSICA CAMPESTRIS L. **Bird rape.**
Col. No. K1712. 'Shalgam Balgi'. Kabul bazaar.

254544. BRASSICA CAMPESTRIS var. SARSON Prain **Sarson.**
Col. No. K1744. 'Sharshamis'. Kabul bazaar.

254545. BRASSICA sp.
Col. No. K1767. 'Sharsham'. Ghazni bazaar. An oil crop.

254546. CAPSICUM FRUTESCENS L. Solanaceae. **Redpepper.**
Col. No. K1729. 'Moorch'. Kabul bazaar.

254547 to 254550. CICER ARIETINUM L. Fabaceae. **Chickpea.**
254547. Col. No. K1141. Damascus bazaar, Syria.
254548. Col. No. K1142. Damascus bazaar, Syria.
254549. Col. No. K1309. Salaimaniya bazaar, Iraq.
254550. Col. No. K1713. Kabul bazaar.

254551. CUCUMIS MELO var. FLEXUOSUS (L.) Naud. Cucurbitaceae.
Col. No. K1727. 'Tarahk'. Kabul bazaar.

254552. DAUCUS CAROTA L. Apiaceae. **Carrot.**
Col. No. K1726. 'Zardak Tbur'. Kabul bazaar.

254553 and 254554. LENS CULINARIS Medic. Fabaceae. **Lentil.**
254553. Col. No. K1147. Damascus bazaar, Syria.
254554. Col. No. K1149. Damascus bazaar, Syria.

254555. LUFFA ACUTANGULA Mill. Cucurbitaceae. **Singkwa towelgourd.**
Col. No. K1733. 'Turiee'. Kabul bazaar.

254556 to 254559. PHASEOLUS AUREUS Roxb. Fabaceae. **Mung bean.**
254556. Col. No. K1716. Kabul bazaar.
254557. Col. No. K1717. 'Mash'. Kabul bazaar.
254558. Col. No. K1741. 'Charasiah'. Bazaar south of Kabul.
254559. Col. No. K1765. 'Mash'. Ghazni bazaar.

254560. PRUNUS sp. Amygdalaceae.
Col. No. K1258. Mosul bazaar, Iraq.

254561 and 254562. RAPHANUS SATIVUS L. Brassicaceae. **Radish.**
254561. Col. No. K1276. Kirkuk bazaar, Iraq.
254562. Col. No. K1277. Kirkuk bazaar, Iraq.

254563. RUBUS sp. Rosaceae.
Col. No. K1191. South side of River Zab, Mosul-Erbil road, Iraq.

254564. RUMEX sp. Polygonaceae.
Col. No. K1779. Forty km. west of Ghazni.

254565. SPINACIA OLERACEA L. Chenopodiaceae. **Common spinach.**
Col. No. K1720. 'Polack'. Kabul bazaar.

254566. CITRUS SINENSIS (L.) Osbeck Rutaceae. **Sweet orange.**

From New Zealand. Budsticks presented by the Department of Science and Industrial Research, Auckland. Received Dec. 8, 1958.

'Rarotonga'. A seedless variety widely planted in New Zealand. Discovered in Rarotonga where it is used for making orange beer.

254567 to 254571.

From the Belgian Congo. Seeds presented by the Institut National pour l'Etude Agronomique, Yangambi. Received Dec. 29, 1958.

254567. ORYZA BRACHYANTHA A. Chev. & Roehr. Poaceae. **Rice.**

No. RE 570.

254568. ORYZA GLABERRIMA Steud. **Rice.**

No. RE 551.

254569. ORYZA PERENNIS Moench **Rice.**

No. RE 557.

254570. ORYZA PUNCTATA Kotschy ex Steud. **Rice.**

No. RE 534.

254571. ORYZA STAPFII Roshev. **Rice.**

No. RE 548.

254572. CRATAEGUS PINNATIFIDA Bunge Malaceae. **Chinese hawthorn.**

From the United States. Plant growing at the United States Plant Introduction Station, Glenn Dale, Maryland. Numbered Dec. 10, 1958.

254573 and 254574.

From Bolivia. Cuttings collected by Ira S. Nelson, Southwestern Louisiana Institute, Lafayette, Louisiana. Received Dec. 11, 1958.

254573. PODOCARPUS sp. Taxaceae.

Between Hiculoma and Coroico. Elevation 2,700 meters. Nov. 27, 1958.

254574. (Undetermined.)

No. 426. Cochabamba.

254575 and 254576. BETA VULGARIS L. Chenopodiaceae. **Sugar beet.**

From the Union of Soviet Socialist Republics. Seeds presented by the All-Union Institute of Plant Industry, Leningrad. Received Dec. 11, 1958.

254575. No. 411. 'Belotserkovskaya'. Collected at the Belotserkovskaya Station, Ukraine Republic.

254576. No. 828. Collected at the Kordelevski Station, Ukraine Republic.

254577. LYCOPERSICON GLANDULOSUM C. H. Mull. Solanaceae.

From Peru. Seeds collected by D. S. Correll and E. E. Smith, collaborators, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received May 5, 1958.

P–281. Between Yaso and Canta, Lima.

254578 to 254618.

From Great Britain. Plants purchased from Hillier & Sons, Winchester, England. Received Dec. 12, 1958.

254578. ATHEROSPERMA MOSCHATUM Labill. Monimiaceae.

254579. AZARA PETIOLARIS (Don) I. M. Johnst. Flacourtiaceae.

254580. BERBERIS LINEARIFOLIA Phil. Berberidaceae.

254581. BUXUS WALLICHIANA Baill. Buxaceae.

254582. COPROSMA PETRIEI Cheesem. Rubiaceae.

254583. DAPHNE HOUTTEANA Planch. Thymelaeaceae.

254584. DAPHNE sp.

254585. DRIMYS WINTERI var. ANDINA Reiche Magnoliaceae.

254586. DRIMYS WINTERI Forst. **Winterbark drimys.**

'Latifolia'.

254587. EUGENIA sp. Myrtaceae.

254588 and 254589. FABIANA IMBRICATA Ruiz. & Pav. Solanaceae.

254588. 'Prostrata'.

254589. 'Violacea'.

254590. HALIMIUM × CISTUS. Cistaceae.

A bigeneric hybrid. Flowers two inches across, pearly white, with a penciled zone of crimson-maroon and yellow blotches at the base of the petals.

254591. HYDRANGEA INTEGERRIMA (Hook. & Arn.) Engler Hydrangeaceae.

254592. ILEX CASSINE Walt. Aquifoliaceae. **Dahoon.**

254593. ILEX CORALLINA Franch. **Coral holly.**

254594. ILEX FICOIDEA Hemsl. **Holly.**

254595. ILEX FRAGILIS Hook. f. **Holly.**

254596. ILEX HOOKERI King. **Holly.**

254597. ILEX INSIGNIS Hook. f. **Holly.**

254598. ILEX INTRICATA Hook. f. **Nepal holly.**

254599. ILEX PURPUREA Hassk. **Holly.**

YU 10918.

254600. LAURELIA SERRATA Bert. Monimiaceae.

254601. KUNZEA SERICEA (Labill.) Turcz. Myrtaceae.

254602. MYRSINE RETUSA Soland. Myrsinaceae.

254603. OLEARIA CHATHAMICA T. Kirk. Asteraceae. **Daisytree.**

254604. OLEARIA (hybrid). **Daisytree.**

O. ilicifolia × *O. lacunosa*.

254605. OLEARIA LACUNOSA Hook. f.

254606. OLEARIA sp.

254607. PASSIFLORA × \LLARDII Chitt. Passifloraceae. **Passionflower.**

254608. PASSIFLORA MIXTA L. **Passionflower.**

254609. PENTAPTERYGIUM (hybrid). Vacciniaceae.

'Ludgvan'. (*P. rugosum* × *P. serpens*).

254610. PENTAPTERYGIUM RUGOSUM Hook.

254611. AGAPETES SERPENS (Wight) Sleumer Vacciniaceae.

254612. × PHILAGERIA VEITCHII Masters Liliaceae.

(*Lapageria* × *Philesia*).

254613. PHYLICA sp. Rhamnaceae.

254614. PITTOSPORUM DIVARICATUM Cockayne Pittosporaceae.

154615. POMADERRIS PHYLICAEFOLIA Lodd. Rhamnaceae.

254616. REEVESIA THYSOIDEA Lindl. Sterculiaceae.

254617. TRACHELOSPERNUM sp. Apocynaceae.

254618. WEINMANNIA TRICHOSPERMA Cav. Cunoniaceae.

254619. GOSSYPIUM BARBADENSE L. Malvaceae. **Sea-island cotton.**

From Argentina. Seeds presented by the Division de Exploraciones e Introduccion de Plantas, Ministerio de Agricultura, Buenos Aires. Received Dec. 15, 1958.

Native to the Chaco region.

254620. RUBUS sp. Rosaceae.

From Bolivia. Seeds collected by Ira S. Nelson, Southwestern Louisiana Institute, Lafayette, Louisiana. Received Dec. 15, 1958.

No. 77. Near Siberia. Oct. 3, 1958. Elevation 2,750 meters.

254621. FICUS SOLDANELLA Warb. Moraceae. **Fig.**

From the Union of South Africa. Seeds presented by the Division of Botany, Pretoria, Transvaal. Received Dec. 16, 1958.

Much-branched compact bush; leaves roundish, cordate, to six inches long; fruits axillary, globose, three-fourths of an inch in diameter. Native to South America.

254622 to 254624. CITRULLUS VULGARIS Schrad. Cucurbitaceae. **Watermelon.**

From the Sudan. Seeds presented by the Department of Agriculture, Khartoum. Received Dec. 18, 1958.

254622. 'Bol El Homar'. Grown in central, northern and eastern Kordofan. Flesh white; seeds cream-colored; maturing later than 'Nahudi'. Can be stored for long periods.

254623. 'Nahudi'. Grown in Hamar District. Flesh white; seeds white. Can be stored for about 18 months. Best of these three varieties.

254624. 'Red'. Grown in central and northern Kordofan. Flesh white; seeds red; quality poor, but can be stored for long periods.

254625 and 254626. PISUM SATIVUM L. Fabaceae. **Garden pea.**

From Australia. Seeds presented by the Department of Agriculture, Sydney, New South Wales. Received Dec. 18, 1958.

254625. 'Kellerva'. Formerly from Finland.

254626. 'Lima'. Origin unknown. Introduced to New South Wales before 1928.

254627. ALLIUM CEPA L. Liliaceae. **Onion.**

From the Union of Socialist Republics. Seeds held by the Vegetables and Ornamentals Research Branch, Crops Research Division, Beltsville, Md. Numbered Dec. 22, 1958.

Collected at the Stalin Collective Farm, Tashkent. August 5, 1958. Plants planted very thick in the row; bulbs light tan, 1.5 inches in diameter, round; moderately strong; multiplier type.

254628 and 254629. ALLIUM AMPELOPRASUM var. HOLMENSE Graebn. & Kirchin. Liliaceae.

From Italy. Bulbs presented by L. Chiarappa, Rome. Received Dec. 19, 1958.

254628. From Stintino, Sardinia. October, 1958.

254629. From the Istituto Botanico, University of Rome, Rome. October, 1958.

254630 to 254635. SACCHARUM (hybrids). Poaceae. **Sugarcane.**

From Cuba. Cuttings presented by the Department of Agriculture, Havana. Received Dec. 22, 1958.

254630. C. 104–49.

254631. C. 525–50.

254632. C. 529–50.

254633. C. 540–47.

254634. C. 676–47.

254635. C. 693–47.

254636 to 254643.

From Great Britain. Presented by the Royal Horticultural Society Gardens, Wisley, Surrey, England. Received Dec. 23, 1958.

Formerly from Turkey.

254636 and 254637. Plants.

254636. ALLIUM sp. Liliaceae.

K. W. 22754.

254637. ALLIUM sp.

D. H. 26693.

254638 to 254643. Seeds.

254638. ALLIUM STENOPETALUM Boiss. & Ky.

D. H. 26720. Mur Dag, Cilicia, Adana Province. Elevation 360 feet.

254639. ALLIUM sp.

D. H. 27601.

254640. ALLIUM ROTUNDUM L.

D. H. 28487. Mardin-Musaybin, Mardin Province. Elevation 2,250 feet.

254641. ALLIUM AKAKA Gmel.

D. H. 29387. Pasinler-Horasan, Erzerum Province. Elevation 4,950 feet.

254642. ALLIUM SCHOENOPRASUM L.

D. H. 31427. Munzar Dag, above Ovacik, Tunceli Province. Elevation 4,900 feet.

254643. ALLIUM sp.

254644 to 254665. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From the United States. Seeds held at the Regional Plant Introduction Station, Ames, Iowa. Numbered Dec. 24, 1958.

254644. Van Wert, Ohio

254645. Rick LA 155–5–M–17–3

254646. Rick LA 83–4–M

254647. Rick LA 258–1–14

254648. Burdick 91–17

254649. Glecker Golden Glow–10

254650. Butler–11–8–15

254651. Butler–2–G2–1

254652. Glecker-Evergreen–3–17

254653. Ker–1–2

254654. Kerr–1–12

254655. Kerr–1–M

254656. Burdick 200–19

254657. Butler–12–5

254658. P. A. Young G–1734C–10

254659. Hoffman Globe A.

254660. Rutgers, spontaneous–17–6–M–9–6–6–3

254661. Ohio W–R Globe, colchicine–5–17–5–M

254662. (P.I. 212425–18–1 x Butler pr)–3

254663. (Bishops sl x P.I. 212425–18)–17

254664. Stevenson–23

254665. Larson, John Baer

254666. JARILLA CHOCOLA Standley Caricaceae.

From Mexico. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Dec. 29, 1958.

Col. No. 17679. 'Chocola'. San Bernardo, Sonora. Nov., 1958. A perennial papaya relative, to seven feet high; roots fleshy, edible, comparable to potato in starch content.

254667. CHAMAECYPARIS LAWSONIANA (Murr.) Parl. Pinaceae.
Lawson falsecypress.

From Ireland. Plants presented by the Slieve Donard Nursery Co., Ltd., Newcastle. Received Dec. 29, 1958.

'Argentea'.

254668 to 254678.

From Tasmania. Seeds presented by the Tasmanian Regional Laboratory, Commonwealth Scientific and Industrial Research Organization, Hobart. Received Dec. 29, 1958.

254668. CASUARINA DISTYLA Vent. Casuarinaceae.

Mount Arrowsmith.

254669. EUCALYPTUS COCCIFERA Hook. f. Myrtaceae.

Pine Lake.

254670. EUCALYPTUS OVATA Labill.

Miena, Great Lake.

254671. EUCALYPTUS GLOBULUS Labill. **Blue gum.**

Breona.

254672. EUCALYPTUS SUBCRENULATA Maiden & Blakely

National Park. High elevation.

254673. EUCALYPTUS SUBCRENULATA Maiden & Blakely

National Park. Forest type.

254674. EUCALYPTUS TASMANICA Blakely

Plant not very hardy. Juvenile foliage ornamental.

254675. EUCALYPTUS PERRINIANA (F. Muell.) Rodw.

Plant not very hardy. Juvenile foliage ornamental.

254676. EUCALYPTUS PAUCIFLORA Sieb. **White gum.**

Breona. Fruits large.

254677 and 254678. EUCALYPTUS SIMMONDSII Maiden

254677. Mount Arrowsmith. Fruits large.

254678. Mount Arrowsmith. Fruits small.

254679. PHASEOLUS PANDURATUS Mart. Fabaceae.

From Brazil. Seeds presented by the Instituto Agronomico, Campinas, Sao Paulo. Received Dec. 29, 1958.

254680. IPOMOEA sp. Convolvulaceae.

From Mexico. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Branch, Crops Research Division, Beltsville, Md. Received Dec. 29, 1958.

Col. No. 17651. Sejaqui, Sonora. Elevation 1,500 feet. Vine, flowers blue; possibly *I. pedicellaris*.

254681 to 254691.

From Japan. Plants presented by T. Rokujo, Senkawa-Machi, Tokyo. Received Dec. 30, 1958.

254681 to 354683. CAMELLIA JAPONICA L. Theaceae. **Common camellia.**

254681. 'Hana-Fuki'.

254682. 'Komyo'.

254683. 'Serratifolia'.

254684. CAMELLIA RETICULATA Lindl.

'Kotcho-Wabisuke'.

254685 to 254689. CAMELLIA RUSTICANA Honda

254685. 'Kirin-no-Homare'.

254686. 'Koshi-no-Haru'.

254687. 'Koshi-no-Hime'.

254688. 'Seki-no-Yume'.

254689. 'Yuki-komachi'.

254690. CAMELLIA SASANQUA Thunb. **Sasanqua camellia.**

'Asahi-Botan'.

254691. CAMELLIA sp.

'Uraku Kitamuru'.

254692. SOLANUM MURICATUM Ait. Solanaceae. **Pepino.**

From Guatemala. Cuttings presented by the United States Operations Mission, Guatemala City. Received Dec. 30, 1958.

254693 and 254694.

From the Union of South Africa. Material presented by the Department of Agriculture, Pretoria. Received Dec. 31, 1958.

254693. SENECIO TAMOIDES DC. Asteraceae.

(Plants.)

254694. MUSA DAVYAE Stapf Musaceae.

(Seed.)

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*If the species of a genus do not have distinct common names they share the same common name as the genus.

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