mentioned. As a supplement, "Frutales de Clima Templado" (Casseres (Editor), 1966. Instituto Interamericano de Ciencias Agricolas de la OEA. Turrialba, Costa Rica. 151 pp.) treats with the principles of growing fruit crops in the temperate (mountain and high plateau) regions of the tropics.

Unfortunately, no adequate single text exists for a course in tropical olericulture. In Spanish, "Produccion de Hortalizas" (Casseres, 1966. Instituto Interamericano de Ciencias Agricolas, Turrialba, Costa Rica. 280 pp.) is a valuable start. The book is organized around principles and practices of production, rather than around crops. Also included is useful information on origin and taxonomy of vegetable crops. This is an informative text, but of course limited to Spanish-speaking readers.

"Vegetable Production in Southeast Asia" (Knott and Deanon, 1967. University of the Philippines Press, College, Laguna. 406 pp.) is of particular value for its treatment of little-known vegetables of the area involved. Production systems for more familiar vegetables are also given, with special emphasis on experience gained in the Philippines and Taiwan. Introductory chapters on principles (soils, pest control) are supplemented by information on status and needs. The sections on handling, and seed production are particularly worthwhile. This is probably the best text available on tropical olericulture.

Several paperback publications may

be used to round out the course in tropical vegetable culture. "Vegetable Gardening in the Caribbean Area" (Winters and Miskimen, 1967. Agricultural Handbook No. 323, U. S. Government Printing Office, 114 pp.) covers most vegetable crops in a cursory fashion. Sections on practices, pests, and diseases are particularly useful and fairly up to date. "Fruits and Vegetables in West Africa" (FAO, 1965. Rome, Italy. 259 pp.) is of special interest available, but those are beyond the because of the region involved. "Tropical Vegetables, Vegetable Growing in the Tropics and Subtropics, Especially of Indigenous Vegetables" (Terra, 1966. Comm. 54e, Dept. Agric. Research, Royal Tropical Institute, Amsterdam, Holland, 107 pp.) is very interesting because of its encyclopedic coverage of even minor vegetables. I have not seen a list of vegetables as

I have purposely not mentioned some older works which now need some revision. These should be part of any library on tropical agriculture, however. Not all such worthwhile old-timers are included in the list below:

Macmillan, H. F. 1935. Tropical Planting and Gardening. Macmillan and Co., London, 558

Nicholls, H. A., and Holland, J. H. 1940. A Text-Book of Tropical Agriculture. Macmillan and Co., London, 639 pp.

Ochse, J. J. 1931. Vegetables of the Dutch East Indies. Arch. Druk. Buitenzorg, Java. 1006 pp.

Popenoe, W. 1920 Manual of Tropical and Subtropical Fruits. The Macmillan Co., New York.

Barrett, O. W. 1928. The Tropical Crops. The Macmillan Co., New

Barrett, O. W. 1930. Los Cultivos Tropicales. Cultural, S. A., Havana, Cuba. 525 pp.

Many treatments of specific crops are scope of this review.

Some excellent journals cover tropical horticultural crops. Among these are Tropical Agriculture (Trinidad), Horticultural Abstracts (East Malling), Tropical Abstracts (Amsterdam), and Fruit D'Outre-Mer (Paris). A variety of other journals, often in Spanish or Portuguese, are frequently useful.

In summary, no single text of wide applicability is available for the course in tropical horticulture. Problems of generality, incompleteness, or language limit any single publication. A library of the better books may be out of the reach of the student, but the instructor at least should have adequate literature on hand for his own reference. The preparation of a course in tropical horticulture is bound to reflect some confusion due to the immense scope of the field and the lack of a condensed text. A good one-volume text in tropical horticulture, covering both principles, practice, and fruit and vegetable crops, is sorely needed.

# New Vegetable Varieties List XVII<sup>1</sup>

Compiled by the Garden Seed Research Committee American Seed Trade Association and Edited by W. C. Barnes<sup>2</sup> Clemson University, Charleston, South Carolina

Sixteen prior lists of new vegetable varieties introduced since 1936 were published in Vols. 63, 65, 67, 69, 70, 75, 77, 82, 84, 86, 88, 90, and 92 of Proceedings of the American Society for Horticultural Science, and Vol. 4 No. 1 of HortScience.

The following abbreviations are used: exp. desig.--experimental designation; orig .-- originated at or by; intr.--introduced by; par.--parentage or parents; char .-- outstanding characteristics; res.--resistant to; sim.--similar to or resembles; sel.--selection or selected; sl.--slight or slightly; adapt .-- adapted to or adaptation.

BEAN, FIELD

ATLAS-1968-Orig. and intr. by Stokely-Van Camp, Inc. Char. small, white. Res. certain viruses in Columbia Basin. Adapt. wide.

<sup>&</sup>lt;sup>1</sup>Received for publication February 9, 1970.

<sup>&</sup>lt;sup>2</sup>Truck Experiment Station.

ROYAL RED (Exp. desig. K-67 Red Kidney Bean)--1968--Orig. by USDA and Wash. State AES, Prosser. Intr. by Wash. State Crop Imp. Assoc. Par. curley top-res. type x Dark Red Kidney. Char. tall, erect bush with pods high on plant. Sim. Dark Red Kidney. Res. curly top and BV1. Adapt. Northwest, West and Mid-west.

SEAFARER (Exp. desig. 0173)--1968--Orig. by Mich. State AES, East Lansing, and USDA. Par. complex, involving X-ray mutants, Michelite, Emerson 847, Trag, and Fla. Belle. Char. early, erect, determinate plant. Sim. Seaway navy. Res. common BV, anthracnose. Adapt. Great Lakes basin.

( E x p . desig. 65-4-74)--1969--Orig. by Nebr. AES, Lincoln, Par. Great Northern 1140 x Great Northern Nebraska 1-27. Char. dark green foliage, sl. more vigorous and 3-7 days later than G.N. UI 59. Sim. Great Northern #1. Res. tolerant common bacterial blight. Nebr. AES Bul. 506. 1969.

### BEAN, GARDEN

BUSH BLUE LAKE 141 (Exp. desig. Code 141)--1969--Orig. and intr. by Charter Seed Co. Char. moderately erect plant with pods having many Blue Lake attributes borne high. Sim. Bush Blue Lake, Res. BV1 and N.Y. 15. Adapt. wide.

CASCADE (Exp. desig. KB-3)--1966--Orig. and intr. by Keystone Seed Co. Par. Tendercrop x 154-40. Char. dark, round 51/2 in. low fiber pod, mechanical harvest. Sim. 15. Adapt. wide.

CATSKILL (Exp. desig. KB-4)--1966--Orig. and intr. by Keystone Seed Co. Char. round, smooth, light green 5 to 6 in. pods. High percent size 4 pods, mechanical harvest. Res. common BV.

CLASSIC (Exp. desig. Greenpod 150)-1970-Orig. and intr. by Rogers Bros. Co. Char. dark green, Tendercrop type bush. Slender in sieve size. Res. Curly top, BV1 and summer death (Australia). Adapt. West, Midwest, and East. U. S.

DEL REY-1969-Orig. and intr. by Northrup, King & Co. Char. Harvester type with darker pod. Sim. Harvester.

MAESTRO (Exp. desig. XP 289)-1968-Orig. and int. by Asgrow Seed Co. Char. slender, white seed, color, excellent quality. For "baby round pod, usually free from carrot" and home garden use. creasebacking. Sim. Slimgreen. Res. N. Y. 15. Adapt. general. Asgrow's "What's New for 1969.'

MOONGOLD (Exp. desig. 2807)--1969--Orig. and intr. by Northrup, King & Co. Char. slim pod wax, medium short plant. Res. common

OLYMPIA (Exp. desig. KB-2)--1966--Orig. and intr. by Keystone Seed Co. Char. medium green, small 5 to 5½ in. pods, mechanical harvest. Res. common BV. Keystone Catalog.

WONDERGREEN (Exp. desig. 64489)--1968--Orig. and intr. by Rogers Bros. Co. Par. USDA 1343 x Gallatin 50. Char. Tendercrop type bush, concentrated set, cream seeded. Sim. Tendercrop. Res. common BV, curly top. Adapt. general. Rogers Bros. Catalog 1969.

# **CABBAGE**

GREEN BOY (Exp. desig. #63)--1968--Orig. by Sakata. Intr. by Northrup, King & Co. Hybrid. Char. mid-early, round head, medium stem, gray-green color for market or kraut. Res. tolerant yellows.

JET PAK (Exp. desig. 925)-1970-Orig. and intr. by Northrup, King & Co. Hybrid. Char. hard head, medium core, Golden Acre season. Sim. Golden Acre. Res. yellows.

RED HEAD (Exp. desig. 5587)--1969--Orig. and intr. by Keystone Seed Co. Hybrid. Char. mid-season, red, sperical heads, holds well. Sim. red market types. Keystone Catalog.

VENTURA (Exp. desig. Tendercrop. Res. Common BV and N.Y. 7933)--1969--Orig. and intr. by Keystone Seed Co. Par. selfed Copenhagen Market #53 selection. Char. sperical heads, small frame, semi-procumbent skirt leaves with slightly waved margins. Sim. Copenhagen Market. Keystone Catalog.

#### **CANTALOUPE**

PLANTERS JUMBO (Exp. desig. 67-1)--1969--Orig. by USDA. Vegetable Breeding Lab., Charleston, S. C. Char. large, well netted fruit. Sim. Hales Best Jumbo. Res. downy and powdery mildews.

#### **CARROT**

BUNNY BITE (Exp. desig. E8205)--1971-Orig. and intr. by Ferry-Morse Seed Co. Char. miniature Chantenay, excellent early developing

Keystone Seed Co. Par. European Adapt. wide.

forcing type used in parentage. Char. early, small, spherical, good color root for whole pack processing. Adapt. wide.

SPARTAN-SWEET (Exp. desig. 67S32m MSU 7707)-1969- Orig. by Mich. State AES, East Lansing. Intr. by Crookham Co. Hybrid. Par. MSU 5931 x MSU 6000. Char. excellent interior and exterior color, free from green shoulder and core, good flavor. Res. Cercospera leafspop. Adapt. Northern mucklands.

# CORN, POP

FIRESIDE--1969-Orig. by N. H. AES., Durham, N. H. Par. Tom Thumb x Strawberry. Char. early, dwarf plants, with two mahogany red or golden ears. Adapt. general.

# CORN, SWEET

BUTTERSWEET (Exp. desig. 5 M 0 0 0) -- 1968 -- Orig. and intr. by Keystone Seed Co. Char. Hybrid. Mid-season, processing, white silk, 20 rows, tender large ears. Holds well for mechanical harvest. Adapt. processing areas. Keystone Catalog.

E A R L YG O L D E NGIANT-1968-Orig. by Univ. Mass. AES, Amherst. Par. Ma CX 13 x Ma CSNT. Char. first early commercial hybrid with large ear. Sim. North Star. Res. bacterial wilt. Adapt. Northern

EARLY XTRA-SWEET--1970--Orig. and intr. by Ill. Foundation Seeds, Inc., Urbana. Char. hybrid, high sugar, slow starch conversion. Sim. Illini Xtra Sweet. Adapt. North and North Central

GOLDENCHIEF--1968-Orig. by Sweet Corn Genetic Service. Char. hybrid, long husk, bird resistant, excellent root system. Sim. Seneca Chief. Res. wind and bird damage.

HY-TIME--1969--Orig. and intr. by Charter Seed Co. Char. hybrid, week earlier than Golden Cross Bantam, 16 row, 7½ to 8 inch ear, yellow deep kernels, high quality, minimum tillering. Adapt. general.

SILVER BEAUTY-1968-Orig. and intr. by Sweet Corn Genetic Service. Char, unusually sweet and tender, white hybrid, good husk cover. Sim. Golden Cross but white. Adapt. general.

SUPER CHIEF (Exp. desig. Code 559)-1970-Orig. and intr. by Charter Seed Co. Char. early hybrid, attractive, NUGGET-1968-Orig. and intr. by high quality ear. Sim. Seneca Chief. TRIUMPHANT (Exp. desig. SRX 207)--1969--Orig. and intr. by Niagara Chemical Div. FMC Corp. Char. main season processing hybrid, ears 16-18 rows, well filled, good husk cover, tender, excellent holding. Adapt. Mid-west and Mid-Atlantic.

ULTRASWEET (Exp. desig. 5E. YT)-1968-Orig. and Intr. by Sweet Corn Genetic Service. Char. crisp but tender, high natural flavor. Plant adapted to narrow row planting. Res. wind and bird damage.

ULTRATENDER--1968--Orig. and intr. by Sweet Corn Genetic Service. Char. processing hybrid, brilliant gold color, high cutting percentage, holds well. Res. smut, drought and wind. Adapt. main corn areas.

WONDERGOLD (Exp. desig. Exp. 6657)--1969--Orig. and intr. by Northrup, King & Co. Char. hybrid, white silk, 18 row, narrow deep kernels. Sim. NK 199.

YUKON (Exp. desig. 6618)--1969--Orig. and intr. by Northrup, King & Co. Char. hybrid, white silk, Carmel Cross season, 16 row yellow. Sim. Queen Ann.

#### **CUCUMBER**

COMANCHE--1967--Orig. and intr. by Dessert Seed Co. Hybrid. Par. Gy 54 x MSU 915. Char. medium length, dark green, blunt end fruit. Market type. Sim. Poinsett. Res. scab and mosaic. Adapt. wide.

DIXIE 23 (Exp. desig. P 23)--1970--Orig. and intr. by Ferry-Morse Seed Co. Hybrid. Par. Gy 3 x Variety sel. Char. white spine, gynoecious hybrid, medium plant vigor. Sim. Explorer. Res. tolerant powdery and downy mildews, anthracnose and angular leafspot. Adapt. Southern U. S.

GALAXY (Exp. desig. S.C. 23)--Orig. by Clemson Univ. AES, Charleston, S. C. and Asgrow Seed Co. Intr. by Asgrow Seed Co. Par. complicated, using PI 197087, 196289 and Asgrow lines. Char. white spine pickle, medium, dark green fruit with slowly developing seed and small seed cavity. L/D 2.9. Sim. Chipper and Pixie. Res. downy and powdery mildews, anthracnose, angular leafspot, CMV. Adapt. South.

SPARTAN ADVANCE (Exp. desig. MSU 6515-3)--1970--Orig. by Mich. AES, East Lansing. Intr. by Castle Seeds. Par. MSU 35G x MSU 305M. Char. gynoecious hybrid with high fruit count for mechanical harvest. Sim. Picadilly and Spartan Progress. Res. scab and CMV. Adapt. West and upper Mid-West.

#### **EGGPLANT**

POMPANO PRIDE--Orig. and intr. by Niagara Chemical Div. FMC Corp. Char. long oval fruits of uniform black purple color. Sim. Florida Market. Res. Phomopsis. Adapt. general.

#### LETTUCE

CHESIBB (Exp. desig. MSU 16)-1970-Orig. by Mich. State AES, East Lansing. Par. Chestnut 5-B x Bibb. Char. greenhouse type, two weeks earlier and lighter green than Bibb. Small soft head. One week earlier than Bibb on muck soil. Adapt. greenhouse and muck soil in Mid-west. Mich. AES Research Rept. 1969.

TENDER CR ISP-1969--Orig. and intr. by Keystone Seed Co. Char. Bibb type, with glossier appearance, crisp, high quality. Sim. Bibb types. Adapt. same as Bibb. Keystone Catalog.

#### **PEAS**

B O N U S (Exp. desig. XP-L-14)--1968--Orig. and intr. by Asgrow Seed Co. Char. freezer in Dark Skin Perfection season, with highly doubled and tripled pods. Sim. Dark Skin Perfection. Res. race 1 Fusarium wilt. Adapt. general. Asgrow's "What's New for 1969."

HY-PAK (Exp. desig. Code 830)-1969-Orig. and intr. by Charter Seed Co. Char. hardy canner type producing medium size berries, dependable under stress. Sim. Early Perfection. Adapt. general.

MARS (Exp. desig. XP 67)--1968--Orig. and intr. by Asgrow Seed Co. Char. mid-season, medium vine, relatively large seeded freezer type. Sim. Signet but shorter vine. Res. race 1 Fusarium wilt. Adapt. wide. Asgrow's "What's New for 1969."

## **PUMPKIN**

TRICKY JACK-1969-Orig. by N. H. AES, Durham, N. H. Intr. by Farmer Seed and Nursery. Par. Sweetnut x Cheyenne Bush. Char. early bush plant with bright orange jack O'lantern and pie fruits, naked seed. Adapt. general.

# **RADISH**

WHITE PRINCE--1969--Orig. and intr. by Keystone Seed Co. Char. tops short, roots slowly developing, spherical, white. Adapt. wide. Keystone Catalog.

#### SOYBEAN, EDIBLE

KAHALA (Exp. desig. 288 BB 4-6-3-3)-1969-Orig. and intr. by Univ. Hawaii AES, Honolulu, Hawaii. Par. UD 288 and Bansei. Char. vigorous, leafy plant, pods held high. Sim. UD 288. Res. root-knot nematode. Adapt. tropical and sub-tropical. Hawaii AES Research Rpt. 178.

KAIKOO (Exp. desig. 288 BB 24-9-3-6)--1969--Orig. and intr. by Univ. Hawaii AES, Honolulu, Hawaii. Par. UD 288 and Bansei. Char. white flowered pods held high on plant. Grows on variety of soils. Sim. Bansei. Res. root-knot nematode. Adapt. tropical and sub-tropical. Hawaii AES Research Rpt. 178.

KAILUA (Exp. desig. 288 BB 4-7-1-3)--1969--Orig. and intr. by Univ. Hawaii AES, Honolulu, Hawaii. Par. UD 288 and Bansei. Char. dark green foliage, white flowers, pods easy to pick. Sim. UD 288. Res. root-knot nematode. Adapt. tropical and sub-tropical. Hawaii AES Research Rpt. 178.

MOKAPU SUMMER (Exp. desig. 288 BC 28-1-2-2)--1969--Orig. and intr. by Univ. Hawaii AES, Honolulu, Hawaii. Par. UD 288 and Bansei. Char. purple flowers, large pod and seed, good flavor. For summer harvest. Sim. Bansei. Res. root-knot nematode. Adapt. tropical and sub-tropical. Hawaii AES Research Rpt. 178.

#### SQUASH

PRIMA QUALITA (Exp. desig. SRX 301)--1968--Orig. and intr. by Niagara Chemical Division, F.M.C. Corp. Char. hybrid, open sturdy bush, dark green, long fruits. Sim. Zucchini. Adapt. general.

WALTHAM BUTTERNUT-1970-Orig. by Univ. Mass AES, Waltham. Par. African and N. H. Butternut. Char. greater uniformity, shape and color. Better flavor. Sim. Butternut. Adapt. wide. All America winner.

#### **TOMATO**

MINI RED CHERRY-1968-Orig. and intr. by Burgess Seed & Plant Co. Char. regular size cherry fruits on small plant. Burgess 1969 catalog.

MINI RED CURRANT-1968-Orig. and intr. by Burgess Seed & Plant Co. Char. regular currant fruits on small compact plant. Burgess catalog.

MINI RED PEAR--1968--Orig. and intr. by Burgess Seed & Plant Co. Char. regular red pear fruit on small compact plant. Burgess catalog 1960.

1970

1968

1968

1969

1969

1970

1969

1969

MINI RED PLUM-1968--Orig. and intr. by Burgess Seed & Plant Co. Char. regular red plum fruit on small compact plant. Burgess catalog 1969.

PARKER (Exp. desig. 68 B 29)--1969-Orig. and intr. by USDA, Beltsville, Md. Par. Roma x Calif. VR sel. Char. early, small vine, Italian paste type, heavy set 1.6 oz. size fruit. Sim. Harvester. Res. Verticillium and Fusarium wilts. Adapt. Eastern U. S.

SUNSET (Exp. desig. UNH 11-67)--1970--Orig. by Univ. N. H.,

Durham. Intr. by Farmer Seed & Verticillium wilts, gray leafspot and Nursery. Par. complicated. Char. graywall. Adapt. Southeast. Univ. Fla. productive, determinate vine with AES Cir. S-198, 1969. uniform ripening, large globe fruit. Moderately res. to cracking. Sim. Starfire. Adapt. North.

WATERMELON TROPIC (Exp. desig.

216)--1969--Orig. by Florida AES, 60-27)--1969--Orig. by U. S. Vegetable Bradenton. Par. 479-6-1 CASTMW x Breeding Lab., Charleston, S. C. Par. 18-D2-D4-8-1. Char. trellis type, Fairfax x Blackstone. Char. extra large, vigorous vine, fruit large, attractive and slightly round fruit. Sim. Fla. Giant. deep in polar dimension. Sim. Manalucie Res. Fusarium wilt and race 1 and Manapal. Res. race 1 Fusarium and anthracnose.

Galaxy

Hv-Pak

Jet Pak

Kahala

Kaikoo

Hy-Time

Goldenchief

Green Boy

SUMMERFIELD (Exp. desig.

Cucumber

Cabbage

Cabbage

Pea

Corn, sweet

Corn, sweet

Soybean, edible

Soybean, edible

# SEEDSMEN SUBMITTING VARIETIES FOR NAMING ON ASHS VEGETABLE VARIETY LIST XVII

Asgrow Seed Co Orange, Conn. 06477
Burgess Seed and Plant Co Galesburg, Mich. 49053
Castle Seed Farms Morgan Hill, Calif. 95037
Charter Seed Co Twin Falls, Idaho 83301
Crookham Co Box 520, Caldwell, Idaho 83605
Dessert Seed Co Box 181, El Centro, Calif. 92243
Farmer Seed and Nursery Co Faribault, Minn. 55021
Ferry-Morse Seed Co
Mountain View, Calif. 94040
Illinois Foundation Seeds, Inc Box 722, Champaign, Ill. 61820
Keystone Seed Co P.O. Box 1438
Hollister, Calif. 95023
Niagara Chemical Division, FMC Corp P.O. Box 3091,
Modesto, Calif. 95353
Northrup, King & Co 1500 Jackson St., N.E.,
Minneapolis, Minn. 55440
Rogers Bros. Co P.O. Box 2188,
Idaho Falls, Idaho 83401
Sakata & Co., T Box Kanagawa No. 11, Yokohama, Japan
Stokely-Van Camp, Inc Spokane, Wash. 92216
Sweet Corn Genetic Service
Rt. 2, Ames, Iowa 50010
University of Hawaii AES, Bus. Ofc Honolulu, Hawaii 62822

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