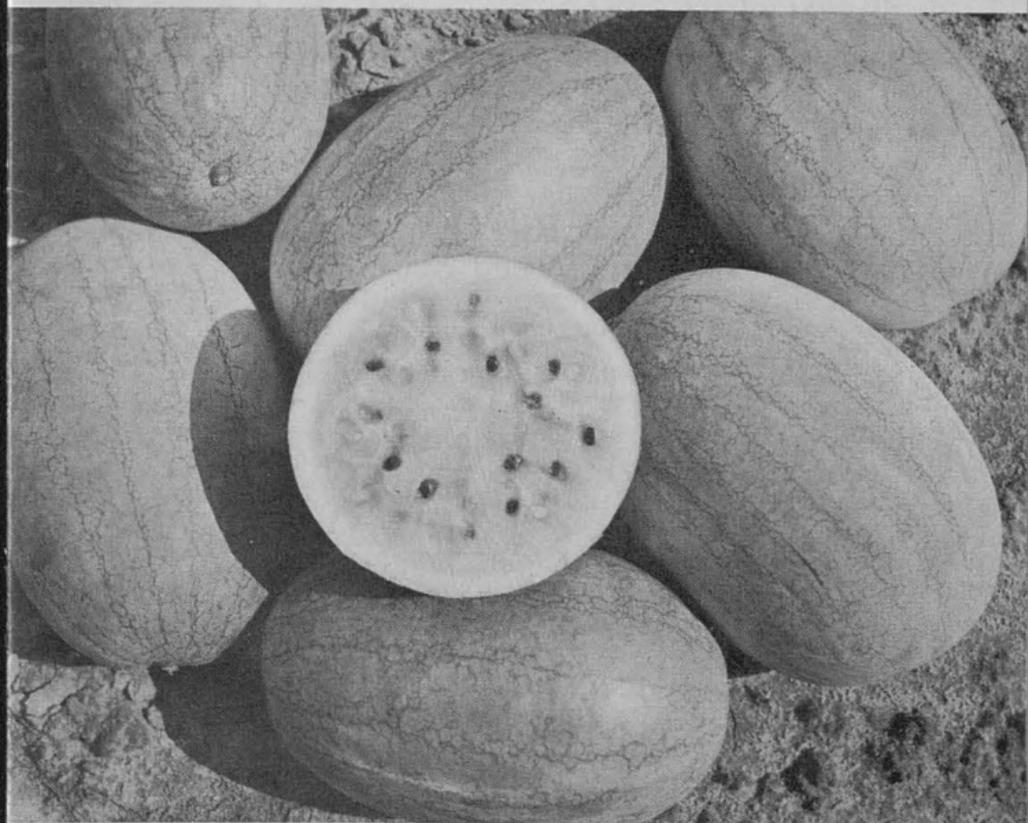


1964

Vegetable Varieties

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Hybrid 103

**AGRICULTURAL EXTENSION SERVICE
UNIVERSITY OF MINNESOTA
U. S. DEPARTMENT OF AGRICULTURE**

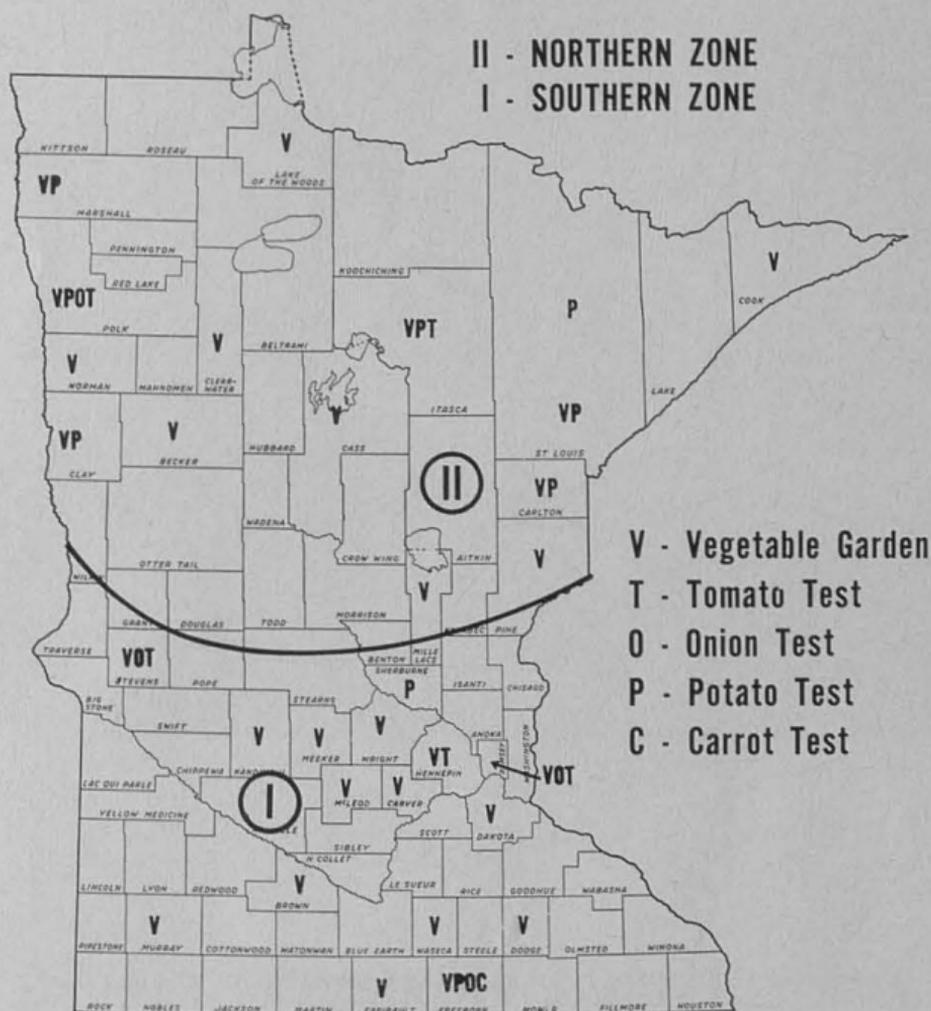
The selection of adapted varieties for Minnesota is a simple but important step to a successful garden. Not only are newer introductions better producers but many are disease resistant and of better quality.

In this folder we summarize information concerning vegetable varieties tested in Minnesota in 1963 (see map). These tests were conducted by the Agricultural Extension Service in cooperation with home and commercial gardeners.

There is also a suggested list of tested varieties that have been found suitable for Minnesota. Special emphasis is given to varieties good for freezing. Other varieties may be acceptable but have not yet been tested or are not generally available from seedsmen. Only after several years of testing can we judge a variety's dependability for an area. All varieties discussed are available from seedsmen, but no one seed company has all of them.

SNAP BEAN

Sprite—a new attractive green snap bean with compact mosaic-resistant plants. Plants produce heavily concentrated sets of pods. Pods are 5 to 5½ inches long, straight, and nearly round. They are slim, firm, and meaty. Seeds are pure white, small, and slow to develop. Most gardeners rated Sprite good in general performance.



Location of 1963 Test Plots

Executive—a new green-podded bean tested for the 2nd year in Minnesota trials. Pods are round in cross section and of good length. They are smooth, stringless, and slightly curved with rather long points. Seeds are a light tan gray.

Plants are resistant to mosaic and produce concentrated sets of pods that ripen at one time. Executive is suggested for several successive plantings for heavy yields of continuous harvest. Testers preferred Tendercrop but still rated Executive as favorable.

Harvester—another new attractive bean with tall upright disease-resistant plants. It produces good yields but slightly later than other varieties. Pods are round, straight, and slender. They are medium green and 5½ to 6 inches long. Seeds are white. Harvester was scored high by most cooperators.

Tendercrop—an excellent snap bean that rated highest in trials during the last 5 years. It combines the mosaic resistance and high yields of Topcrop with the dark pods and high quality of Tendergreen.

Dark-green stringless pods are 5 to 5½ inches long, round, and nearly straight. They hold their slim shape and high quality for a long period on the vine. Tendercrop is an excellent all-purpose bean for fresh use, canning, or freezing.

Royalty Purple—an unusual bush bean with round purple pods. These contrast with the green foliage for easy picking. When cooked in boiling water for 2 minutes, pods turn a deep green—a built-in blanching indicator for home freezing. Several cooperators liked the quality and productiveness again last year.

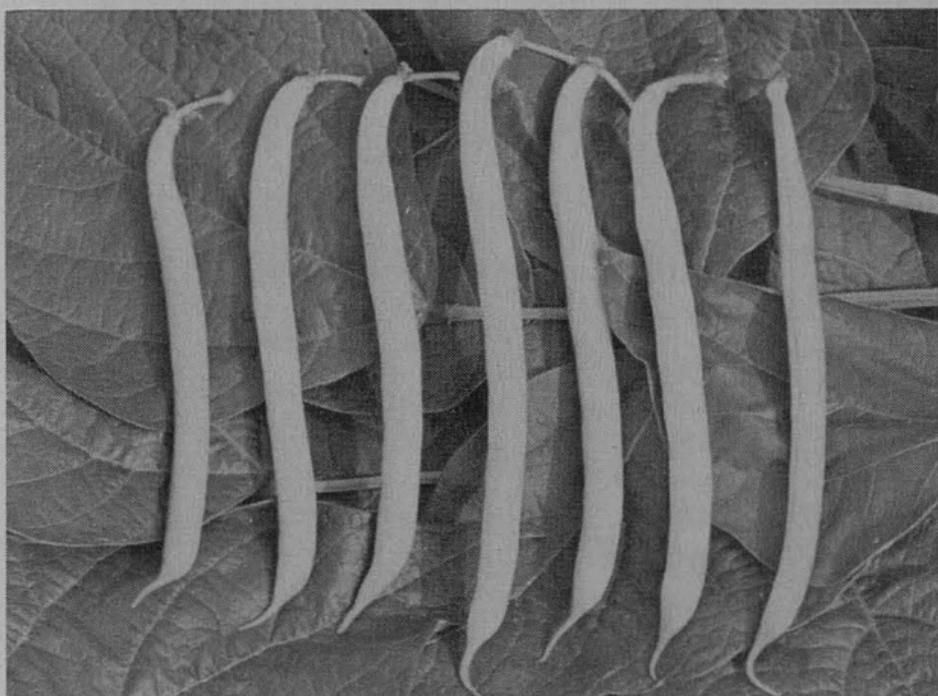
Resistant Cherokee Wax—a mosaic-resistant strain of the popular Cherokee variety. Pods are bright yellow, 5 to 6 inches long, fairly straight, and oval shaped. Excellent yield and quality were reported at most locations.

Kinghorn Wax—an excellent yellow-podded wax bean for home and market. Pods are slightly curved, smooth, round, and 5 to 6 inches long. Rich golden-yellow fiberless pods and pure white seeds add to its desirability as a wax bean for freezing or canning. Kinghorn Wax is becoming one of the most popular yellow varieties with Minnesota garden cooperators.

BEEF

Early Wonder Staysgreen—a new early bunching variety selected out of Early Wonder for better leaf color. Leaves stay green longer than other strains during cool weather. Roots are a smooth and flattened globular shape with a slight taper. The interior is dark purplish red with some lighter zones in hot weather. Reports indicated good performance at most 1963 locations.

Royal Red—an attractive new variety tested at only



Kinghorn Wax Snap Bean

a few locations last year. The interior color is a uniform dark blood red. Roots are globe shaped and flattened at the base. The crown is small where leaves are attached and the skin is very smooth.

Ruby Queen—an excellent table beet that has been consistently rated high in Minnesota trials. Roots are globe shaped with a smooth shoulder and crown. They reach usable size earlier than most varieties. The interior is a uniform bright red with fine texture.

BROCCOLI

Spartan Early—a new early variety improved from the popular Green Mountain. It is 10 to 14 days earlier. Plants are uniform in size and shape, short, and compact. The central head averages 6 to 8 inches in diameter. It is excellent for freezing. Gardeners liked its earliness and quality.

CABBAGE

Emerald Cross—a new F_1 hybrid that received an All-America award in 1963. It is as early as Golden Acre but matures more evenly. Plants are small and compact with short blue-green wrapper leaves. Heads are round, firm, and smooth. They hold their quality longer than most other early varieties. It is not resistant to yellows disease. Cooperators rated it high in yield and quality.

C-C Cross—a new F_1 hybrid with small compact plants and uniform small heads that are earlier than Golden Acre. It is not long standing so it should be harvested promptly. It is not resistant to yellows. Testers in 1963 scored it about equal to Emerald Cross.

TBR Globe—an improved strain of the old Globe variety selected for freedom from tipburn. Plants are yellows resistant. Heads are compact, globular, and 6 to 7 inches in diameter. It was tested only at a few locations where it was rated good.

CARROT

Imperator 408—a new improved strain of Imperator. Uniform roots are 9 to 10 inches long, $1\frac{1}{4}$ to $1\frac{1}{2}$ inches wide at the shoulder, and taper slightly to nearly a pointed tip. It is an excellent bunching carrot. Most testers rated it fair to good.

Danvers 126—a new strain of the popular Danvers variety selected for more uniform color and better quality. Roots are 6 to 7 inches long and 2 inches wide at the shoulder. They are inclined to be large, broad, and tapered in shape. The interior color is a uniform orange red. Danvers 126 produces heavily and is best suited for processing. Most gardeners liked it.

Royal Chantenay—an improved strain of the Red Cored Chantenay with longer and more cylindrical roots. It has a deep reddish-orange interior—right through to the center. It is especially suited to heavy shallow soils where longer varieties are more difficult to grow. Although it was developed for processors, several gardeners indicated good results with it during the past few years.

Scarlet Nantes—one of the most popular, sweetest, and dependable carrots for the home garden. It reaches usable size earlier than other varieties. Roots are long, cylindrical, and stump rooted. The interior color is a uniform reddish orange. It has consistently received the highest ratings in Minnesota garden trials.



Emerald Cross Cabbage

CAULIFLOWER

Snowball 16—an improved strain with dwarf compact plants and long upright leaves. Heads are 6½ inches in diameter, large, and smooth. They are pure white and free from leaflets. This variety is ready for harvest about 65 days after transplanting to the garden. It performed well at all locations where tested.

CUCUMBER

Spartan Dawn—a new F₁ hybrid, black spined pickling type, with “gynoecious” or all-female character. Vines usually produce no male blossoms but female flowers develop at almost every node. So the hybrid has the potential of heavy yields of pickles starting early in the season. To assure pollination, seedsmen supply about 10 percent of male parent seed blended with the hybrid.

Spartan Dawn has outstanding earliness with resistance to scab and mosaic. Fruits are a good uniform pickling type with some tendency to taper. Some testers reported fair results last year but generally it was rated good.

Triple Purpose—a new hybrid cucumber that produces pickles longer in shape than most standard kinds. Co-operators preferred the slimmer shape to some of the more blocky true pickling types. Vines are large and vigorous with resistance to scab and mosaic and tolerance to downy mildew. Fruits are uniform, well warted, light green, and black spined.

Saticoy Hybrid—a new F₁ hybrid slicing cucumber tested for the 3rd year with favorable results. It is resistant to mosaic and tolerant of downy mildew. Fruits are a solid dark green with a moderately warted surface. They are 7 to 8 inches long with a slight taper to the stem. They are slow to become overmature.

EGGPLANT

Black Magic Hybrid—a new F₁ hybrid eggplant that starts to ripen early and produces heavily all season. Fruits are dark glossy purple, smooth, oval shaped, and medium sized. Plants are tolerant of disease and drought and hold fruit well off the ground. Several cooperators indicated satisfactory results with this hybrid when plants were started early indoors.

LETTUCE

Buttercrunch—a new All-America winner in 1963 with excellent quality and dependability. It is an improvement of the old Bibb or Limestone lettuce. It withstands more heat and retains quality without bitterness over a longer period. Leaves are broad and dark green. The heart consists of loosely folded leaves with thick crisp midribs of high quality. Gardeners liked this lettuce.

Summer Bibb—another new butterhead type similar to Buttercrunch but with even more heat resistance. This loose-heading type can be grown all summer. It has the same appearance as the old variety Bibb. Most testers rated it high but preferred Buttercrunch.

Bibb—the old variety with small rounded leaves and thick succulent midribs. It is strictly an early season variety and goes to seed quickly when warm weather comes. Many cooperators reported good results with Bibb as an early lettuce variety with good quality.

MUSKMELON

Hybrid 16—a new early F₁ hybrid developed by the University of Minnesota. It is a week earlier than Farnorth with almost 30 percent more sugar content. Fruits are medium sized, oval, and tend to yellow as they approach maturity.

Hybrid 16 has good resistance to Fusarium wilt and continues to be vigorous and productive under unfavorable conditions. It was rated fair to good at most locations during the last 2 years.

Wheat City—a new extremely early melon with small vines. Fruits average 3 to 4 pounds and are heavily netted with shallow ribs. Cooperators reported this variety as the earliest in the trials but rated it lower in quality.

Gold Star—a new F₁ hybrid that matures a few days earlier than Iroquois. Fruits are medium sized, oval, and heavily netted. Flesh is deep orange and thick. It has resistance to Fusarium wilt. Most testers liked Gold Star.

PARSNIP

Harris Model—one of the smoothest and whitest of all parsnip varieties. Roots are of medium length, well shaped, and generally free from side branches. It has been one of the best test varieties in appearance, yield, and quality. It is good for home and market.

All-America—an old variety that reaches usable size about 2 weeks earlier than Harris Model. Roots are shorter with more abrupt taper and broader shoulders than Model. Most cooperators rated it fair.

Improved Hollow-Crown—an older variety, well known to most gardeners, with thick shoulders and fairly smooth roots. Roots are uniformly tapered to a 12-inch length. It was rated about equal to All-America in 1963.

PEA

Perfected Freezer—a new variety in the same maturity class as Wando. Plants are vigorous and disease resistant. Pods are straight, dark green, blunt ended, and 3 to 3½ inches long. This variety is excellent for fresh use and freezing. All cooperators rated it good.

Frosty—a new home garden pea that starts bearing just after Little Marvel. Pods are 3 to 3½ inches long, blunt ended, and dark green. They are borne in pairs near the top of compact vines where they are easy to pick. Peas are large and excellent for freezing. Frosty was scored high in earliness and quality.

Giant Stride—a large podded pea that is a few days later than Wando. Pods are 4½ to 5½ inches long containing 8 to 10 large dark-green peas. Testers rated it fair to good in 1963.



Frosty Pea

PEPPER

Staddon's Select—a new mosaic-resistant bell-shaped pepper that matures about the same time as Calwonder. Fruits are large but not as blocky and thick fleshed as others. Several cooperators liked it.

Delaware Belle—another new mosaic-resistant pepper that produces heavy sets of attractive fruits. Fruits are blocky, medium sized, smooth, and thick fleshed. It matures 2 or 3 days later than Staddon's Select. Most gardeners preferred Delaware Belle.

Pinocchio—a new variety with sweet fingerlike fruits that quickly turn brilliant red. Fruits are produced erect from the top of the plant. This dual-purpose vegetable adds ornamental value to the garden and still produces high quality fruits for food. It was rated high at all locations where tested.

PUMPKIN

Young's Beauty—a uniform round pumpkin of intermediate size. It has a hard rich-orange skin with moderate ribbing. Its medium size and ideal shape make it desirable for jack-o-lanterns. Gardeners liked this variety in 1963 trials.

RADISH

Stoplight—a new medium-top variety with bright-scarlet skin and globe-shaped roots. It is earlier and longer standing than some older varieties. Cooperators liked this variety but preferred Red Boy.

Red Boy—a short-top variety that matures quickly. It is especially suited to summer planting. Roots are round to slightly oval with bright scarlet-red skin. It continued to be rated the highest as a home garden variety.

SQUASH

Greyzini—a new F_1 hybrid summer squash of the Caserta type. Fruits are quite cylindrical and blunt ended. The skin is a glossy mottled light green splashed with broken stripes of dark green. Vines are compact and bush type. Greyzini is very productive but requires frequent picking to obtain heaviest yields. Some gardeners scored it low in quality but most liked it.

Sweet Nut—a novelty type with edible seeds claimed to be nutritionally equal to peanuts. Plants have a compact bush-type habit of growth. Fruits resemble Table Queen but are more round with less distinct ribbing. It was rated fair to good last year.

Eat All—another edible-seeded squash similar to the Delicata or Sweet Potato squash. Hulless seeds are tasty and high in nutritional value; they give a delightful flavor to the meat of the squash when it is baked. Fruits are green and white striped and elongated with blunt ends. Cooperators preferred Sweet Nut to this variety.

Bush Table Queen—a strain of the familiar Table Queen or Acorn variety with bush-type plants. Most co-operators scored this variety the best in 1963 trials.

Golden Delicious—a large winter squash with reddish-orange fruits that are pointed and top shaped. The orange flesh is thick, dry, fine grained, and of good quality. This variety is excellent for canning and freezing. It was rated high in limited trials last season.

Hercules—a new strain of the familiar Butternut winter squash. Vines are vigorous but maturity is later. Fruits are inclined to be more dumbbell shaped and have a smaller seed cavity. Texture and quality are similar to Butternut. This variety performed well at most locations.



Hercules Winter Squash



Spring Gold Sweet Corn

SWEET CORN

Butter and Sugar—a hybrid that matures in about 82 days. Ears are 8 inches long with 12 to 14 rows of mixed yellow and white kernels. Quality and yield were rated good last year.

Barbecue—a 75-day hybrid with attractive slender ears filled with 12 rows of wide golden kernels. Most growers rated it fair to good.

Spring Gold—a new early hybrid that matures in 67 days. Ears are about 7 inches long and filled with 12 to 16 rows of small golden kernels. Husks are dark green, smooth, and tight. Cooperators scored this hybrid as one of the best in 1963 trials.

Earliking—another extra early hybrid that matures in 66 days. Plants are short and stocky but they produce large ears 7 to 8 inches long and $1\frac{1}{4}$ inches in diameter with 12 rows of golden kernels. The husk cover is tight and dark green. Earliking continued to be the earliest in trials and gardeners rated it high.

Morning Sun—an attractive early sweet corn for home and market that matures in 72 days. Plants are 5 to 6 feet tall with few suckers. Ears are 7 inches long with 14 rows of medium wide yellow kernels. Ears are high and stand out well from the stalk for easy snapping. It was rated good again by most testers last year.

Sugar King—a 78-day hybrid corn with excellent quality. Plants are 6 to 7 feet tall with cylindrical ears with little taper. Ears are 7 to 8 inches long and filled

with 14 to 16 rows of golden kernels. Husks are dark green and cover tips of ears. Sugar King continued to be rated the highest in quality after several years of testing.

Code 199—an 84-day hybrid developed for processors but liked by home and market gardeners. Plants are 7½ to 8 feet tall with few tillers. Ears are 7½ to 8 inches long with 18 to 20 rows of narrow deep kernels that can be easily cut for canning or freezing. Although Code 199 is late to mature, most cooperators liked it for quality and yield.

Queen Anne—a new hybrid that matures in 75 days. White silks on the ears are a desirable feature to processors. Ears are 7½ inches long with 14 rows of golden kernels. It was rated fair to good at the few test locations.

Golden Beauty—another early hybrid that matures in 70 days. It has been rated high in trials during the past few years and is well adapted to Minnesota gardens. Ears are 8 to 9 inches long and have 8 to 10 straight rows of golden kernels. Husks are dark green and tight.

Buttertender—a new hybrid in the 81-day maturity class. It was developed primarily for the processing trade. Ears are 8 inches long and 2¼ inches in diameter with 16 to 20 rows of medium deep, narrow kernels. At the few test locations it was rated high in yield and quality.

TOMATO

Rockingham—a new variety that shows resistance to late blight. Leaves are more similar to potato than tomato. Fruits are almost round, free from cracking, medium sized, and a rich-red color throughout. Although the latest of the three strains tested, Rockingham was rated high by most growers.

Wonderboy—a large fruited hybrid with midseason maturity. Fruits are a flattened globe shape with a rich-red color throughout. Vines are vigorous and produce heavy crops of fruit, many of which weigh over a pound. It was well liked by cooperators.

Gardener—a new early tomato in the same maturity group as Fireball with larger plants and medium size fruits. Plants are adapted to staking. Most testers reported good results with this tomato. It is suitable for direct seeding in the garden in May.

WATERMELON

Hybrid 103—a new hybrid melon that ripens a few days later than most midget types. It produces heavy crops of fruits. Fruits average 12 to 15 pounds and are a long oval shape. They have light-green skin marbled with veins of darker green. Flesh is pink red and of good quality. Seeds are small and black. Hybrid 103 performed well at most locations last year. (See cover picture.)



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DEPENDABLE VARIETIES SUGGESTED FOR MINNESOTA GARDENS

- ASPARAGUS—Washington,° F₁ Hybrid°
 BEANS, GREEN BUSH—Tendergreen,° Topcrop,° Tendercrop°
 BEANS, YELLOW BUSH—Cherokee,° Pencil Pod Black Wax,° Kinghorn
 Wax°
 BEANS, LIMA—Triumph,°† Fordhook 242°†
 BEANS, POLE—Kentucky Wonder,° Blue Lake°
 BEANS, DRY—Great Northern, Michilite
 BEETS—Ruby Queen,° King Red°
 BROCCOLI—Green Mountain,° Waltham 29°
 BRUSSELS SPROUTS—Catskill,° Jade Cross°
 CABBAGE, EARLY—Golden Acre Yellows Resistant, Badger Market
 CABBAGE, MIDSEASON—Greenback, Marion Market
 CABBAGE, LATE—Hollander Short Stem, Wisconsin Hollander, Danish
 Ballhead, Penn State Ballhead
 CABBAGE, RED—Red Acre, Red Danish
 CABBAGE, CHINESE—Michihili
 CARROTS—Nantes,° Royal Chantenay,° Imperator°
 CAULIFLOWER—Snowball,° Super Snowball°
 CELERY—Summer Pascal, Utah 52-70
 CORN, SWEET, EARLY—Sugar and Gold,° Earliking
 CORN, SWEET, MIDSEASON—Golden Beauty,°† Golden Cross Ban-
 tam,°† Sugar King°†
 CORN, POP—Minhybrid 250†
 CUCUMBERS, PICKLING—Chicago Pickling, Mincu, Wisconsin SMR 15
 CUCUMBER, SLICING—Burpee Hybrid, Hybrid C, Marketer
 EGGPLANT—Black Beauty°†
 ENDIVE—Green Curled, Full Heart Batavian
 KALE—Dwarf Blue Curled°
 KOHLRABI—Early White Vienna°
 LETTUCE, HEAD—Great Lakes, Pennlake, Bibb
 LETTUCE, LEAF—Grand Rapids, Black Seeded Simpson, Slobolt
 MUSKMELON, EARLY—Minnesota Midget,† Farnorth
 MUSKMELON, MIDSEASON—Iroquois,°† Delicious 51, Burpee Hybrid
 ONION—Early Yellow Globe, Brigham Yellow Globe, Trapp's Downing
 Yellow Globe, Elite, Utah Sweet Spanish, Los Animas Sweet Spanish
 PARSLEY—Dark Moss Curled, Paramount, Minncurl
 PARSNIPS—All-American,° Harris Model
 PEAS—Little Marvel,° Laxtons Progress,° Wando, Lincoln, Dark Seeded
 Perfection°
 PEPPERS—Wisconsin Lakes, Calwonder,† Yolo Wonder†
 POTATOES—Waseca, Norland, Irish Cobbler, Cherokee, Kennebec, Red
 Pontiac
 PUMPKINS—Sugar Pie, Jack-o-Lantern
 RADISH—Cherry Belle, Cavalier, Early Scarlet Globe, White Icicle
 RHUBARB—Valentine,° MacDonald Crimson,° Chipman's Canada Red°
 RUTABAGA—Laurentian
 SPINACH—America,° Bloomsdale Long Standing,° New Zealand°
 SQUASH, SUMMER—Black Zucchini,° Early Prolific Straightneck°
 SQUASH, WINTER—Buttercup,° Hybrid R,° Butternut°
 SWISS CHARD—Lucullus, Rhubarb
 TOMATO, EARLY—Fireball,† Hybrid EE,† Firesteel, Moreton Hybrid
 TOMATO, MIDSEASON—Stokesdale, Hybrid M,† Big Boy†
 TOMATO, LATE—Rutgers†
 TURNIP—Purple Top White Globe
 WATERMELON—New Hampshire Midget, Sugar Baby, Northern Sweet,
 Early Kansas,† Rhode Island Red

° Suitable for freezing. † For region I only. ‡ For region II only. See the map in the folder for the 1963 test plot locations.