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1942

A

DESCRIPTIVE CATALOGUE

OF

VEGETABLES

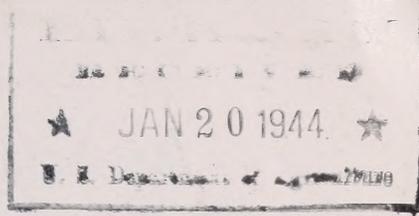
(No. 10)



Associated Seed Growers, Inc.

New Haven, Connecticut





## Foreword

**E**ACH succeeding edition of the *Descriptive Catalogue* reflects, through the additions and deletions in its listings, the changes in demand for different varieties by commercial and private gardeners. Older types gradually become superseded in favor of those improved in quality or vigor, and in some cases fashions change, as exemplified by the present tendency toward darker green in leaf vegetables.

While it is gratifying to be able to record increasing appreciation of the results of modern plant breeding methods, and to present new varieties made possible by such encouragement, it is still evident that conservatism is a strongly marked trait of many growers. Although in each edition of the *Descriptive Catalogue* we expunge a number of out-moded varieties, we still find it necessary to grow and to list, in accord with the preferences of our customers, a considerable number not of the highest quality. Among our 53 varieties of peas, 41 of bush beans and 51 of tomatoes, for example, at least one-third might be omitted and still leave ample varietal adaptation with considerable enhancement of satisfaction to growers.

As a guide and recommendation to the more desirable varieties we have listed the names of these in capitals, and where a variety is particularly adapted to a limited area we have mentioned that fact. The number of days allotted to each variety, it should be emphasized, is relative and intended primarily to afford a basis of comparison rather than to state a rigid interval between planting and harvest, which is obviously conditioned by many variable factors. Similarly the measurements of size and weight are not absolute; they are, however, compiled from many observations through many years.

Thanks are due to correspondents who have expressed appreciation of the previous edition and helped the preparation of the present one by useful criticism and suggestions.

# Associated Seed Growers, Inc.

Main Office: New Haven, Connecticut

New Haven, Conn.

May 1st, 1942

# Associated Seed Growers, Inc.

Main Office: New Haven, Connecticut  
Breeder and Growers

Consolidating

THE EVERETT B. CLARK SEED CO., Est. 1857  
N. B. KEENEY & SON, INC., 1860  
JOHN H. ALLAN SEED CO., 1856  
JEROME B. RICE SEED CO., 1832

Cable Address: Asgrow

## Growing Stations and Principal Warehouses at

Milford, Connecticut	Hamilton, Montana
LeRoy, New York	Ronan, Montana
Sheboygan, Wisconsin	St. Anthony, Idaho
St. Paul, Minnesota	Filer, Idaho
Greeley, Colorado	Fairfield, Washington
Powell, Wyoming	Mt. Vernon, Washington
Bozeman, Montana	Salinas, California
	Brooks, Alberta, Canada

Various sub-stations at other advantageous points

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## Breeding Stations at

Hamilton, Montana	Palmetto, Florida
Milford, Connecticut	Franklin, Indiana
Milpitas, California	Filer, Idaho
Greeley, Colorado	Robstown, Texas

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## Sales Branches and Distributing Warehouses at

Atlanta, Georgia	Indianapolis, Indiana
Salinas, California	Los Angeles, California
Memphis, Tennessee	Cambridge, New York
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Distributors for Texas

ASSOCIATED SEEDS, INC.

San Antonio      Robstown

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European Representative: J. J. Lion, Salisbury House, London

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## ALL-AMERICA SELECTIONS

The All-America Selections Council, sponsored by the American Seed Trade Association and affiliated bodies, has in each of the past ten years made awards to distinctively new varieties. These coveted awards are made on the results of trials conducted in twelve different sections of the country by impartial judges, to whom the entries are known only by numbers, and who allot marks for Distinctiveness, General Usefulness, Adaptability, and Uniformity.

The Asgrow record in these trials is as follows:

### GOLD MEDAL

Asgrow Stringless Green Pod Bean .....	1933
Asgrow Wonder Beet .....	1934
Scarlet Dawn Tomato .....	1935

### SILVER MEDAL

Asgrow Black Valentine Bean .....	1933
Clark's Special Cucumber .....	1933
Imperator Carrot .....	1933
Asgrow Canner Beet .....	1936
Golden Colonel Corn .....	1936
Teton Pea .....	1937
Baby Potato Lima Bean <sup>1</sup> .....	1940
Decatur Pole Bean .....	1942

### BRONZE MEDAL

Stowell's Evergreen Hybrid Sweet Corn .....	1934
Ruby King Pepper, Asgrow Strain .....	1935
Ioana Hybrid Sweet Corn <sup>2</sup> .....	1940
Allegheny Hybrid Sweet Corn .....	1941
Medal Refugee Bean .....	1942

### HONORABLE MENTION

Cardinal Tomato .....	1938
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<sup>1</sup>Cooperatively, see page 15.

<sup>2</sup>Cooperatively, see page 39.

## ARTICHOKE

*Cynara scolymus*

### Large Green Globe

Plants thistle-like, 3-5 ft. tall. Heads large, round but slightly elongated, deep green; edible base of scales thick and of delicate flavor.

## ASPARAGUS

*Asparagus officinalis*

### MARY WASHINGTON

Developed by the late Dr. J. B. Norton, U. S. Dept. of Agriculture, for resistance to asparagus rust; and now by far the most extensively grown variety. Large green spears with tight, purple-tinted tips, of fine quality. Heavily productive and very uniform.

### Martha Washington

Closely related to Mary Washington; a little earlier and perhaps slightly more resistant to rust but not so large or of such excellent quality and uniformity.



*Asgrow Stringless Green Pod: All-America Gold Medal, 1933*

## BEANS

### *Phaseolus vulgaris*

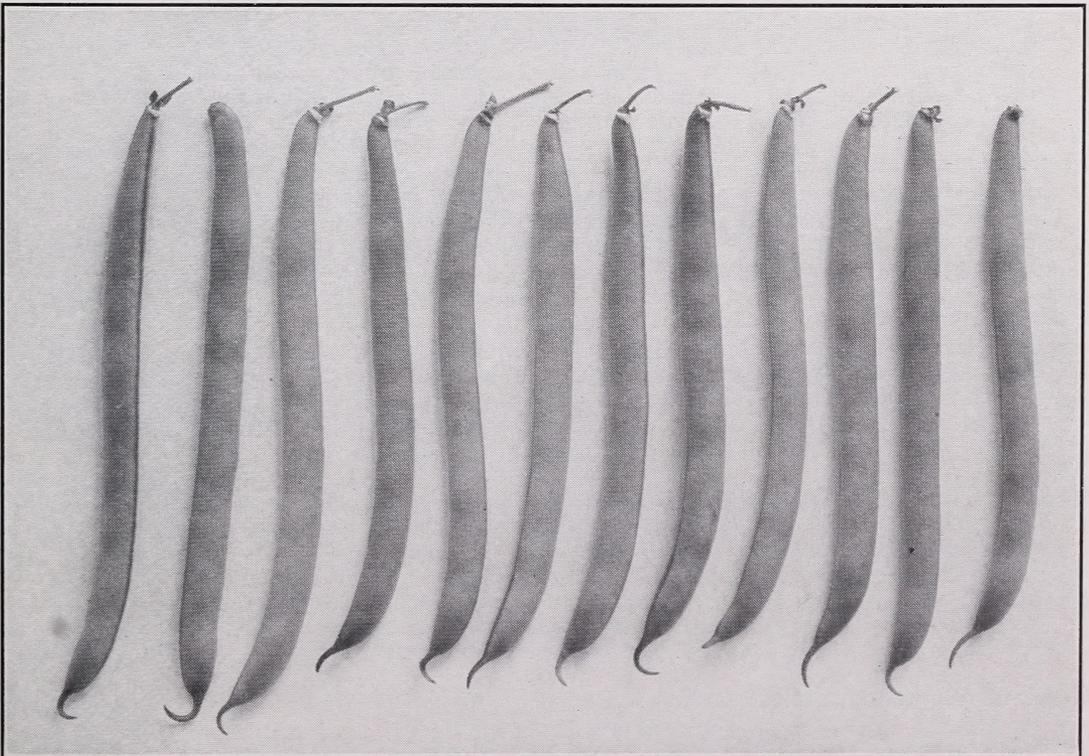
Through hybridization and intensive selection we have developed many of the leading varieties of stringless beans. In addition to creating new and better types at our breeding stations, a continuous program of pure-line breeding is carried on, so that Asgrow stocks of standard varieties may be maintained at their best.

In listing the number of days from planting to marketable condition, we have used the average results secured over a period of years. These figures apply to plantings under normal conditions, and will vary somewhat in different sections of the country. However, the number of days indicated will serve to show the relative maturity of the different varieties.

### Dwarf or Bush

	Length of pod inches	Width of pod inches	Days
<b>ASGROW STRINGLESS GREEN POD</b> .....	6 $\frac{1}{4}$	$\frac{3}{8}$	52
All-America Gold Medal for 1933; now one of the most popular varieties for truckers, canners and home gardens. Hardy, widely adapted and a very dependable cropper. Plant medium large, erect, somewhat thick stemmed, heavily productive. Pods nearly straight, dark green, round, meaty, succulent; entirely stringless, totally without fiber, of outstanding quality. Seed oblong, purple mottling on buff with brownish cast: 65 per oz.			
<b>ASGROW BLACK VALENTINE</b> .....	6 $\frac{3}{4}$	$\frac{3}{8}$	49
All-America Silver Medal for 1933. Highly popular with quality shippers and market gardeners. Similar to the old Black Valentine except that it is free from strings. Plant large, erect, prolific. Very attractive oval pods, nearly straight, dark green, strictly stringless, and of fine quality and delicate flavor; retain color and texture in shipping long distances: seed oval, solid black: 90 per oz.			

	Length of pod inches	Width of pod inches	Days
<b>Black Valentine</b> .....	6	$\frac{3}{8}$	49
Long a shipping variety, which holds its firmness and color well after picking. Pods oval, dark green, but stringy.			
<b>BOUNTIFUL</b> .....	6 $\frac{1}{2}$	$\frac{1}{2}$	47
An important early variety on northern and eastern markets and in home gardens. Plant medium large, prolific, thrifty. Pods flat, light green, stringless, slightly fibrous and of good quality. Seed straw colored: 65 per oz.			
<b>BRITTLE WAX.</b> Same as Round Pod Kidney Wax, see page 9.			
<b>BURPEE'S STRINGLESS GREEN POD, IMPROVED</b> .....	5 $\frac{1}{2}$	$\frac{7}{16}$	50
Since its origination in 1894 by Calvin N. Keeney we have markedly improved this sturdy variety. Plant bushy and productive. Pods nearly round, slightly curved, stringless and fiberless. Seed coffee-brown: 75 per oz.			
<b>Canadian Wonder</b> .....	7	$\frac{1}{2}$	68
Plant large and erect. Pods light green, thick-flat, straight, fibrous and stringy. Seed large, maroon color: 50 per oz.			
<b>Davis Stringless Wax</b> .....	6	$\frac{1}{2}$	52
Plant medium large. Pods thick-flat, light yellow, straight; stringless but fibrous. Seed white, kidney shaped: 70 per oz.			
<b>Dixie White</b> .....	5	$\frac{3}{8}$	52
Used in the South. Very similar to Burpee's Stringless Green Pod but with somewhat smaller pods and white seeds.			



*Asgrow Black Valentine; All-America Silver Medal, 1933*



*Giant Stringless Green Pod: A favorite Asgrow variety*

## BEANS—Continued

	Length of pod inches	Width of pod inches	Days
Dwarf Horticultural (Speckled Cranberry: Dwarf Cherry) .....	5	$\frac{5}{8}$	54
Used for snap beans; also for green shelled beans, which are edible in about 62 days. Plant medium in height and prolific. Pods green at early stage, splashed with carmine at maturity; thick-flat, stringless, somewhat fibrous. Seed oval, pinkish buff, spotted and streaked with maroon: 60 per oz.			
French's Horticultural .....	7	$\frac{5}{8}$	68
A New England green shelled variety. Plant compact, with short runners. Pods attractive in appearance but stringy with heavy splashing of deep carmine. Seed pinkish buff, mottled and streaked with ox-blood red: 60 per oz.			
Full Measure .....	6	$\frac{3}{8}$	53
For market garden and canning. An excellent variety under favorable conditions but less hardy and more susceptible to disease than others. Plant upright and prolific. Pods round, nearly straight, very fleshy, stringless and tender; medium green. Seed reddish brown mottled with buff: 65 per oz.			
GIANT STRINGLESS GREEN POD .....	$6\frac{1}{2}$	$\frac{1}{2}$	53
Originated by Calvin N. Keeney; introduced in 1898. An excellent variety for market garden and shipping; also extensively used for canning. Plant large, sturdy, prolific. Pods almost round, meaty, strictly stringless and brittle; without fiber or parchment, with marked indentations between the beans; color medium green. Seed oval, solid yellowish brown: 70 per oz.			
Goddard (Boston Favorite) .....	$6\frac{1}{2}$	$\frac{1}{2}$	62
A New England green shelled sort. Plant large, spreading, with moderate runners. Pods flat, splashed red, depressed between seeds. Seed long, oval, pale buff splashed purplish red: 60 per oz.			

	Length of pod inches	Width of pod inches	Days
Golden Wax, Improved .....	4½	½	51
For home gardens. Plant small but vigorous. Pods straight, thick-flat, creamy yellow in color; stringless but fibrous, of fine flavor. Seed short-oval, white, with mottling of violet and light yellow around eye and ends: 65 per oz.			
Granda (Streamliner) .....	8	¾	50
A European introduction which received All-America Silver Medal for 1938. Bush of medium size and prolific; pods long, straight, oval, medium green, and of good quality. Seed white, small: 90 per oz.			
Hodson Wax .....	6	½	66
For late shipping. Plant sprawling and productive. Pods flat, light waxy yellow, tender when young, but stringy later. Seed reddish purple, splashed with pale buff: 70 per oz.			
Idaho Refugee .....	5	¾	64
Plant of true Refugee type, strongly prolific and resistant to common bean mosaic. Pods straight, round, silver-green, stringless, without fiber; seed purple-blue splashed with buff: 100 per oz.			
Keeney's Improved Stringless Kidney Wax .....	5½	⅝	58
Originated by Calvin N. Keeney; introduced in 1906. Excellent for canning and for home and market-garden use. Plant large and erect. Pods oval, light yellow in color, brittle, stringless, fleshy, and of fine flavor. Seed white, kidney shaped with black eye: 75 per oz.			
Keeney's Rustless Golden Wax .....	5	½	52
Plant strongly productive. Pods thick-flat, golden yellow, stringless, and nearly fiberless. Seed short-oval, white, splashed with purplish maroon and buff: 60 per oz.			
Keeney's Stringless Green Refugee .....	5¼	¾	70
Originated by Calvin N. Keeney and introduced in 1908. An outstanding late variety for home and market gardens; very popular with canners. Plant large, very spreading, with many tendrils and drooping branches; heavily productive. Pods silvery green, round, stringless, brittle, without fiber. Seed violet-purple, splashed with pale buff: 95 per oz.			
Longfellow .....	6¼	½	54
Plant medium large, moderately productive; susceptible to disease. Pods round, straight, slender; strong string. Seed mottled pale ochre-red: 80 per oz.			
Long Pod Windsor <i>Vicia faba</i> .....	5	⅞	75
Plant similar to Broad Windsor but pods are longer and narrower, containing 5-6 seeds which are oblong rather than round.			
Low's Champion (Red Cranberry: Maine Cranberry) .....	5	⅝	55
Used in the Eastern States. Plant medium, erect, moderately productive. Pods light green, straight, flat, stringless, and of good quality. Seed ox-blood red with white eye: 50 per oz.			
Masterpiece .....	6½	⅞	53
For greenhouse forcing. Plant similar to Bountiful. Pods straight, flat, silvery green, stringless when young, but strong string later. Seed dark tawny yellow with broad eye-ring: 60 per oz.			

## BEANS—Continued

	Length of pod inches	Width of pod inches	Days
Medal Refugee .....	5	$\frac{3}{8}$	65
All-America Bronze Medal for 1942. Plant compact, erect, free from spreading tendrils, and resistant to common bean mosaic. Pods green, round, stringless and fiberless; devoid of purple splashing. Seeds distinctively different from regular Refugee types, being white with brown eye: 95 per oz.			
PENCIL POD BLACK WAX .....	6	$\frac{7}{16}$	55
Originated by Calvin N. Keeney. The leading wax variety for home and market gardens. Plant large, stocky, vigorous, and strongly productive. Pods round, slightly curved, fleshy, golden yellow, tender, entirely stringless, without fiber, brittle and of finest quality. Seed oblong, slightly flattened, solid black: 90 per oz.			
Plentiful .....	$7\frac{1}{2}$	$\frac{7}{16}$	50
Introduced by Ferry-Morse Seed Co. and awarded All-America Bronze Medal for 1939. Primarily a black-seeded Bountiful, obtained by crossing that variety with Sure Crop Wax. Plants strong and productive, pods flat, light green, fairly straight, stringless and of good quality. Not related to the older variety of same name.			
Red Kidney .....	$5\frac{1}{2}$	$\frac{1}{2}$	95
A commercial variety of fine quality for dry use. Plant large, vigorous, productive. Pods waxy green color, oval-flat, stringy, tough and fibrous. Seed reddish brown: 50 per oz.			
Red Valentine .....	$4\frac{3}{4}$	$\frac{3}{8}$	52
An old variety for home gardens, still used in the South. Plant medium, hardy, erect, heavily productive. Pods not quite so dark as Black Valentine, round, creasebacked, brittle, curved, stringy, of fair quality. Seed purplish red splashed with pale buff: 80 per oz.			
Red Valentine, Stringless .....	$4\frac{1}{2}$	$\frac{3}{8}$	54
Introduced by D. Landreth Seed Co. A stringless strain of Red Valentine similar in other respects to the regular stocks of this well-known variety except that pods are slightly shorter and more curved.			
Refugee (1000 to 1) .....	5	$\frac{3}{8}$	70
Plant large, spreading, hardy, heavily productive. Pods round, fleshy, stringy later, without fiber. Seed cylindrical, violet-purple splashed with buff: 95 per oz.			
Refugee Wax .....	$4\frac{3}{4}$	$\frac{3}{8}$	54
Originated by Calvin N. Keeney. An older canning variety. Plant sprawling and productive. Pods round, curved, light yellow faintly splashed with purple; brittle, stringless and of excellent quality. Seed cylindrical, bluish black splashed with pale buff: 100 per oz.			

	Length of pod inches	Width of pod inches	Days
<b>ROUND POD KIDNEY WAX (Brittle Wax)</b> .....	5¾	¾	58
<p>Originated by Calvin N. Keeney and introduced in 1900. An outstanding sort for the canning trade and the home garden. Plant large, erect, medium green, vigorous and productive. Pods handsome in appearance, medium yellow, round, slightly curved, deeply creasebacked, extremely brittle, fleshy, succulent, entirely stringless and fiberless; the standard of highest quality. Seed white, kidney shaped, with black eye: 80 per oz.</p>			
<b>SURE CROP WAX</b> .....	5½	½	53
<p>Sometimes called Bountiful Wax. Originated by Calvin N. Keeney. Introduced in 1911. Particularly desirable for truckers and shippers. Plant large, sturdy, very productive. Pods thick-flat, golden yellow, brittle, strictly stringless; very little fiber, fine texture and quality. Seed oval, jet black: 65 per oz.</p>			
<b>Tendergreen</b> .....	6	¾	51
<p>Similar to Asgrow Stringless Green Pod, but not so uniform and concentrated in season. Plant large and productive. Pods round, fleshy, dark green, stringless and of fine quality. Seed mottled buff and purple: 65 per oz.</p>			
<b>Tennessee Green Pod (Brown Bunch)</b> .....	6¼	⅝	50
<p>Plant medium large, dark green, spreading, hardy, productive. Pods flat, broad, curved, medium green, depressed between seeds, stringy, somewhat tough but of particularly good flavor. Seed broad, flat, solid dark hazel: 70 per oz.</p>			



*Medal Refugee: All-America Bronze Medal, 1942*

## BEANS—Continued

	Length of pod inches	Width of pod inches	Days
Top Notch Wax .....	5 $\frac{1}{4}$	$\frac{1}{2}$	51
An attractive type of Golden Wax developed by D. Landreth Seed Co. Plant medium small, compact, with ample foliage; pods creamy yellow, straight, flat-oval, stringless and brittle. Seed oval, solid white with brown eye: 70 per oz.			
Unrivalled Wax .....	4 $\frac{1}{2}$	$\frac{3}{8}$	52
Plant dwarf, erect, stocky and productive. Pods attractive, light yellow, narrow, thick-flat, brittle, stringless when young, somewhat coarse in texture. Seed small, long-oval, glossy golden brown: 145 per oz.			
U. S. No. 5 Refugee.....	5 $\frac{1}{2}$	$\frac{3}{8}$	63
Developed and introduced in 1935 by the U. S. Dept. of Agriculture. Highly resistant to common bean mosaic. Plant similar to Keeney's Stringless Green Refugee, pods slightly smaller in diameter and longer; light silver-green and devoid of purple splashing, round, straight, stringless and fiberless. Seed of Refugee type but mottled brown: 105 per oz.			
Webber Wax (Cracker Jack) .....	5 $\frac{1}{2}$	$\frac{1}{2}$	49
Pods medium broad, thick-flat, curved, bright yellow, brittle, stringless when young. Seed yellowish brown, long-oval: 75 per oz.			
White Kidney .....	5 $\frac{3}{4}$	$\frac{1}{2}$	100
A commercial variety of excellent quality for dry shelled use. Plant large, erect, bushy, compact, vigorous and productive. Seed long, white, kidney shaped: 50 per oz.			



*Blue Lake Stringless: A new Asgrow pole bean*

## Pole Varieties

	Length of pod inches	Width of pod inches	Days
Alabama No. 1 .....	7	$\frac{3}{8}$	67
Developed for Southern growers by the Alabama Experiment Station. Resembles Ideal Market but is very resistant to root knot nematodes and possibly also to some forms of rust. Pods nearly round, almost straight. Develops purple pigmentation in stem and pods.			
Blue Lake .....	6	$\frac{3}{8}$	64
Developed from a selection of White Creaseback. Widely used in the West for processing. Pods round, medium green, stringless when young, and of very good canning quality. Seed small, oval, ivory white: 110 per oz.			
Blue Lake Stringless .....	$6\frac{1}{4}$	$\frac{3}{8}$	59
A new and valuable variety of this increasingly popular canning and freezing type, developed at our Pacific Coast breeding station. The pods differ from those of regular Blue Lake in being stringless at all stages, fully round, somewhat longer and darker in color. Plant vigorous and productive; resistant to common bean mosaic and certain strains of rust. Pods round, dark green, fleshy, stringless at all stages, tender and of fine quality. Seed small, oval, white: 100 per oz.			
Caseknife, Dutch .....	8	$\frac{3}{4}$	65
For green shelled beans. Plant medium, 4-5 ft. high, good climber. Moderately productive, with short bearing period. Pods exceptionally flat, silvery green in color, tough, stringy. Seed large, oblong, ivory white: 75 per oz.			
Cutshort Red Speckled (Corn Hill: Cornfield Pole) .....	$3\frac{1}{2}$	$\frac{3}{8}$	72
Used in Southern home gardens and often grown in corn. Plant 5 ft. tall; good climber, bears over long season. Pods for snap beans; small, dark green, straight and round. Seed small, light fawn splashed with purplish crimson: 105 per oz.			
DECATUR .....	$6\frac{1}{2}$	$\frac{3}{8}$	60
All-America Silver Medal for 1942. Plant early, hardy and vigorous, a good climber and with considerable resistance to disease, particularly common bean mosaic and certain forms of rust. Pods nearly round and straight, a lively dark green color, meaty, stringless and of fine quality. Seeds small and ivory white: 100 per oz.			
GENUINE CORNFIELD .....	$6\frac{1}{2}$	$\frac{7}{8}$	71
Vigorous and prolific cornfield type; planted in the cornfield at second cultivation or by itself. Plants strong and prolific. Pods nearly round, straight, medium green at the picking stage, becoming purple mottled later, fleshy, tender and of good quality, somewhat stringy. Seed oval, tan with irregular brown mottling and stripes: 120 per oz.			
Golden Cluster Wax .....	$6\frac{1}{2}$	$\frac{11}{8}$	74
Used for snap, green shelled or dry beans. Plant large, vigorous, very productive. Pods nearly straight, flat, smooth, waxy yellow, fleshy, tender, stringless, fiberless, of good texture. Seed oval-flat, white: 70 per oz.			

**BEANS—Continued**

	Length of pod inches	Width of pod inches	Days
<b>IDEAL MARKET STRINGLESS</b> .....	6½	¾	66
<p>Specially bred at our Pacific Coast station to meet the demand of Southern growers for an improved type of Ideal Market Pole. This entirely new and distinctive variety is more vigorous and a better climber than the old variety, very prolific, with pods stringless at all stages, straight, round or nearly so, dark green, tender and of superior table quality. Seed black: 120 per oz.</p>			
<b>KENTUCKY WONDER (Old Homestead: Texas Prolific)</b> .....	9	½	65
<p>The most widely used pole bean, introduced by J. M. Thorburn &amp; Co. in 1877 from the South where it had long been grown. Accordingly there are quite a number of different strains. Through careful breeding the Asgrow strain is distinguished by productivity, earliness and freedom from flat pods. A strong climber, hardy, and prolific over a long season. Long pods in clusters, curved and indented; plump and almost round, meaty, brittle, fiberless with a distinctive and pleasing flavor. Seed buff brown: 80 per oz.</p>			
<b>Kentucky Wonder, Rust Resistant</b> .....	6½	½	65
<p>Quite similar to regular Kentucky Wonder, but resistant to three forms of rust; pods somewhat shorter, and more fully round.</p>			
<b>KENTUCKY WONDER WAX</b> .....	7	½	68
<p>A popular variety. Plant vigorous, good climber, productive. Pods waxy yellow, flat, nearly stringless, somewhat fibrous, meaty. Seed flattish oval, chocolate-brown: 80 per oz.</p>			
<b>Kentucky Wonder White (Burger's Stringless) Improved</b> .....	6	½	64
<p>For home gardens and truckers. Plant medium, 4-5 ft. tall, not a good climber. Pods nearly round, silvery green, tender, fleshy, stringless, fiberless. Good for dry shelled as well as snap beans. Seed oval-flat, white: 90 per oz.</p>			
<b>Kentucky Wonder White, Round-podded Asgrow Strain</b> .....	6	½	64
<p>Vigorous plants, 5-6 ft. tall, with dark green, medium heavy foliage. Pods nearly straight, round and very meaty, stringless at all stages, tender and of good flavor. Shows resistance to rust and has a long bearing season. Seed medium oval, pure white.</p>			
<b>Kentucky Wonder White, Resistant</b> .....	7	½	65
<p>Plants wiry and vigorous, 5-5½ ft. high. Stools well, and in some sections of California is grown without poling as a winter crop; gives heavy yields in this way. Said to show resistance to certain forms of rust. Seed pure white, flat and somewhat dished.</p>			
<b>Kentucky Wonder White, U. S. No. 4</b> .....	8	½	65
<p>Developed by the U. S. Department of Agriculture as a high yielding type of Kentucky Wonder White, resistant to certain forms of rust. Plant vigorous, with dark leaves; pods oval, straight, dark green, stringless when young.</p>			
<b>Lazy Wife (White Cranberry)</b> .....	5½	¾	74
<p>For the home garden as snap, green shelled or dry beans. Pods in clusters and thus easy to pick, thick, fleshy, stringless, little fiber, glossy green. Seed roundish, solid white: 70 per oz.</p>			



*Ideal Market Stringless: A new Asgrow variety*

	Length of pod inches	Width of pod inches	Days
<b>LONDON HORTICULTURAL (Speckled Cranberry: Wren's Egg)</b>	5	5/8	70
<p>For home and market gardens as a snap and green shelled bean. Hardy and a good climber. Pods flat-oval, dark green when young, splashed with red, slightly curved, constricted, stringless, little fiber and very fleshy. Shelled beans of good flavor. Seed large, oval; color buff splashed with dark red: 50 per oz.</p>			
<b>Mammoth Horticultural</b> .....	6½	¾	73
<p>The largest podded and largest seeded of the Horticultural beans. Pods attractive in size and heavily splashed with red. Seed like London Horticultural in color, but larger.</p>			
<b>McCASLAN</b> .....	7½	9/16	65
<p>Of Georgia origin, introduced by H. G. Hastings Co. in 1912; an excellent sort for dry shelled as well as snap beans. Plant similar to Burger's Stringless; good climber. Pods large, thick-flat, medium green, meaty, stringless when young, tender, and of good quality. Seed ivory white, flat: 80 per oz.</p>			

**BEANS—Continued**

	Length of pod inches	Width of pod inches	Days
Missouri Wonder (Nancy D.: Noxall) .....	6	1/2	66
<p>Usually planted in corn for use as green shelled beans or as snap beans when young. Plant large, good climber, prolific. Pods nearly round; medium green, later splashed with red; become tough, stringy and fibrous. Seed large, oblong oval-flat, grey-buff mottled with tan: 70 per oz.</p>			
OREGON GIANT, Stringless .....	8 1/2	9/16	71
<p>A new Asgrow-bred strain of this Northwestern garden variety, with larger, more prolific plants, and pods stringless at all stages. The plants are sturdy and climb well; the pods are long, large, thick-flat, stringless, very meaty, light green, splashed purplish blue. Seed kidney shaped; color pinkish light brown with broken lateral, blackish stripes: 50 per oz.</p>			
Scarlet Runner <i>Phaseolus multiflorus</i> .....	6	5/8	90
<p>Of large plant growth, 12-15 ft. with brilliant scarlet flowers. Used for decorative purposes as well as for snap and green shelled beans. Pods broad, oval, meaty. Seed long-oval, dark purple mottled with bluish violet: 25 per oz.</p>			
Striped Creaseback .....	6	7/16	72
<p>An old variety for snap bean use. Pods round, straight, shaded with purplish brown at later stages; fleshy, of fair quality, stringy. Seed oval, tan with brown mottling and stripes: 120 per oz.</p>			
Tennessee Wonder (Brown Sickle: Egg Harbor: Striped Sickle) .....	8 1/8	5/8	70
<p>The pods are considered the largest, straightest and most handsome of all cultivated beans. Plant medium, of good climbing habit, lightly productive. Pods light green, round, constricted, deeply creasebacked, fiberless and nearly stringless, coarse in texture. Seed slate-grey marked with long stripes of dark olive-green: 65 per oz.</p>			
U. S. No. 3 .....	6	1/2	64
<p>Introduced in 1934 by the U. S. Department of Agriculture. Resistant to rust No. 1. Plant vigorous, 5-6 ft. tall. Pods round, fairly straight, medium green, smooth, meaty, stringless and tender. Seed medium large, oval, solid white.</p>			
WHITE CORNFIELD .....	5	1/2	80
<p>Popular in the South for green snap beans and for dry shelled. Plant vigorous growing and prolific with long bearing period. Pods medium green, round, meaty and tender. Seed oval, white: 110 per oz.</p>			
WHITE CREASEBACK .....	5	1/2	62
<p>For home and market gardens. Early, vigorous; strongly productive. Snap pods oval-round, dull green, fleshy, stringless when young, tender, and of good quality. Seed small, oval, ivory white: 120 per oz.</p>			
Yard Long (Asparagus Bean) <i>Vigna sesquipedalis</i> .....	18	1/4	72
<p>A member of the cowpea group, grown for forage or as a curiosity. Pods greatly elongated, nearly round, with light string. Seed reddish brown with black eye: 125 per oz.</p>			

## LIMA BEANS: Dwarf or Bush

*Phaseolus lunatus*

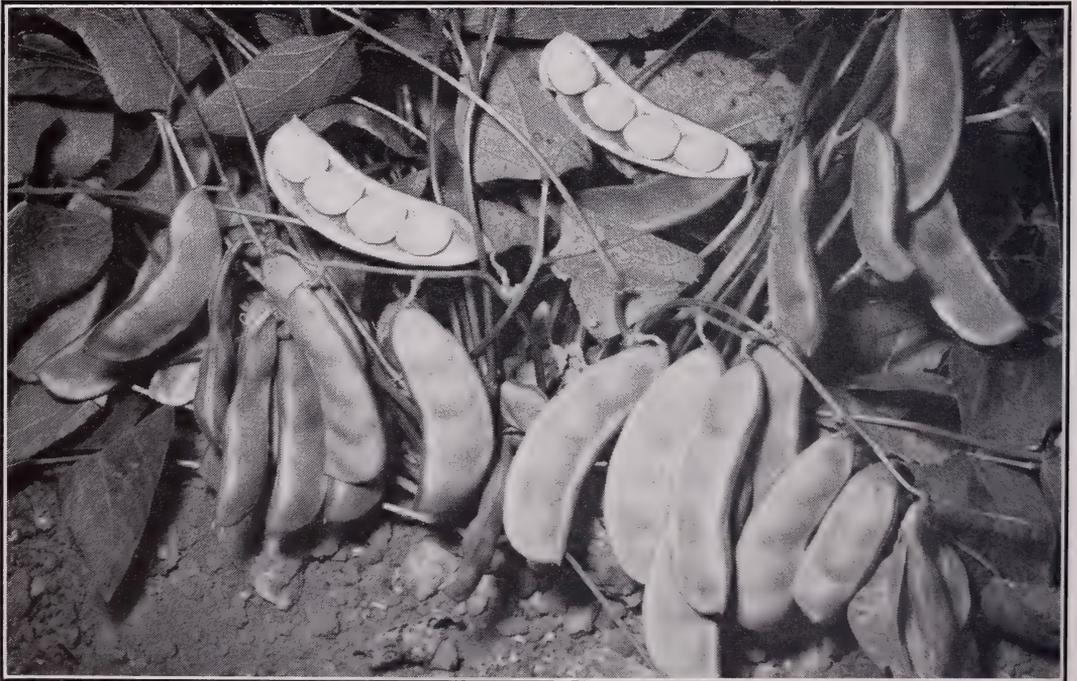
	Length of pod inches	Width of pod inches	Days
Baby Potato .....	2¾	¾	72
All-America Silver Medal for 1940. Originally selected by Prof. W. A. Huelsen, University of Illinois; developed and introduced by Associated Seed Growers, Inc. The beans are small but thick, of bright green color when fresh, and similar in flavor to Fordhook. A thriftier and more robust plant than Henderson's Bush, averaging 3.3 seeds per pod and maturing very uniformly; adapted not only for produce markets but also for canning and quick freezing. Seeds white: 65 per oz.			
EARLY BABY POTATO .....	2½	¾	66
Similar to Baby Potato but a week earlier and with slightly lighter pods. Developed by us for areas of shorter season or to follow an earlier crop.			
Baby Fordhook .....	2¼	⅝	70
Developed by Dr. Roy Magruder at the Ohio Experiment Station from Fordhook x Henderson's. Plant small but branchy and vigorous; pods resemble Henderson's Bush but are smaller and thicker, very numerous, slightly curved, tightly filled with 3-4 small plump seeds of high quality, deep green early, lightening in color later. Seed light cream: 65 per oz.			
Burpee's Bush .....	4½	1	77
Plant medium large, vigorous, highly productive. Pods slender, with 3-4 grayish white seeds, large, broad, flat, of excellent quality: 25 per oz.			
Burpee's Improved Bush .....	5	1¼	75
Plant large, erect, vigorous, very productive; pods in clusters of 5 or 6, averaging 4 seeds each. Dry beans large, plump, flat-oval, white with greenish tinge: 20 per oz.			



*Baby Potato Lima: All-America Silver Medal, 1940*

## LIMA BEANS—Continued

	Length of pod inches	Width of pod inches	Days
<b>CLARK'S BUSH</b> .....	2 $\frac{3}{4}$	$\frac{3}{4}$	65
Exclusively a product of the Asgrow breeding program, this is an entirely new variety of Henderson's Bush type, resembling the original in plant and pod but distinguished by its freedom from white beans at all picking stages. Chiefly of value to processors but is also a very attractive small-seeded type for the garden. Dry seeds mainly pale green: 70 per oz.			
<b>FORDHOOK BUSH</b> .....	4	1	75
Large seeded potato lima type. Well adapted for market gardeners and shippers. Plant large, upright, very sensitive to environment, highly productive. Pods straight, long, with thick fibrous walls; contain 3-4 large, thick-oval beans of excellent quality. Dry beans white with tinge of green: 20 per oz.			
<b>FORDHOOK, ASGROW STRAIN</b> .....	3 $\frac{3}{4}$	1	71
Bred at our Milpitas, California, station. Markedly different from the old Fordhook in that pods are concentrated not only in regard to position but also in time of reaching maturity. The plants are stocky, without tendrils, and very prolific. The seeds are slightly smaller but somewhat thicker.			
<b>HENDERSON'S BUSH</b> .....	2 $\frac{3}{4}$	$\frac{3}{4}$	65
Sometimes called Baby Lima, and known in the South as a Butter Bean. Used largely by canners. The Asgrow strain has been bred particularly for increased yielding power and concentration in season. Plant small, dark green, erect, bushy, very early. Pods flat, containing 3-4 flattish, small oval beans. Dry beans creamy white: 70 per oz.			



*Fordhook, Asgrow Strain: A single plant*



*Clark's Bush Lima: developed through many years of Asgrow breeding*

	Length of pod inches	Width of pod inches	Days
JACKSON WONDER (Calico) .....	3	$\frac{3}{4}$	65
Of Georgia origin and well adapted to the South. Plant small to medium, spreading without runners, very glossy, dark green, drought resistant, thrifty and productive; resembles Henderson's Bush. Pods flat, contain 3-4 strongly flavored beans. Seed small, flat, light, buff mottled with purplish black: 75 per oz.			

Wood's Prolific .....	$3\frac{1}{4}$	$\frac{3}{4}$	69
Similar to Henderson's Bush in type, but with larger plant and somewhat larger pod and seed: 65 per oz.			

### Pole Varieties

Carpinteria .....	5	$1\frac{1}{4}$	88
Plant tall, vigorous, prolific. Pods smooth, straight with 3-5 beans. Seed large, thick-flat, greenish white: 25 per oz.			

Challenger, Improved (Fordhook Pole: Burpee's Best) .....	4	$1\frac{1}{4}$	92
A potato lima, similar in pod and seed to Fordhook Bush Lima. Plant vigorous, hardy, good climber, very productive. Pods straight, smooth. Seed large, almost as wide as long, flattish oval, white with greenish tinge: 30 per oz.			

FLORIDA BUTTER SPECKLED .....	$3\frac{1}{4}$	$\frac{7}{8}$	78
A popular variety in the South. Plant similar to Sieva, tall, vigorous, prolific over a long bearing season, stands up well in summer weather. Pods borne in clusters: 3 beans per pod. Seed small; color buff spotted with reddish brown: 65 per oz.			

**LIMA BEANS—Continued**

	Length of pod inches	Width of pod inches	Days
<b>Giant Butter Speckled</b> .....	4	1¼	90
Tall and strong plants, later than Florida Butter Speckled but with larger pods and beans. Seed large oval, greenish white with reddish-brown mottling: 35 per oz.			
<b>GIANT PODDED</b> .....	6½	1¼	90
Plant 8-10 ft., dependably vigorous and productive. Large pods contain 4-5 oval-flat beans of excellent quality. Seed large, dull white: 20 per oz.			
<b>KING OF THE GARDEN</b> .....	7	1¼	88
The most widely used pole lima; introduced by Frank S. Platt in 1883. Plant tall, good climber, hardy and vigorous, heavily productive. Pods flat, smooth with 4-5 large, oval greenish white beans. Seed large, flat, white: 25 per oz.			
<b>Large White</b> .....	5	1¼	88
Plant 8 ft., vigorous climber, prolific. Pods contain 3-4 seeds. Dry beans large, very flat, white: 25 per oz.			
<b>Leviathan</b> .....	5	1¼	79
Larger and more attractive than Early Jersey or Seibert's Early. Plant 6 ft., vigorous, prolific. Pods broad and straight, containing 5-6 beans. Seed large, flat, dull white: 25 per oz.			
<b>SIEVA (Carolina Small White)</b> .....	3	¾	77
Grown extensively in the South where it is known as Butter Bean. Plant 10 ft. tall, hardy, vigorous climber, bears over long season. Pods medium green, contain 3-4 beans of excellent quality. Seed white, flat, smooth: 75 per oz.			
<b>Willow Leaf</b> .....	3	¾	80
Very similar to Sieva but with narrow, willow-like leaves and thus more resistant to the conditions of hot and dry weather in those sections of the South where it is grown.			
<b>Wood's Improved</b> .....	3½	⅞	80
Similar to Sieva, but somewhat larger in pod and seed. Plant large, 9 ft. tall, vigorous, heavily productive. Pods slightly curved, contain 3-4 beans. Seed somewhat triangular, flat, dull white: 50 per oz.			



*Florida Butter Speckled: Challenger: Giant Butter Speckled: King of the Garden*

## Edible Soybeans

*Soja max*

In recent years many varieties of edible soybeans have been imported from the Orient by the U. S. Dept. of Agriculture and detailed studies on their adaptation to North American growing conditions have been made, mainly at the University of Illinois.

As a result a number of varieties eminently suitable for table use in this country have been developed. The most promising of these, listed as follows, have been multiplied for seed on the Asgrow farms. They are very prolific, highly resistant to disease and insect pests, of attractive appearance and eating qualities when cooked and served similarly to Lima beans.

The number of days refers to picking for use as green shelled beans; full maturity, for dry shelled beans, is reached about 30 days later.

Note: At green eating stage all the following varieties have medium dark green beans, more or less oval in shape though varying in size. The particulars given below refer to the dry stage.



	Days
Bansei .....	90
Plants erect and of medium height, very prolific, well adapted for short season areas. Beans glossy yellow, elliptical, of mild and pleasing flavor.	
Emperor .....	108
Plants vigorous, branchy and sprawling. Pods large, gray. Beans large, oval, yellow.	
Giant Green .....	77
The earliest variety. Plants short and erect; pods large; beans plump, large, oval, green with dark eye-ring; for use shelled green.	
Hokkaido .....	93
Plant erect and of medium height. Pods large, gray. Beans large, almost spherical, yellowish, of nut-like flavor. A good mid-season variety, green or dry.	
Willomi .....	95
Plant fairly erect, of medium height. Beans large, nearly spherical, yellow. Of fine quality.	

## BEET

*Beta vulgaris*

In the production of the leading varieties of beet we have bred pedigreed strains for critical market garden, shipping and canning trade. Earliness, evenness of maturity, depth of color and small tap roots are features of these stocks grown from mother beets selected with discriminating care. The number of days shows the time required under average conditions in the North from planting of seed to the production of roots about  $1\frac{3}{4}$ " in diameter.

### ASGROW CANNER ..... Days 66

All-America Silver Medal 1936. Though bred primarily for home and commercial canning, this excellent variety is now also widely used as a table beet because of its very deep, attractive color and superior quality. Tops strong and erect, medium tall, about 14", green with red ribs. Roots smooth, globe-shaped, with small neck; dark maroon-red. Flesh lively deep ox-blood red; exceptionally vivid and attractive when cut; richly colored juice. Holds quality well until roots are full-grown.

### ASGROW WONDER ..... 57

All-America Gold Medal 1934; since then has been confirmed in leadership by growers and shippers. A pedigreed stock, the result of many years of breeding; unsurpassed in earliness, uniformity, and in depth of interior color. Distinctive green tops, erect, uniform in size and color, bunching very attractively for market. Roots round when young, semi-globular later, deep red, smooth, with small neck and tap root. Flesh deep dark red, tender, and of excellent quality.

### Crimson Globe ..... 69

A main crop variety of medium season maturity, with large globe-shaped roots; flesh purplish red with moderately prominent light zones; foliage medium green tinged with bronze.



*Asgrow Wonder*



*Asgrow Canner*

	Days
<b>CROSBY'S EGYPTIAN</b> .....	60
A standard early variety, very popular with market gardeners, as the tops bunch well and it makes a good appearance with dark red, flat-globe or turnip shaped roots. Small tap root. Tops large and tall. Flesh purplish red. The Asgrow strain of this important variety has comparatively indistinct lighter zones.	
<b>DETROIT DARK RED</b> .....	68
A standard variety for truckers, produce shippers and canners. The Asgrow pure-bred strain is of excellent quality. Tops medium, dark green tinged with red. Roots globular, smooth, uniform, attractive, with small tap root. Color deep ox-blood red. Flesh dark red with indistinct lighter red zones. Fine quality, sweet and tender.	
<b>Early Flat Red Egyptian</b> .....	54
Very early, used by truckers for forcing to reach the earliest market. Tops small and erect. Roots flattish, medium dark red. Flesh bright blood red with lighter zones.	
<b>Early Wonder</b> .....	58
A standard variety now largely superseded by Asgrow Wonder. Tops medium and green. Roots semi-globular, dark purplish red, with small tap root. Flesh blood red with zones of somewhat lighter shade.	
<b>Early Blood Turnip</b> .....	68
For home and market gardens. Tops medium, but somewhat coarse. Roots turnip-shaped; dark red. Flesh bright red with zones of lighter shade.	
<b>Eclipse</b> .....	65
Roots globular, of medium size, dark red. Interior bright red with whitish zones.	
<b>Long Smooth Blood</b> .....	78
A well-known late variety for winter use; grows partly out of ground. Tops erect, large. Roots 10"-12" long; 2"-2½" diameter, dark purplish red; flesh deep purplish red with inconspicuous zones; of good quality and suited for winter storage.	
<b>Lutz Green Leaf (New Century)</b> .....	75
For home gardens. Tops glossy green, with pink mid-rib. Roots half long, top-shaped; dark, purplish red. Flesh deep blood red with indistinct zones. Of good quality and an excellent keeper.	
<b>OHIO CANNER</b> .....	73
Developed by Dr. Roy Magruder at the Ohio Agricultural Experiment Station, and awarded the All-America Silver Medal for 1933. Tops medium small, erect. Roots flattened globe in shape, smooth, ox-blood red; flesh dark red with indistinct slightly lighter zones, sweet and tender.	
<b>PERFECTED DETROIT</b> .....	70
Tops tall, green and red. Roots globular, medium smooth, deep red; flesh dark red and practically free from zoning; of good quality. Adapted to market gardener and canner.	
<b>Vermilion Crosby</b> .....	58
The distinguishing characteristic of this strain of Crosby's Egyptian is described in its name; the flesh is distinctly vermilion in color, otherwise plants and roots are similar to the original. Quality fair.	

## MANGEL WURZEL

*Beta vulgaris*

	Days
Giant Half Sugar, Rose .....	90
A heavy yielding, valuable variety for feeding. Roots long, oval; skin white with rose-colored shoulder; flesh white, with good sugar content.	
Giant Half Sugar, White .....	90
Roots long, oval, with white skin; flesh white; a good feeding variety.	
Golden Tankard .....	102
Roots large, nearly cylindrical, grayish above ground, deep yellow below. The only yellow-fleshed variety. Does well on light soils. Flesh yellow with white zones; very productive.	
MAMMOTH LONG RED .....	110
The most popular variety and the best cropper. Roots extremely large, long, slightly tapering; grow half above ground. Color light red; flesh white with rose tinge.	
Sludstrup .....	110
A good cropper and of high feeding value. Roots long, oval, reddish yellow; grow half above ground, easily harvested. Flesh white, tinged with yellow.	

## SUGAR BEET

*Beta vulgaris*

Klein Wanzleben .....	90
A variety largely used for sugar manufacture on account of high sugar content; is also good for stock feeding. Roots long with thick shoulder; tapered; skin gray-white; flesh solid white.	

## SWISS CHARD

Also known as Spinach Beet or Leaf Beet

*Beta vulgaris* var. *cicla*

Common Green .....	55
Smooth leaves of medium green with slender mid-ribs of lighter green; leaves used for greens. Also known as Perpetual Spinach.	
FORDHOOK GIANT .....	55
Tall and sturdy; increasingly used. Leaves broad, heavily crumpled, dark green; stems broad, thick, white.	
LUCULLUS .....	50
Popular for home and market gardens. Upstanding in habit of growth; leaves crumpled, bright yellowish green; stems thick, broad, and pale green.	
White Silver .....	50
A medium tall sort with broad, smooth, medium green leaves. Stems fleshy, broad, white with greenish tinge.	

## BROCCOLI

### Sprouting or Italian type

*Brassica oleracea* var. *italica*

	Days
GREEN SPROUTING, EARLY (CALABRESE) .....	70

The leading variety for shippers, market gardeners and home gardens. The tall branching plant forms a compact head of bluish green flower buds resembling a head of cauliflower. After the main head has been removed, side shoots with small heads continue to develop. A delicious vegetable, steadily gaining in favor.

GREEN SPROUTING, MEDIUM .....	100
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Very similar in every way to our early strain, but about 30 days later in maturity.

Freezers' Sprouting Green .....	75
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A new variety of true sprouting type developed at our Milpitas, California, breeding station, to meet a need of the quick-freezing industry. Many individual sprouts with small heads are formed, but are not concentrated into a main head, thus allowing a better growth for their special purpose and facilitating picking and packing.

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#### Broccoli Rab (Italian Turnip)

For description see listing under Turnip (page 94).

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## Cauliflower Broccoli

*Brassica oleracea* var. *botrytis*

Purple Cape .....	70
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A distinctive variety with purple, somewhat coarse, large, compact head; leaves large, crinkled, dark green; of medium season; for home garden use.

White Cape .....	70
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A large, creamy white, firm head. Leaves dark green and numerous, protecting the head well; a dependable header for home and market gardens.

St. Valentine .....	75
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For early spring shipping. Plants large with dark green leaves; heads very large, solid, white, attractive and well covered. Used mostly in Pacific Coast areas.

## BRUSSELS SPROUTS

*Brassica oleracea* var. *gemmifera*

Half Dwarf Improved, Long Island strain .....	70
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Plants 22"-26" tall; stems thickly set, with firm cabbage-like balls of 1½" diameter, maturing successively.

## CABBAGE

*Brassica oleracea var. capitata*

Our cabbage seed is produced largely in the Puget Sound section at our western Washington production branch from seed stocks of highest quality. Each year the various varieties are checked at our Eastern breeding station, Milford, Conn., to guard the vital factors of earliness, evenness of maturity and uniformity.

The column of Days gives relative period to maturity from setting out plants.

Varieties marked y.r. have been developed, mainly at the University of Wisconsin, for resistance to the cabbage-yellows disease. It is recommended that only these varieties be planted in infested areas.

	Diameter of head inches	Weight of head pounds	Days
All Head Early .....	9	6	78
Excellent for shipping and for kraut. Heads deep, medium flat, slightly rounded at top and slightly sloping at base, 7" deep, solid, uniform and of good quality. Outer leaves gray green.			
All Head Select, y.r. ....	9	6	78
Resembles standard strains of All Head, but is less uniform and somewhat coarser in texture. Firm heads, flat to slightly rounded at top. For shipping or early sauerkraut.			
All Seasons .....	9	8	87
A good keeper, popular with makers of kraut. Heads large, solid, 7" deep, and of excellent quality; a good cropper.			
CHARLESTON WAKEFIELD .....	6½	4	74
Used in the South for winter shipping to northern markets; excellent for home gardens and truckers. Heads pointed and fairly firm, outer leaves dark green; 7"-8" long.			
COPENHAGEN MARKET .....	6½	3½	69
Dependably early and uniform, used largely as an early shipper; desirable also for early kraut. Outer leaves few and of gray green color, short stem; heads round, solid, and of superior quality. An excellent short season type.			
DANISH BALL HEAD (Hollander) .....	7½	6½	103
Most widely used and best type of late cabbage for kraut, for storage and for shipping. Plant fairly large, sturdy, with short stem; outer leaves medium. Heads deep round, very hard; interior decidedly compact, leaves composing head smooth and closely arranged. Texture tender, crisp; flavor good; ideal for high quality kraut.			
EARLY ROUND DUTCH .....	7½	4½	71
Used for early shipping and by truckers for local markets. Plant small with short stem. Head nearly round, 5½"-6½" deep, solid and of good quality.			
GLORY OF ENKHUIZEN .....	8	5	77
A very attractive second early variety, used largely for kraut, also by truckers and shippers. Heads large, round, solid, with few outer gray-green leaves; of excellent quality.			
GOLDEN ACRE .....	6	3	64
An extra early Copenhagen type with small, round, quite solid heads, maturing with Jersey Wakefield. Plant dwarf, with few outer leaves; used by truckers for the early markets.			



*Danish Ball Head: A favorite late variety*

	Diameter of head inches	Weight of head pounds	Days
<b>GREEN ACRE</b> .....	6	3	66
An attractive strain of Golden Acre. The type and general characteristics are the same, but Green Acre holds its green color longer and is thus of added value to market gardeners and shippers.			
<b>Improved Globe, y.r.</b> .....	8	6	77
An improved resistant strain of Glory of Enkhuizen. Large, round, solid heads.			
<b>Jersey Queen, y.r.</b> .....	5	2½	66
A selection from Jersey Wakefield. Heads small, compact, conical; leaves smooth, dark green.			
<b>Jersey Wakefield</b> .....	5	2½	63
An extensively used and popular extra early variety, with small, fairly compact, conical heads 7" long. Plant small, with short stems, permitting close setting in the row, leaf color dark green. Used largely by market gardeners and shippers.			
<b>Large American Drumhead</b> .....	12	11	110
Quite similar to Premium Late Flat Dutch but shorter in stem; large, spreading, dark green leaves. Heads very large, flat, solid, 6½" deep. For home and market gardens, also for shipping. A good keeper.			
<b>Mammoth Red Rock</b> .....	7	7	100
A large strain of the standard red cabbage. Heads round, very hard; color purplish red; an excellent keeper.			

## CABBAGE—Continued

	Diameter of head inches	Weight of head pounds	Days
<b>MARION MARKET, y.r.</b> .....	6½	4½	79
A development from Copenhagen Market but with slightly larger, later maturing, round, firm heads; leaves more blue-green. Good for kraut or market.			
<b>Midseason Market (Steadfast)</b> .....	8	6	78
Plants vigorous and rapid growing. Heads large, hard, globe-shaped on short stems, medium yellowish green leaves with creamy white center, of crisp texture and good quality.			
<b>Penn State Ball Head</b> .....	7½	5½	105
Heads extremely hard, flattened globe, 6"-7" deep. Desirable for winter storage and for kraut in districts free of the cabbage-yellows disease.			
<b>PREMIUM LATE FLAT DUTCH</b> .....	12	12	100
Deservedly popular for its heavy yield. Excellent for home and market gardens and for shipping. Heads very large, flat, and solid; leaves light gray green; 6½"-7" deep; of high quality.			
<b>Red Acre</b> .....			74
The earliest red variety. Plants small, compact and short stemmed; heads of medium size, round, very hard and deep red; uniform in shape and color.			
<b>Red Danish (Red Dutch)</b> .....	7	7	88
A superior strain of Red Rock developed by careful selection for uniformity and quality. Heads round, hard and heavy, deep colored throughout. A good shipper.			
<b>Red Hollander, y.r.</b> .....	7	6	100
As its name indicates, this variety combines red color with the round, hard head of the Hollander type. Good for shipping and storage.			



*Marion Market: A yellows-resistant type*

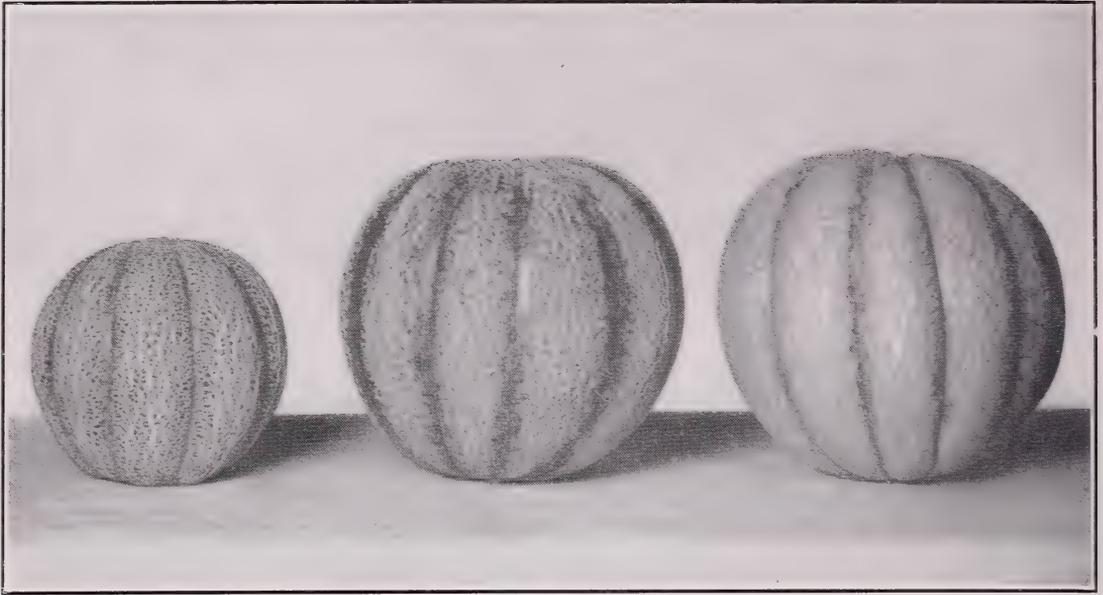
	Diameter of head inches	Weight of head pounds	Days
Resistant Golden Acre (Resistant Detroit), y.r. .... A Golden Acre type from Denmark into which yellows-resistance has been bred. Medium small, round heads. While earlier than Racine Market, is not so resistant.	6	3	65
SAVOY, PERFECTION DRUMHEAD ..... The best of the Savoy type for general use; an excellent keeper. Heads nearly round, full and hard; leaves large, coarsely crimped, rich dark green; of good quality.	8	6	90
STEIN'S EARLY FLAT DUTCH ..... Long and deservedly a favorite variety of the flat type for main crop in Fall, or winter storage. Used also for Fall planting in the South. Plant medium, vigorous, with very large, solid, flat heads, leaf color gray-green, 6" deep.	11	10	90
Succession ..... Heads large, flat, thick; 7½" deep, short stem; a dependable cropper of good quality.	10	8	88
Surehead ..... Of the Late Flat Dutch type; medium long stem; a dependable header. Outer leaves not numerous but of upright growth. Heads large, round, somewhat flattened.	10	9	77
Winningstadt ..... Short stemmed, vigorous, and a dependable header, for market gardens and shipping. Heads very solid, fine grained, 7"-8" long. The leaves have a distinct twist at point of head.	6	3½	83
Wisconsin All Season, y.r. .... A hardy drumhead variety which shows considerable resistance to drought and mosaic as well as to yellows. For fall markets in the North and Southern winter crop. Slightly coarser than standard All Seasons.	10	9	95
Wisconsin Ball Head, y.r. .... Heads very hard, smaller but more uniform and smoother than Wisconsin Hollander, short stem, blue-green leaves.	7	7	100
Wisconsin Hollander, y.r. .... Selected from Danish Ballhead, the first yellows-resistant variety of the series developed by Prof. L. R. Jones and Dr. J. C. Walker at the University of Wisconsin; now greatly improved in quality and resistance. Heads round, becoming slightly flattened, color blue-green. A heavy cropper.	7½	8	105

## CHINESE CABBAGE

*Brassica pekinensis*

Also called Celery Cabbage, though the correct name of the species is Pe-Tsai.

	Length	Days
CHIHLI (Improved Pekin) ..... Early and dependable in heading. Head 3"-4" thick, tapered at tip, solid, blanched well, sweet and tender. A superior variety.	18	75
Pe Tsai ..... Correctly called Chokurei. Early and sure heading. Outer dark green leaves enclose cylindrical, tapering head.	15	75
Wong Bok ..... A short stout oval variety, about 7" in diameter; compact, tender, and well blanched. Grown in the South.	9	85



*Hearts of Gold*

*Bender's Surprise*

*Tip Top*

## CANTALOUPE AND MUSKMELON

*Cucumis melo*

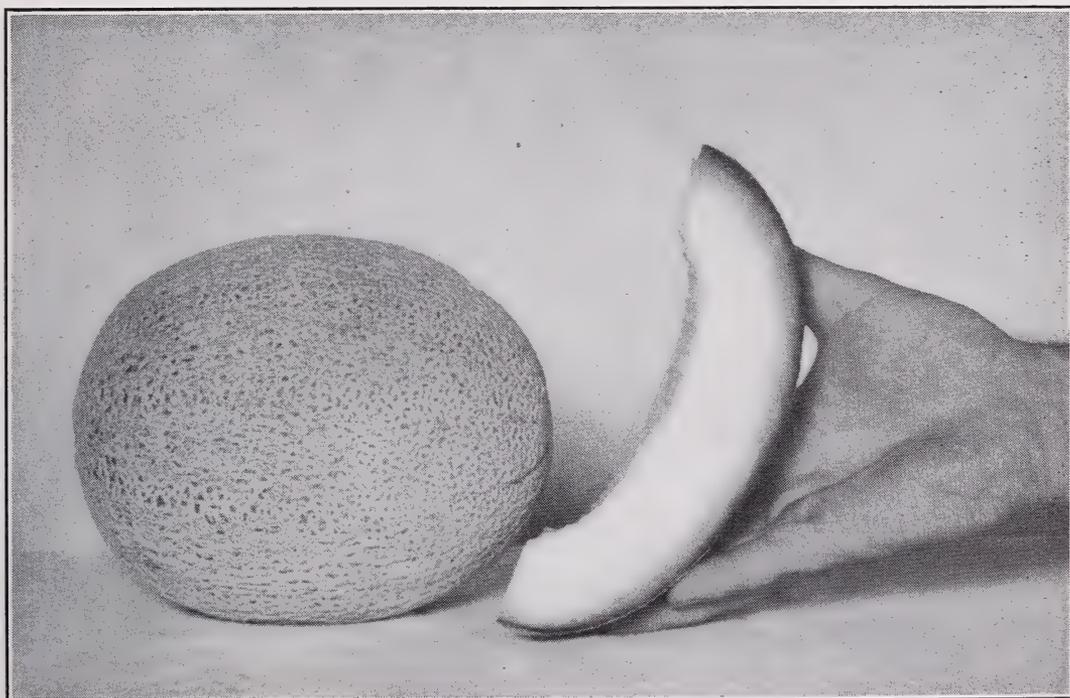
The days to maturity for the different varieties are based on average results obtained from plantings in Colorado.

	Length inches	Diam- eter inches	Days
Banana .....	18	4	98
Resembles a huge banana in shape. Fruits smooth and slender, lemon colored; tapering at ends, 6 lb.; flesh pronounced salmon, of somewhat banana-like flavor. Good for late planting in the South.			
BENDER'S SURPRISE .....	8	7	90
Fruits thick-oval, 7 lb.; coarsely netted, distinctly ribbed; skin hard and greenish yellow at maturity; flesh bright salmon; of delicious quality; can be shipped short distances.			
Burrell's Gem (Defender) .....	6	4½	90
Fruits oblong, 3 lb.; medium in netting and distinctly ribbed; outer color deep green until maturity; flesh thick, firm, pink-salmon, of excellent quality.			
Casaba (Golden Beauty) .....	8	7	110
Grown largely in the hotter sections of California. Stands up well for shipping long distances. Fruits medium large, globe shaped; 6 lb.; outer color golden yellow; surface wrinkled. Flesh white, luscious and spicy.			
DELICIOUS (Early Bender: Little Bender) .....	6½	6	83
Similar to Bender's Surprise but much earlier and of superior quality. Fruits 5½ lb.; coarse netting with prominent ribs; rind hard, creamy green at maturity. Flesh bright salmon; thick and of delicious quality. Good for local markets, especially in districts of shorter season.			

	Length inches	Diam- eter inches	Days
Eden Gem ..... Slightly oval shape, 3½ lb.; heavily covered with fine netting, and without ribs. Flesh green, tinted salmon at center; excel- lent quality, and a good shipper. Vines are rust resistant.	5½	5	85
Emerald Gem ..... For home gardens, does not keep. Outer color emerald green yellowing at maturity; distinctly ribbed, with slight netting; 3 lb. Flesh very thick, deep rich salmon color, sweet and of spicy flavor.	4½	5½	85
Extra Early Hackensack ..... For home gardens and local markets. Fruits large, globular, flattened; 3 lb.; heavily ribbed, with coarse netting. Flesh green, thick, of good quality.	5½	6½	80
Fordhook ..... A medium sized melon for home gardens and nearby markets; 2 lb. Outer color buff mottled green; flesh medium, orange- yellow, juicy, sweet and spicy.	4	5	88
Golden Gopher ..... Developed at the University Farm, St. Paul, Minn., for resis- tance to fusarium wilt and introduced in 1941. Fruits oval, with light but coarse netting; about 3½ lb. Uniform and early.	6	5¼	85
HALE'S BEST ..... The original strain of this outstanding shipping variety which is planted extensively in melon-producing sections of the West, South and East. Fruits oval; inconspicuous ribbing with heavy netting. Flesh extremely thick, salmon-orange, sweet and of very fine quality.	6	5	82
HALE'S BEST, IMPROVED No. 36, Asgrow Strain ..... Our improved strain of Hale's Best, developed from No. 36 for uniformity in shape and complete netting with sutures nearly eliminated. An outstanding shipping and market variety. Fruits 3-4 lb. with exceptionally thick, deep salmon colored flesh; sweet, aromatic and of very fine quality.	6	5½	80
HALE'S BEST, JUMBO STRAIN ..... A large-fruited strain of this leading variety for local markets, preferred in some areas to Bender's Surprise or Tip Top. Fruits oval, 5-6 lb.; ribbing somewhat prominent, heavily netted. Flesh thick, salmon-orange, sweet and of excellent quality; seed pocket rather large.	7½	6	83
Hearts of Gold (Hoodoo) ..... Grown extensively for local markets. Fruits nearly round, 3 lb.; distinctly ribbed, deep green, covered with fine gray net- ting. Flesh very thick, deep salmon; tender, juicy, sweet and aromatic.	6	6	90
Honey Ball ..... Excellent for home and market garden use, as well as shipping. Fruits round, 3½ lb., yellowish white; smooth, with sparse, coarse netting. Flesh gray-green, juicy, with sweet, slightly spicy flavor.	5	5	105
Honey Dew ..... A distinct type grown largely in California and Colorado; an excellent shipper and keeper. Fruits large, globular; 6 lb. Sur- face smooth, hard, with practically no netting; creamy white. Flesh light emerald green, thick, ripening to the rind; juicy and tender, with a distinctive sweetness of its own.	8	7½	112

	Length inches	Diam- eter inches	Days
<b>HONEY ROCK (Sugar Rock)</b> .....	6	5½	81
Introduced by the J. C. Robinson Seed Co. All-America Gold Medal for 1933. Fruits nearly round, 4 lb. Skin gray-green, covered with coarse, sparse netting. Flesh thick, juicy, orange-salmon, with very fine flavor; ¼" green ring beneath rind. Good for home use and local early markets.			
<b>Imperial No. 45, Powdery Mildew Resistant</b> .....	6¼	5½	87
Fruits short-oval, with indistinct ribbing and well netted. Flesh thick, firm, sweet and of good quality, light orange in color. Similar to Hale's Best. Can be picked on full slip (mature stage) for distant shipping.			
<b>Knight</b> .....	5½	4½	82
Fruits oblong, 2 lb.; skin deep green, maturing to golden yellow; heavily netted, ribbed. Flesh juicy, medium green, shading to pink at center.			
<b>Large Hackensack</b> .....	6½	8½	88
A very large type for home gardens and local markets. Fruits somewhat flattened, 7 lb.; prominently ribbed and with heavy netting. Flesh thick, green, juicy and sweet.			
<b>Milwaukee Market</b> .....	7	6	85
For home and market gardens in areas of shorter season. Fruits nearly round, 6 lb.; with prominent ribs and sparse, coarse netting; color light green. Flesh thick with small seed pocket. Salmon colored and of high sugar content.			
<b>Ohio Sugar</b> .....	7½	6½	91
Might be described as a green-fleshed Tip Top. An excellent variety of this type for the home garden.			
<b>Osage (Miller's Cream)</b> .....	7	6	95
For home and market gardens; not a good shipper. Fruits oval, 5½ lb.; exterior very dark green, deeply ribbed, covered with slight gray netting. Flesh exceptionally thick, rich orange-salmon; tender, sweet, and of distinct flavor.			
<b>PERFECTO, IMPROVED</b> .....	5½	5	88
Introduced by Garwood and Woodside. All-America Silver Medal for 1933. Rust resistant and a good cropper. Very desirable for shipping or market gardens. Fruits nearly round, 3 lb., with hard gray netting, and no ribs. Flesh very thick with extremely small seed cavity, deep salmon color; fine grained, juicy, sweet and aromatic. The Asgrow strain is a few days earlier than other strains.			
<b>Persian</b> .....	9	8	115
Grown in California. Fruits globular; 8 lb., rind very dark green, netting fine but sparse. Flesh thick, orange in color; of distinctive flavor.			
<b>Persian, Small or Baby Strain</b> .....	6½	6	110
A recent development, providing a neater, more compact melon of the Persian type, better adapted for shipping, but preserving the flavor and general characteristics. Has solid netting and thick flesh; weighs about 5 lb.			

	Length inches	Diam- eter inches	Days
Pride of Wisconsin (Market King: Wayside Market) .....	6½	6	90
Introduced in 1937 by R. Buist Co. from a cross of Honey Rock and Hearts of Gold. Fruits oval, 3¾ lb.; rind pearly gray, faintly ribbed, with sparse, coarse netting. Orange flesh, solid and thick, with small seed cavity, very sweet and of fine flavor. A good variety for home gardens and short distance shipping.			
Queen of Colorado .....	7	6½	93
An improved strain of Pride of Wisconsin, somewhat larger and later, but otherwise similar.			
Rocky Ford (Netted Gem) .....	5½	5	92
Fruits are small with rather large seed cavity, nearly round, 2½ lb.; with very faint ribs, and heavily covered with hard gray netting; flesh thick, green in color, with gold tinge at the center; juicy, spicy, and of good flavor.			
TIP TOP .....	7¼	6½	90
A splendid variety for home gardens and local markets. Fruits large, slightly oval, 6½ lb.; skin pale green, turning to yellow at maturity; distinctly ribbed and slightly netted; flesh bright salmon, sweet and delicious; similar in type to Bender's Surprise and Milwaukee Market.			



*Hale's Best, Jumbo Strain: Preferred for local markets*

## CARDOON

*Cynara cardunculus*

### Smooth Solid

An almost spineless variety 4-4½ ft. high with broad solid stalks of good eating quality.

## CARROT

*Daucus carota*

Planting stocks are developed at our Breeding Stations from individual progenies which have met the most exacting specifications in performance. Smoothness and shapeliness of roots with depth of exterior and interior color are vital factors in rating parent lines.

In giving the number of days for the development of roots, we have used the average of readings for a period of years. These will vary considerably in different locations.

	Length of root inches	Diameter at shoulder inches	Days
<b>IMPERATOR</b> .....	8	1½	77
Our introduction; received All-America Silver Medal for 1933. An outstanding type specially developed to meet the demand of the critical market for a long, smooth, handsome carrot. Tops medium, but strong enough for good bunching. Roots have rounded shoulders, smooth, deep rich orange; uniformly tapered to a semi-blunt end. Flesh rich orange color, extending to center of root; fine grained, tender and of excellent quality. Emperor so nearly meets market growers' and shippers' specifications of the ideal carrot that in many sections it has practically displaced all other varieties.			
<b>CHANTENAY, IMPROVED LONG</b> .....	6	2	72
A well known and popular all-purpose variety; desirable for home and market gardens, and for canners in packing diced carrots; a good cropper. Roots deep orange, smooth, tapered, stump-rooted; flesh deep orange with indistinct core.			
<b>CHANTENAY, RED CORE</b> .....	5	2	72
Developed and introduced by C. C. Morse & Co. A desirable Chantenay with good interior color; valuable for canners and market gardeners. Roots somewhat shorter than Improved Chantenay; flesh reddish orange, with indistinct core of nearly the same color as the surrounding flesh; tender and sweet.			
<b>DANVERS HALF LONG</b> .....	6	1¾	75
An old favorite that still retains its popularity with many growers. Orange roots, with broad shoulder and blunt tip.			
<b>DANVERS, RED CORE</b> .....	7	2	75
We have bred an outstanding, fine, long variety of this important type; used by home and market gardeners, and extensively for shipping. Roots tapered to a blunt end, bright orange with core of very similar color, tender, and of good quality.			
<b>Early Scarlet Horn</b> .....	3½	1¼	64
Used by gardeners for early market. Tops slender and short; roots tapered and blunt, like a small, short Chantenay. Crisp, red-orange flesh.			
<b>French Forcing</b> .....	2¼	1¾	60
Used for earliest planting and for hot-house forcing. Tops very small; roots nearly round, red-orange. Flesh medium orange, crisp and of good flavor.			
<b>Hutchinson</b> .....	10	2¼	80
Used largely in New England gardens. Tops medium. Roots deep orange with greenish shoulder, nearly cylindrical, ending in abrupt stump end; flesh deep orange. Tender and of good quality.			

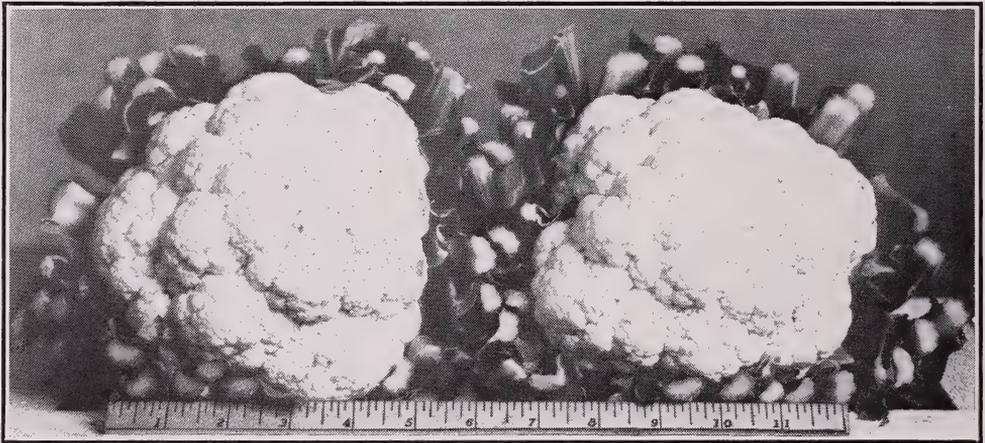
	Length of root inches	Diameter at shoulder inches	Days
<b>Long Orange</b> .....	11	2 $\frac{1}{4}$	88
A heavy cropping sort for garden use, and for stock. Large, strong tops, roots tapered to a point; red-orange. Flesh similar in color to exterior, with core of lighter shade.			
<b>Luc, Half Long</b> .....	6	1 $\frac{3}{4}$	75
An attractive sort for home and market gardens and for shipping. Roots midway between Danvers and Chantenay in type; bright orange, tapered, stump-rooted. Flesh bright deep orange; fine grained and tender.			
<b>NANTES IMPROVED CORELESS</b> .....	6	1 $\frac{1}{4}$	70
Excellent for forcing, as well as for home and market gardens. Tops very small. Roots bright orange, cylindrical, blunt ended. Flesh reddish orange, crisp, tender, and of very delicate flavor; practically coreless.			
<b>Oxheart (Guerande)</b> .....	4 $\frac{1}{2}$	2 $\frac{1}{2}$	72
Grown to some extent for home use, but chiefly for stock feed; prolific, and a good keeper. Roots bright orange, thick, blunt ended, of heart shape. Flesh coarse, deep orange; small tops; easily harvested.			
<b>Rubicon</b> .....	6 $\frac{1}{2}$	2 $\frac{1}{2}$	72
A general-purpose sort, a strong cropper, good for storage. Roots smooth, red-orange, nearly cylindrical, tapered and stump-rooted; flesh bright orange.			
<b>SHORT-TOP SHIPPER</b> .....	7 $\frac{1}{2}$	1 $\frac{3}{4}$	75
A new variety bred particularly for the shipping trade. Tops short, dark green, strong enough for good bunching. Roots long, deep orange, tapering to blunt end, resembling a shorter, stouter Emperor. Flesh bright orange, tender and of good quality.			
<b>St. Valery</b> .....	10	2 $\frac{3}{4}$	80
Suitable for field culture on light soils; a good cropper. Roots attractive, bright red-orange, tapering and pointed. Flesh red-orange, crisp and tender.			



*Selection of Emperor roots for transplanting to seed-production fields*

## CARROT—Continued

	Length of root inches	Diameter at shoulder inches	Days
Touchon .....	6½	1½	70
Similar to Nantes but a little longer. Tops small. Roots deep orange, cylindrical, stump-rooted. Flesh bright orange, tender, sweet, of fine flavor; core small and inconspicuous.			
White Belgian .....	12	3	95
Used exclusively for stock; grows partly out of ground; skin green above ground, white below. Flesh white with tinge of cream color.			
Yellow Belgian .....	12	3	95
Very similar to White Belgian, except for color. Pale yellow skin, with green top; hardy and productive.			



## CAULIFLOWER

*Brassica oleracea var. botrytis*

	Diameter of head inches	Days from Setting of plants
Danish Giant (Dry Weather) .....	7	67
Well adapted to dry weather conditions; later than Early Snowball and of larger growth. Heads creamy white, and of excellent quality.		
EARLY SNOWBALL .....	6½	55
The best and most widely used early variety. Plants dwarf, with short pale green leaves. Heads medium, firm, compact, solid, pure white, and of finest quality; a dependable header. Well adapted to shipping.		
Snowdrift .....	7½	57
One of the best varieties for shipping long distances. Plant of medium height with upstanding, medium green outer leaves. Head slightly larger than Snowball, firm, solid, very white, well protected by inner folding leaves; curd has fine texture and is free from small protruding leaves.		
SUPER-SNOWBALL .....	7	56
A highly desirable main crop variety, also used for early planting. Starts heading early and uniformly. Heads medium large, compact, very white; much used by produce growers and shippers.		

## CELERY

*Apium graveolens*

The time of maturity for the several varieties varies considerably in different sections. No vegetable seed requires more careful handling in production than celery.

### EASY BLANCHING (Sanford Superb)

An excellent second early green variety for home gardens and truckers. Vigorous and compact in habit of growth, it blanches readily to attractive white, and is a good keeper. Stalks slightly taller than Dwarf Golden Self Blanching, are thick, solid and of good flavor.

### Emperor

For home gardens and nearby markets. Plant dwarf and stocky, with large full golden heart. Stalks thick, broad and tender; not a good shipper.

### Giant Pascal

A green, home-garden variety, good for fall and winter storage. Plant large, stocky, with dark green leaves. Stalks long, broad, and solid; blanches to yellow-white; of excellent, nutty flavor.

### Golden Self Blanching, Dwarf Strain

This original French strain is still widely popular with market gardeners and shippers. Plants medium in height, stocky and compact; foliage yellowish green; stalks very solid, broad, of delicate flavor; blanches readily to golden yellow.

### GOLDEN SELF BLANCHING—TALL STRAIN

Earlier than the original strain, with taller, less sturdy stalks. Particularly desirable for truckers, but not as suited to shipping; blanches readily; of excellent quality.

### GOLDEN PLUME (Wonderful)

Similar to Golden Self Blanching, but earlier. Well suited to market garden planting and to shipping. Plant of medium height with compact, full heart; blanches readily to golden yellow; of excellent quality.

### Summer Pascal

A vigorous, compact green type, resistant to blight. Has fewer stalks than Utah, but more than Giant Pascal; long, solid, crisp, stringless and altogether of excellent table quality.

### UTAH (Golden Crisp)

A very desirable green type maturing a week earlier than Giant Pascal. Plant stocky, full hearted and compact; blanches readily. Stems thick, solid, medium broad and full rounded; of nutty flavor and fine quality, quite free from strings.

### White Plume

Leaves bright green, tinged with white; stalks medium, easily blanched to pure white; solid, crisp and of good quality.

## CELERIAC

*Apium graveolens* var. *rapaceum*

### Large Smooth Prague

A turnip-rooted celery. Plants dark green with hollow stalks. Bulbs spherical, with few roots, 2"-3" in diameter. Used for celery-like flavoring in soups.

## CHICORY

*Cichorium intybus*

### Cicoria di Catalogna (Radichetta)

Also known as Asparagus or Sprouting Chicory. An annual with leaves like dandelion, used for early greens; leaves and flower shoots very tender, with faint asparagus flavor. The improved Asgrow strain is more upright in habit of growth, and the leaves are medium cut with green stalk.

### Large Rooted (Magdeburg)

Dried roots are roasted and mixed with ground coffee. Roots 12"-14" long, 2" in diameter at top; tapered.

### Witloof (French Endive)

Used extensively for salads. The parsnip-shaped roots are reset for forcing in cold frame or greenhouse, and the new leaf growth forms an attractive, compact blanched head, 5"-6" long, having a pleasantly sharp flavor.

## CHIVE

*Allium schoenoprasum*

A small perennial belonging to the onion family which grows in clusters. May be grown from seed or propagated by division of the clusters. Leaves used in salads and for flavoring in soups and stews.

## COLLARD

*Brassica oleracea var. acephala*

A non-heading type of cabbage, used extensively in the South for "greens."

### Cabbage Collard

Medium tall, with a cluster of loose folding, tender leaves, which can be left on the plants and picked as needed. Of Georgia origin, from a cross between Georgia collard and Jersey Wakefield cabbage, and well adapted to Southern conditions.

### Georgia (Southern)

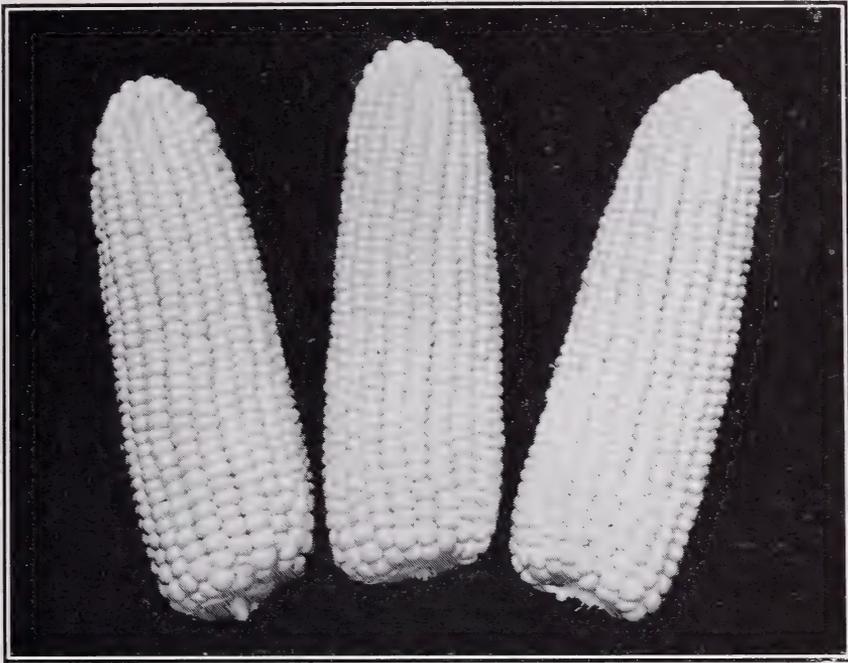
The old standard variety. Plant upstanding, and vigorous, with large, undulated leaves; withstands heat and adverse soil conditions. Of fine quality when cooked.

### Louisiana Sweet

An attractive strain of the old Georgia collard bred by Dr. J. C. Miller of Louisiana Experiment Station. Plant tall, hardy, with a cluster of large, thick, tender leaves. Leaf area much greater and with less leaf stem than other varieties.



*Asgrow corn breeding: A small, well-shielded isolation field*



*Allegheny: All-America Bronze Medal, 1941*

## SWEET CORN

*Zea mays v. saccharata*

Sweet corn has been a leader with us for eighty-five years, during which time we have originated many well-known varieties. Our production program includes the maintenance of excellent strains of standard sorts and the development of new, superior lines.

Through the use of more recent breeding methods for the improvement of sweet corn varieties, we have developed, through nearly twenty years of controlled pollination, many inbred lines of high merit. The crossing of these produces hybrids of outstanding vigor, uniformity and productivity. Disease resistance is also a vital factor and we can now furnish various varieties that are highly resistant to Stewart's disease or bacterial wilt.

The number of days indicated for each variety represents average trial row readings for many years at our Eastern breeding station, Milford, Conn.

In some sections maturity dates will naturally be different.

Varieties listed in larger letters are, in our judgment, the better and more important.

Varieties marked (y) have yellow kernels; those marked (w) have white.

## HYBRIDS

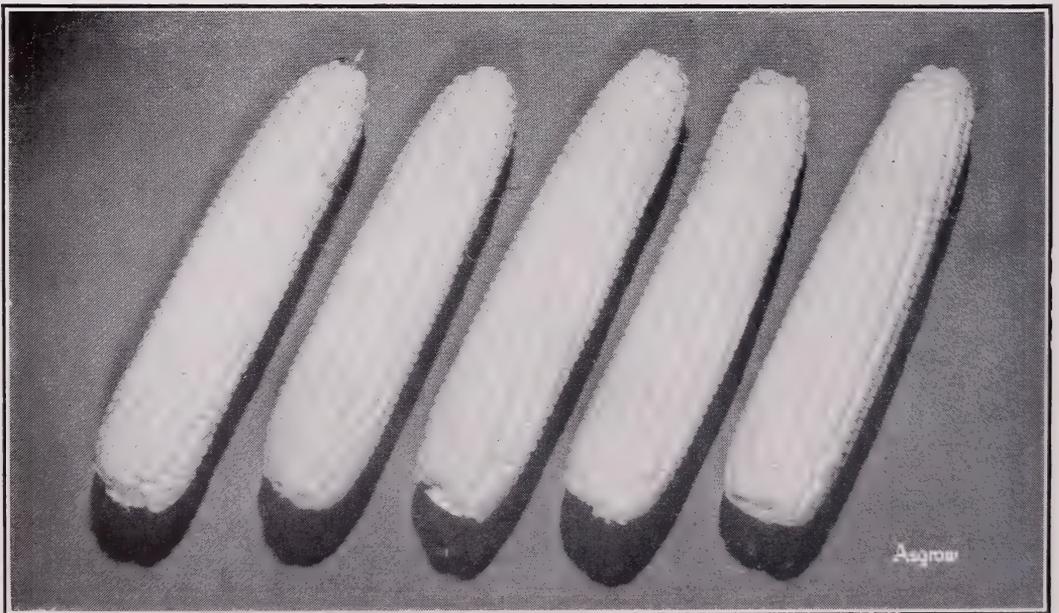
*A hybrid is the first generation of a cross between strains of different parentage and involving one or more inbred lines of corn or their combinations. (Ohio State Law.)*

	Height of stalk feet	Length of ear inches	Days
ALLEGHENY (y) .....	7½	7½	80

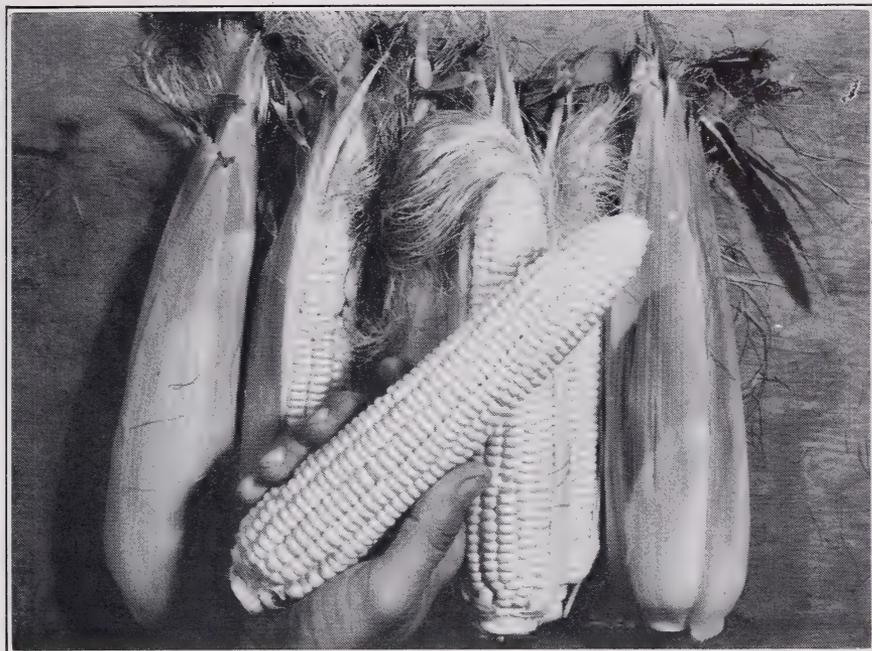
All-America Bronze Medal, 1941. An exclusive Asgrow hybrid variety for home and market gardeners. Tall, vigorous plant, highly resistant to bacterial wilt and a heavy yielder. Ears tapered, mainly 18-22 rowed, well filled to tips with very narrow, long kernels of medium yellow color.

**CORN—Continued**

	Height of stalk feet	Length of ear inches	Days
Carmelcross (y) .....	5½	7	79
<p>A second early variety developed by the Connecticut Experiment Station, New Haven, for market, canning or home garden use. Vigorous and heavy yielding in comparison to its earliness. Medium sized, gently tapering ears, with 12-14 rows of yellow kernels.</p>			
COGENT HYBRID 19 x 24 (w) .....	8	8	94
<p>Another Country Gentleman hybrid of our breeding and exclusive production. Has a somewhat thicker ear and larger kernel type than Shoepeg Hybrid 19 x 9. Well adapted for areas of heavy, rich soil in the Eastern States. Stalk erect, with good foliage, and prolific. Ears long, slightly tapered, well filled at tips.</p>			
COUNTRY GENTLEMAN HYBRID (Ill.) 8 x 6 (w) .....	7	8	99
<p>An extremely drought-resistant variety originated by Prof. W. A. Huelsen of the University of Illinois. Well adapted to the Midwest and especially for the needs of canners. Notable for its high percentage cut-off.</p>			
Country Gentleman Hybrid (Ill.) 5 x 10 (w) .....	7½	7½	98
<p>Also originated by Prof. Huelsen and admirably adapted to Midwestern conditions. A prolific variety, giving high yields except in extreme drought when it is easily outclassed by Hybrid 8 x 6.</p>			
GOLDEN CROSS BANTAM (Golden Cross) (y) .....	6	8	85
<p>Developed by Glenn M. Smith and introduced jointly by the U. S. Department of Agriculture and Purdue University. The result of crossing P39 and P51. Extremely uniform in plant and ear characteristics and in maturity. Highly resistant to bacterial wilt. Now the most extensively used hybrid. Widely adapted to canners' use and excellent for market gardeners. Stalk sturdy and upright. Ears 10-14 rowed, kernels rich yellow in color, medium in width and depth.</p>			



*Golden Cross Bantam: Widely adapted and highly popular*



*Golden Hybrid No. 2439: Especially adapted to the East*

	Height of stalk feet	Length of ear inches	Days
<b>GOLDEN HYBRID No. 2439 (y)</b> .....	7	7¾	87
<p>An exclusive Asgrow development from crossing inbred lines Asgrow 24 x P39. Exceptionally valuable to truckers and canners in the East or in irrigated sections. Plant tall, vigorous, uniform, comparatively free from suckers; leaves wide, dark green and numerous. Ears cylindrical, 12-16 rowed, with long husks affording considerable resistance to ear worm. Kernels lustrous golden yellow, medium-narrow and deep, with tender hull; sweet and of excellent quality. Highly resistant to bacterial wilt.</p> <p>This variety is often spoken of as Bantam Evergreen Hybrid but is quite distinct from any other of that name.</p>			
<b>Ioana (y)</b> .....	6½	8	87
<p>Originated by Iowa State College, commercially developed and entered by us in the All-America Trials for 1939, when it was awarded a Bronze Medal. An attractive variety, highly resistant to wilt. Plants tall and sturdy. Ears 7½"-8" long, 12-14 rowed, cylindrical; well filled with medium-narrow, light yellow kernels. The Asgrow strain of this leading hybrid is distinctive and exceptionally productive.</p>			
<b>Lincoln (y)</b> .....	6	7½	83
<p>Developed by Dr. W. Ralph Singleton, Connecticut Agricultural Experiment Station and awarded the All-America Bronze Medal for 1942. Vigorous, well-foliaged plants; tapering ears well filled to the tips with 12-16 rows of bright yellow kernels.</p>			
<b>MARCROSS (Marcross C13.6)</b> .....	5	7	76
<p>Developed by the Connecticut Experiment Station as a first early market and home-garden variety. Introduced in 1937 and now the most popular early yellow hybrid. Stalks short but sturdy, highly resistant to bacterial wilt. Ears long, plump, abruptly tapered at tips; 10-14 rowed, with light cream-yellow, medium-broad kernels of good quality.</p>			

## CORN—Continued

	Height of stalk feet	Length of ear inches	Days
Narrow Grain Hybrid 14 x 11 (Ill.) (w) .....	8½	7¾	90
A new hybrid variety developed primarily to provide canners with a late white type of heavy yield and high quality in shape and texture of kernels. Stalks tall and strong; ears large and well filled with 18-22 rows of narrow, deep kernels; a very promising variety.			
NARROW GRAIN HYBRID 26 x 15 (w) .....	8	7	98
An exclusive product of Asgrow inbred lines. Very uniform and highly desirable for canning. Stalk sturdy, upright with no suckers; leaves wide, dark green. Ears uniformly tapered with 18-22 rows. Kernels narrow, deep, tender.			
PONTIAC (w) .....	8½	7½	90
An exclusive Asgrow hybrid. High yielding and well adapted to Midwestern as well as Eastern conditions. Stalks strong, with ears relatively free of flag leaves. Ears trim and well filled with 16-20 straight rows of very white kernels, narrow and of good depth.			
Redgreen (w) .....	8	7½	95
Developed by the Connecticut Experiment Station for Eastern growers. Stalk upstanding; foliage reddish green. Ears 12 rowed. Kernels very white and tender, cob small.			
Sachem (y) .....	6	7¾	82
An exclusive Asgrow hybrid, introduced as an early companion to Golden Cross Bantam, and thus affording a longer season of this most desirable type. Plants vigorous and very resistant to bacterial wilt. Ears long, trim and well filled to tips with 10-14 rows of medium-deep, bright orange-yellow kernels. A very attractive variety of excellent eating quality and flavor, well suited to quick freezing.			



Corn plots at the Asgrow midwest station: Franklin, Indiana



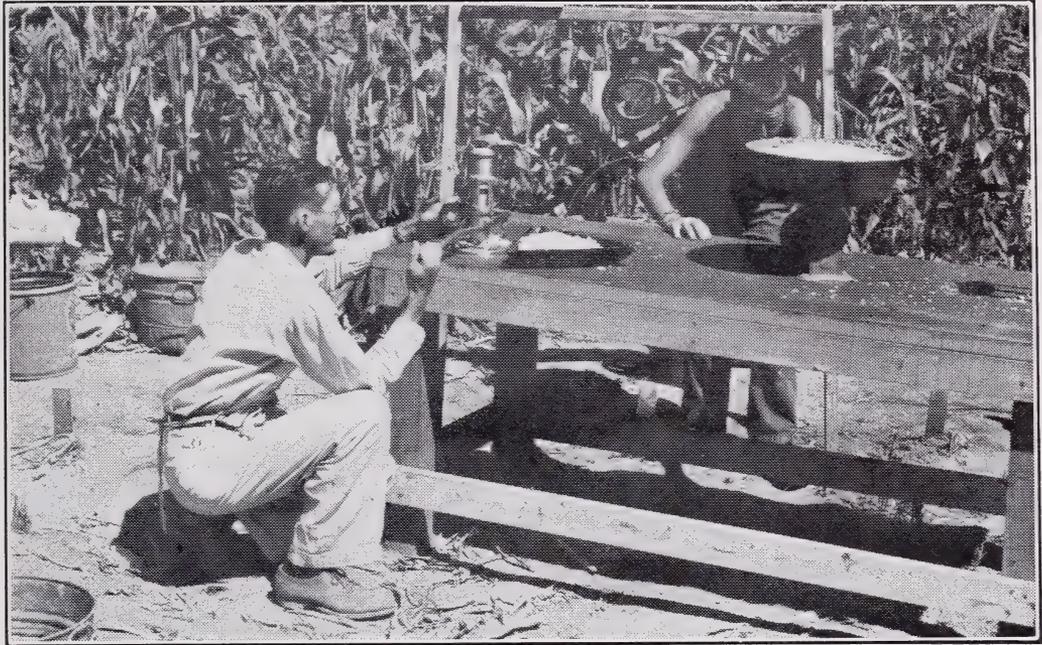
*Top Cross Maine Bantam: An Asgrow hybrid of special adaptation*

	Height of stalk feet	Length of ear inches	Days
SHOEPEG HYBRID 19 x 9 (w) .....	8½	7¾	96
<p>Exclusively an Asgrow production from our own inbred lines. Particularly suitable as a fine-kerneled corn for canners in Eastern areas only. Stalk sturdy, upright with ears 3½-4 ft. from ground. Ears long, cylindrical, well filled at tips. Kernels very fine and deep, tender and of excellent quality.</p>			
Spancross (Spancross C13.4) (y) .....	5½	6½	73
<p>One of the best first early hybrids for the home or market garden. Highly resistant to bacterial wilt. Well tipped small ears of 10-12 rows; kernels golden yellow, sweet, and tender.</p>			
STOWELL'S EVERGREEN HYBRID 14 x 5 (w) .....	8	8	93
<p>Our development from crossing inbred evergreen lines Asgrow 14 x Asgrow 5. All-America Bronze Medal for 1934. Highly valuable to market gardeners and canners, especially in the East. Stalk sturdy with close growing upright ears, 4 ft. from ground; foliage medium green. Ears very slightly tapered, uniform, with 16-18 rows. Kernels white, medium-wide, deep; medium cob.</p>			
Tendergold (Top Cross Sunshine) (y) .....	5½	7½	83
<p>A good variety maturing ahead of Golden Cross Bantam. Stalk sturdy with good foliage; highly resistant to bacterial wilt. Ear nearly cylindrical, 12-16 rowed, kernels medium in width and depth, golden yellow, tender and of good quality.</p>			
TOP CROSS MAINE BANTAM (y) .....	6	7½	83
<p>Our development; has proven highly successful for canners and gardeners in short season areas. Stalk sturdy with deep green foliage; ear slightly shorter than Golden Cross Bantam and somewhat thicker, very slightly tapered with 12-16 rows; kernels medium-narrow and golden yellow, tender and of excellent flavor. Highly resistant to bacterial wilt.</p>			

## OPEN-POLLINATED

	Height of stalk feet	Length of ear inches	Days
Alameda (Early Short Top) (w) .....	5½	7	88
A market-garden variety acclimated to California. Ears 12-16 rowed, well filled at tips, very white and of good quality. Long, close-fitting, dark green husks minimize ear-worm damage.			
BANTAM EVERGREEN (y) .....	8	8	95
Also known as Golden Evergreen. The most important open-pollinated late yellow variety, appearing on the market when most other yellows are overmature. Our development from Golden Bantam x Stowell's Evergreen. Evergreen type of ear with 14-18 rows. Kernels rich golden yellow, deep, with tender hull, sweet, and of fine quality.			
Barden's Wonder Bantam (y) .....	6	7½	85
Somewhat longer ear and slightly taller stalk than regular Golden Bantam. Ears 8 rowed. Kernels broad, tender, and of good flavor.			
Black Mexican (w) .....	6	7½	88
A very old variety. Ears 8 rowed. Kernels tender, exceptionally sweet; white at eating stage, changing to blue-black at maturity.			
CLARK'S EARLY EVERGREEN (w) .....	8½	7½	90
One of the best known canning varieties, also desirable for market gardeners. Originated by Everett B. Clark on our Milford, Connecticut, farms many years ago. Ears 16-20 rowed. Kernels very deep, ivory-white, sweet and tender.			
COUNTRY GENTLEMAN (Shoepog) (w) .....	7	7	95
A prolific variety of excellent quality. Stalk often with two ears. Kernels very deep, slender, sweet, with tender hull, and set irregularly without row formation.			
Early Golden Sweet (y) .....	4½	6½	67
Introduced by Gill Bros. Seed Co. in 1937. Very prolific for so early a variety. Ears 12 rowed, slightly tapering, a little lighter in color than Golden Early Market. Of very good quality.			
EARLY SURPRISE (w) .....	5	7	72
Notable for ear size combined with extreme earliness. Very desirable for the earliest markets. Ears 8-12 rowed, well protected with strong husks. Kernels tender and of good quality.			
GOLDEN BANTAM (y) .....	5½	6½	79
Introduced by W. Atlee Burpee Co. Was long the standard yellow variety. Stalks often have 2 ears. Ears 8 rowed; kernels broad with tender hull, sweet, and of very fine flavor.			
GOLDEN BANTAM, IMPROVED 10-14 ROWED (y) .....	5½	7	82
Our development from Golden Bantam. Ears 10-14 rowed, uniform and attractive. Kernels golden yellow, medium-wide, deep, sweet, and of fine flavor; remain tender longer than regular Golden Bantam.			

	Height of stalk feet	Length of ear inches	Days
Golden Colonel (y) .....	7½	7¼	93
<p>All-America Silver Medal for 1936. The result of our crossing Country Gentleman and Golden Bantam. Similar to Country Gentleman in stalk and ear characteristics except for its golden color. Kernels deep and narrow.</p>			



*Evaluating kernel texture for our annual performance records*

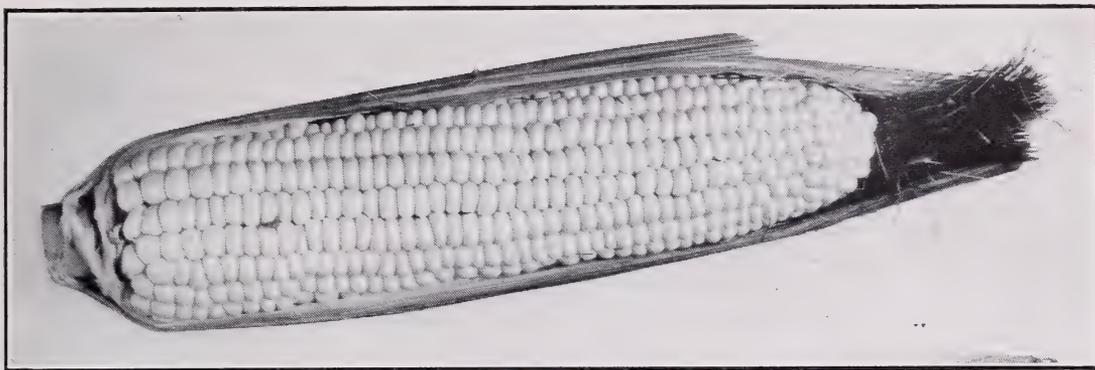
Golden Early Market (y) .....	4½	6½	72
<p>Introduced by Gill Bros. Seed Co. A popular and prolific variety for home and market garden but susceptible to Stewart's wilt. Ears 8-12 rowed. Kernels golden yellow, medium, tender, sweet, and of good flavor.</p>			
Golden Gem (y) .....	4	6	67
<p>Short plants, frequently bearing two ears, 8 rowed, rather small. Kernels deep yellow, tender and sweet.</p>			
Golden Giant (y) .....	7	7½	87
<p>For home and market gardens. Ears rather thick at the butt, 12-16 rowed. Kernels golden yellow; of fair quality.</p>			
Golden Sunshine (y) .....	5½	6½	74
<p>A good early market-garden variety. Ears 10-12 rowed. Kernels medium broad, golden yellow, sweet and tender.</p>			
HONEY JUNE (w) .....	9	8	105
<p>Plant strong, unusually vigorous, productive. Ears large, tapered, 12-18 rowed with tight-fitting, protruding husks; highly resistant to ear worm. Kernels white, medium-deep, sweet. Adapted to Southern growing conditions.</p>			

## CORN—Continued

	Height of stalk feet	Length of ear inches	Days
Howling Mob (w) .....	7	7½	83
A prolific variety for home and market gardens. Ears 12-16 rowed, thick butts, strong husks with green streamers. Kernels clear white, plump and of fair quality.			
Long Island Beauty (Late Mammoth) (w) .....	9	9	98
The largest eared variety of sweet corn. Stalks have coarse leaves; ears very long, thick and tapering, 14-16 rowed. Kernels large, white, of good flavor.			
Oregon Evergreen (w) .....	7½	8	94
Used on the Pacific Coast. Desirable for home and market garden, also for canning; ears medium-thick, 14-18 rowed. Kernels clear white, medium length, sweet, and of good flavor.			
STOWELL'S EVERGREEN (w) .....	8½	8	95
The best known late variety of sweet corn; first grown in 1847 by Nathan Stowell at Burlington, N. J. Used extensively by canners for a standard product; also by home and market gardeners. Stalk sturdy and erect; ears 2½" thick, 16-20 rowed. Kernels clear white, deep, rather broad, sweet and tender: 112 per oz. Holds well in prime condition at eating stage.			
Whipple's Early White (w) .....	6	6½	85
Ears 14-18 rowed, well filled at tips. Kernels deep, medium-narrow, sweet and tender.			
WHIPPLE'S EARLY YELLOW (y) .....	7	7	87
Deservedly popular for home and market gardens. Stalk sturdy and erect; ears 12-14 rowed, strong husks, well filled at tips. Kernels golden yellow, fairly deep, sweet, and of good flavor.			
White Early Market (w) .....	4½	6	73
Stalk often with two ears, 10-12 rowed, with strong husks. Kernels clear white, tender and of good quality.			

## GARDEN CORN FOR ROASTING EARS

Adams, Extra Early Dwarf (w) .....	5½	6	66
Widely used in the South for early planting for roasting ears. Ears 12 rowed; white; reasonably tender and sweet when young. Husks of the Adams series are tight-fitting, limiting ear-worm damage.			
Adams, Early (Ideal) (w) .....	6	7½	72
A hardy variety, resembling Extra Early Adams but larger and later. Ears 12-14 rowed; kernels white, fairly sweet and tender at roasting stage.			
Adams, Large Improved (w) .....	7½	9	74
A large eared, roasting variety, in season slightly earlier than Trucker's Favorite; 12-14 rowed. Kernels white and reasonably tender when young.			
TRUCKER'S FAVORITE (w) .....	7½	9	77
Extensively used in the South for roasting ears; also for shipping; ears 12-16 rowed. Kernels white, fairly tender, and moderately sweet.			



*Stowell's Evergreen: An old variety esteemed for its large, white ears*

## POP CORN

*Zea mays var. everta*

There are three types of pop corn, kernel shape being the determining factor: Pearl, with broad smooth kernels and heavy cob chaff (flower glumes) on tips; Hulless, with shoepeg kernels and very light chaff; and Rice, with pointed kernels and rather heavy chaff.

	Height of stalk feet	Length of ear inches	Days
Giant Yellow (South American Giant: T.N.T.) .....	7½	7	100
A popular late variety. Large ears, 12-16 rowed. The golden yellow kernels of pearl type are large and creamy white when popped.			
Golden Queen (Queen's Golden) .....	7	7	90
Tall, vigorous plant, with long, slim ears having 12-16 rows of smooth, yellow pearl-type kernel.			
Hulless (Japanese) .....	5	3½	85
Ears chunky and without row formation; kernels white, pointed, narrow, pop to large snowy white.			
White Rice .....	6½	6	90
An old standard early variety. Kernels pointed, of translucent appearance; white when popped.			

## CORN SALAD

*Valerianella olitoria*

Sometimes used in spring or winter salads, but mixed with more piquant herbs such as peppergrass, since the leaves are almost tasteless. May also be cooked as spinach.

### Large Leaved

A strong growing, large sort, with rounded leaves of gray-green color.

## CRESSES

### Garden Cress (Peppergrass) *Lepidium sativum*

A hardy, quick growing annual, having finely curled, deep green foliage, with pleasing, pungent flavor; excellent for garnishing.

### Upland (Spring Cress) *Barbarea verna*

Dwarf plant with slender stalks, and oval, notched leaves. Desirable for salads.

### Water Cress *Roripa nasturtium aquaticum*

Perennial aquatic plant, with long stems and small thick leaves with pungent flavor. For salads, and garnishing.

# CUCUMBER

*Cucumis sativus*

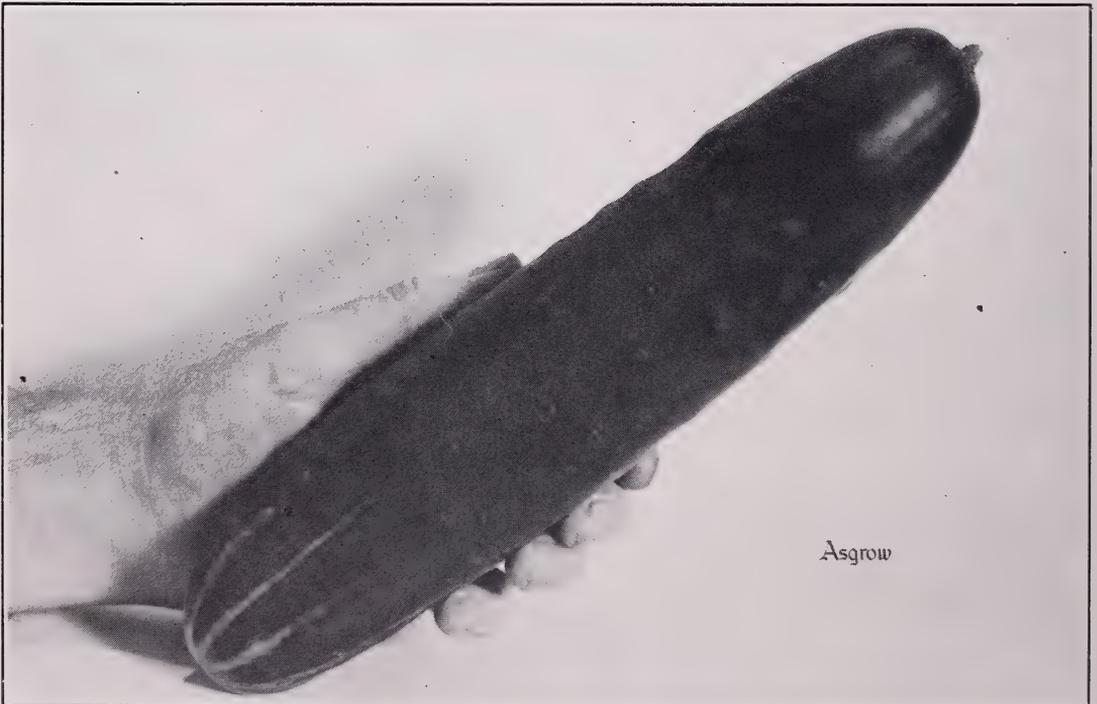
The breeding of new strains and improvement of standard sorts of cucumbers is carried on at breeding stations in Colorado and California. Exceptional care is exercised in the isolation of breeding plots to prevent hybridization.

The number of days indicates the relative time required from planting of seed to first picking of fruits for slicing. The figure should be reduced by several days for small pickles and increased slightly for full grown fruits.

The letters b.s. indicate black spined varieties and w.s. white spined.

The more important varieties are listed in larger letters.

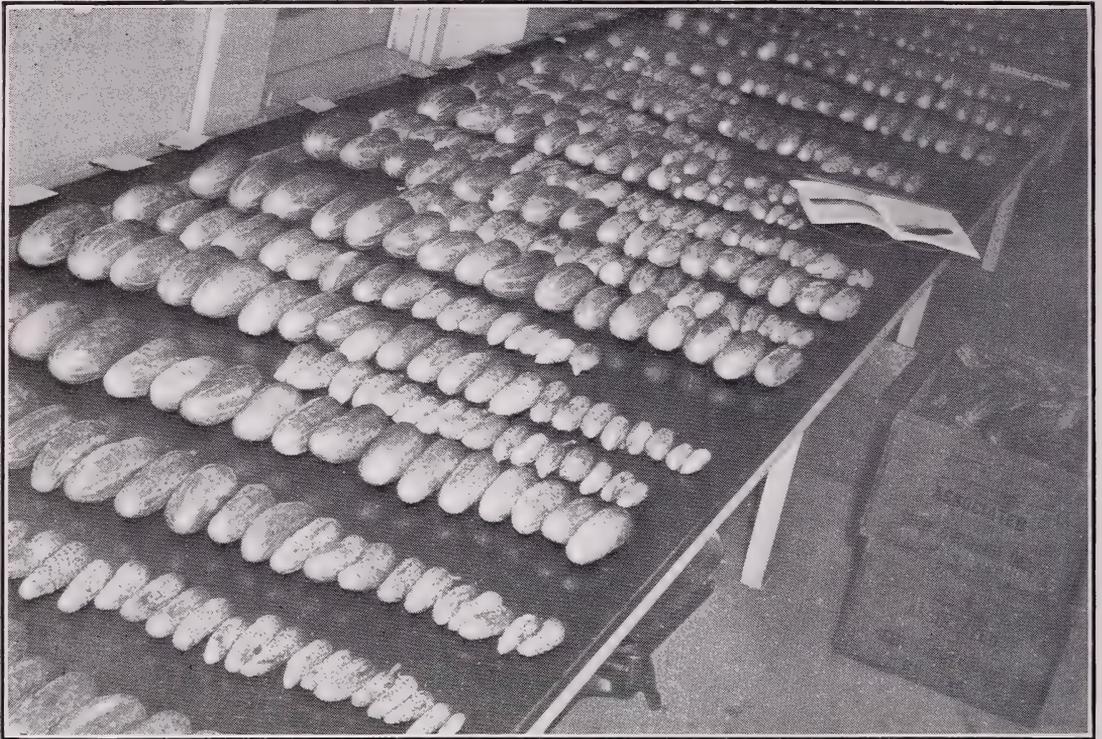
	Length of fruit inches	Diameter of fruit inches	Days
<b>A &amp; C, w.s.</b> .....	8½	2¼	68
Introduced by Abbott & Cobb; a leading variety for shipping and market gardens. Fruits uniform, nearly cylindrical, very dark green, tapering at ends. Attractive in appearance and holds its color well.			
<b>Arlington, w.s.</b> .....	7½	2½	62
An old variety for home gardens. Fruits semi-blunt ended, medium green.			
<b>Boston Pickling, b.s.</b> .....	6	2¼	58
Very early, and prolific; a good pickling variety. Fruits medium green, slightly tapered.			
<b>CHICAGO PICKLING, b.s.</b> .....	6½	2¼	59
A sturdy well known pickling variety. Fruits medium green, nearly square ended; very prolific; well warted and ribbed at pickle size; uniform and attractive; largest of the pickling sorts.			



Asgrow

*Colorado: A very attractive, dark green shipping variety*

	Length of fruit inches	Diameter of fruit inches	Days
CLARK'S SPECIAL, Long Strain, w.s. ....	8½	2½	63
Our introduction. All-America Silver Medal for 1933. An excellent all-purpose variety favored by many shippers and truckers as it holds its color, firmness, and edibility unusually well. Fruits handsome, very dark green color; gently tapered at both ends; flesh crisp, firm, and of superior eating quality; few seeds.			
COLORADO, w.s. ....	8½	2¼	68
Introduced by J. C. Robinson Seed Co. All-America Silver Medal for 1935. A very attractive variety, for market gardens and for shipping. Fruits very dark green, cylindrical, tapering at stem end, with small seed area. One of the choicest varieties at present in cultivation, both for appearance and for slicing texture.			
Davis Perfect, w.s. ....	9	2¼	65
The ancestor of most of the slicing varieties now in general use. Fruits dark green, tapered at both ends; flesh crisp and of good quality.			
Earliest of All, w.s. ....	7	2½	61
Used in the South for first shipments. Fruits slightly but abruptly tapered at both ends; color deep green. Does not hold its color so well as other shipping varieties.			
Early Cluster, b.s. ....	5½	2½	55
Small fruits borne in clusters. Chunky, uniform, medium green; used for pickles.			
Early Fortune, w.s. ....	8½	2½	64
Ours is the originator's strain of this favorite variety which was introduced by Jerome B. Rice Seed Co. in 1910. Desirable for shipping and good for slicing. Fruits dark green, slightly tapering. Flesh firm and crisp.			
Early Russian, b.s. ....	4	2	54
A small, exceptionally early, and prolific pickling variety. Short oval, medium green.			
Gherkin, West India <i>Cucumis anguria</i> .....	2½	1	60
Not a true cucumber. Used for very small pickles. Fruits pale green, covered with prickly spines; oval and uniform.			
Jersey Pickling, b.s. ....	5½	2½	63
A standard pickling variety. Fruits medium green, tapered at both ends; uniform and slender.			
Lemon, b.s. ....	3	2½	65
In appearance resembles a lemon; used for pickles and for salads. Fruits nearly round, rich lemon color; crisp and well flavored.			
Longfellow, w.s. (Vaughan) .....	12	2½	70
Desirable for the home garden, also for shipping; sometimes used for greenhouse forcing. Fruits very dark green, uniform, straight and attractive.			
Long Green, Improved, b.s. ....	11	2½	67
Standard light variety for the home garden; excellent for slicing; hardy and prolific. Fruits deep green, straight, slightly tapered; heavily warted; flesh very white and crisp.			



*A comparative study of pickling varieties at one of the Asgrow stations*

**CUCUMBER—Continued**

MARKETER .....	Length of fruit inches	Diameter of fruit inches	Days
<p><b>MARKETER</b> .....</p> <p>A new Asgrow variety developed at our Eastern breeding station and available for 1943 planting. Vines very vigorous and prolific; fruits slightly tapered to each end, very dark green in color, notably uniform and trim in appearance; an attractive cucumber for the early market.</p>	7¾	2¼	65
<p><b>NATIONAL ASSOCIATION PICKLING, b.s.</b> .....</p> <p>A highly desirable, very extensively used pickling strain developed at the Michigan Agricultural College in collaboration with the National Pickle Packers' Association. Fruits dark green, symmetrical with thick walls; full ended; slightly shorter than Chicago Pickling.</p>	6	2½	56
<p><b>SNOW'S PERFECTION PICKLING, b.s.</b> .....</p> <p>A somewhat smaller sort than Chicago Pickling. Early, prolific, and rightly popular. Fruits deep green, and distinctly square ended, uniform, and attractive.</p>	5½	2¾	56
<p><b>Stays Green, w.s. (Black Diamond)</b> .....</p> <p>Used by Southern shippers. Fruits symmetrical, nearly square ended. Very dark green, holds color and firmness well when shipped long distances.</p>	7	2⅜	60
<p><b>STAYS GREEN, LONG TYPE, w.s.</b> .....</p> <p>A new variety of most desirable type for shippers and market gardeners. Combines the valued deep dark green color of Stays Green with the size and trim, cylindrical shape of Straight-8. In addition is unusually early, prolific and uniform.</p>	8	2¼	58

	Length of fruit inches	Diameter of fruit inches	Days
STRAIGHT-8, w.s. ....	8	2¼	66
Introduced by the Ferry-Morse Seed Co. All-America Gold Medal for 1935. For home and market gardens and shipping. Fruit uniformly cylindrical, rounded at ends, medium green. An attractive variety.			
White Wonder .....	7	2½	90
Grown for its unusual color, which is white at all stages of growth. Fruits weigh up to 2 lbs., produced in clusters; cylindrical with rounded ends.			

## DANDELION

*Taraxacum officinale*

### Arlington Thick Leaved (French Broad Leaved)

The most popular variety; plant rather upright, forms a 20" rosette of large, broad leaves. Leaves are thick and easily blanched. Also known as Improved Thick Leaved.

### Cicoria di Catalogna (Radichetta)

See listing under Chicory, page 36.

## DILL

*Anethum graveolens*

### Long Island Mammoth

Plant 2-2½ ft. high, with leaves cut into thread-like divisions. Seeds very flat; of strong, bitter flavor. Used for flavoring pickles.

## EGG PLANT

*Solanum melongena*

	Height of plant inches	Days
BLACK BEAUTY .....	26	80
A prolific early variety. Medium sized plants. The large globe to oval shaped fruits, 4-6 per plant, are smooth, very dark purple, holding color well after picking.		
Florida High Bush .....	32	85
Plant upstanding, holding fruits off the ground. Fruits elongated, tapering towards stem; dark purple. A hardy variety, resistant to drought and disease.		
Fort Myers Market .....	32	83
Developed for use primarily in the Southeast. Plant tall, carrying the fruits off ground, vigorous and quite resistant to blight and other diseases. Fruits long, oval, with no neck at stem end; color deep black. Produces over a long period.		
Long purple .....	26	78
Fruits 7"-8" long, 2½"-3" thick; dark purple, smooth and attractive; oblong-oval in shape.		
New Hampshire Hybrid .....	18	70
An early market variety developed by Dr. J. R. Hepler, New Hampshire Experiment Station: All-America Silver Medal for 1939. Bred to provide a good crop in short season areas, with fruits round to olive shape. Lower fruits touch the ground.		
New York Improved Spineless .....	30	83
Plant spreading, spineless, bearing 4-5 fruits near or on the soil. The broad, oval, black-purple, glossy fruits are slightly larger than Black Beauty.		

## ENDIVE

*Cichorium endivia*

	Days
Batavian Broad Leaved (Escarolle) .....	74
Plant 16" in diameter; leaves toothed and twisted. Thick ribs form compact heart, which blanches to creamy white.	
FULL HEART (Florida Deep Heart) .....	71
An improved strain with larger leaf, broader, thicker, well-blanched head, earlier in maturity. Of upright growth, with a dense mass of thick, slightly crumpled leaves strongly bunched to give a well blanched heart. Extensively used by market gardeners and shippers.	
Green Curled Pancalier .....	76
A late sort with large, curly, deeply cut leaves. The crowded foliage, dense at the center, readily blanches itself. The midribs are tinged with rose.	
GREEN CURLED RUFFEC .....	76
Plant 16"-18" in diameter, tufty and full in center; midrib white, an inch broad, thick, tender, and fleshy; blanches readily. Good fall variety.	
White Curled .....	73
A very distinct, small sort. Plant 12"-13" in diameter; leaves finely curled, with broad ribs slightly rose tinged. Creamy white at the heart. Handsome in appearance, and of fine flavor.	

## FENNEL

*Foeniculum dulce*

Known by some shippers as anise, though this name is properly applied only to an herb of the parsley family (*Pimpinella anisum*).

For Sweet Fennel, *Foeniculum officinale*, see Herbs, page 101.

### FLORENCE FENNEL (Finocchio)

Plant 30"-36" tall, with broad overlapping stalks something similar to celery stalks but forming a flat-oval, bulb-like enlargement at the base of the stem. This bulb, the "apple," frequently used as celery, is sweet and anise flavored.

## KALE

*Brassica oleracea v. acephala*

	Height of plant inches	Days
DWARF BLUE SCOTCH .....	14	55
Plant has wide-spreading, finely curled blue-green, plume-like leaves. Used as a vegetable, and for ornament. The Asgrow pedigreed strain is exceptionally uniform and handsome.		
DWARF GREEN SCOTCH .....	14	55
A hardy sort, similar in habit of growth and appearance to Dwarf Blue Scotch, except for color, which is bright, deep dark green. The Asgrow pedigreed strain is large and very attractive.		
DWARF SIBERIAN (Sprouts) .....	14	65
Large, hardy and vigorous plant, very spreading. Leaves large, coarse, plain at center, with cut and frilled edges; deep bluish green in color. Largely grown in the South.		
Tall Green Curled Scotch .....	30	60
Hardy plant with leaves deeply cut; curled at the edges, light green in color; very tender after exposure to frosty weather.		



*White Vienna: the popular variety of kohlrabi*

## KOHLRABI

*Brassica oleracea* var. *caulorapa*

- |  |            |
|--|------------|
| Purple Vienna .....  | Days<br>62 |
| Dwarf plant having short green leaves with purple stems and veins. Bulbs globular, purple, with white, tender flesh.   |            |
| WHITE VIENNA .....   | 55         |
| A handsome, early dwarf sort, excellent for home and market garden; used also for forcing. Leaves 8"-10" long, with slender stems. Bulbs 2"-3" in diameter; globular, very light green; flesh clear white, tender and crisp. The most popular variety. |            |

## LEEK

*Allium porrum*

### Giant Musselburg

A hardy variety, with long, medium-thick stem. Leaves broad, deep green.

### LARGE AMERICAN FLAG (London Flag)

An early popular sort. Stems 8"-10" long, 1½" thick; white, and attractive. Leaves large, medium green, drooping backwards.

### Giant Carentan

Large stems, 6"-8" long; 2"-3" thick. Leaves very dark green. Hardy, prolific; for fall and early winter use.

## LETTUCE

### *Lactuca sativa*

Our stocks are bred for productivity, uniformity, and high quality. The number of days represents the time required to develop marketable heads from the planting of seed, under average conditions. However, since the maturity of the New York types varies with weather and growing conditions in the lettuce-producing sections of California and Arizona, the time required to develop heads indicates relative maturity rather than exact period of growth.

The letters b.s. indicate black seeded varieties, and w.s. white seeded.

Varieties listed in larger letters are, in our judgment, the most desirable. The Imperial strains and varieties were developed by the late Ivan C. Jagger and introduced by the U. S. Dept. of Agriculture. They are resistant to brown blight; a destructive soil-borne disease.

Where not otherwise indicated, the following varieties are of the heading or cabbage type.

	Days
Big Boston (Trocadero), w.s. ....	75
A popular butter-head variety for forcing and for outside culture. Head of medium size, and compact, with creamy yellow heart. Leaves smooth, glossy; wavy at the edge, which is slightly tinged with reddish brown.	
Boston Curled, b.s. ....	47
One of the first varieties used in the United States; non-heading, medium green, very curly and crisp. Similar to Grand Rapids, except darker in color. Medium in season, and probably the most fringed of all varieties.	
California Cream Butter, b.s. ....	75
For market gardens. Heads are large, globular, solid, with golden yellow interior. Leaves large, thick, dark green, tinged and spotted with brown; of excellent quality.	
Chicken Lettuce, w.s.	
A hardy, tall growing, non-heading, dark green variety, producing the largest amount of leaves of any lettuce, for poultry and rabbit feed.	
Cosberg, w.s. ....	76
Developed by Dr. R. C. Thompson, U. S. Dept. of Agriculture and released in 1936, from Paris White Cos x Iceberg. A home garden variety with ability to head in summer weather and resist tipburn. Heads small and compact; outer leaves light yellowish green, crumpled and frilled.	
Crisp as Ice (Hartford Bronze Head), b.s. ....	74
A compact, medium sized head, well blanched, and of delicate flavor. Leaves thick and crumpled; deep green with dark brown cast, giving the plant a bronzed appearance.	
Dark Green Cos, w.s. ....	66
A medium large, self-closing sort; leaves very dark green, slightly crumpled.	
GRAND RAPIDS, b.s. ....	43
One of the most popular loose leaved varieties. Excellent for early planting outside, and for greenhouse forcing. Plants erect and compact; leaves light green, broad, wavy, curly, and heavily fringed.	
Grand Rapids (Ohio) Dark Green, b.s. ....	43
A very attractive, new strain, especially good for forcing; differs from Grand Rapids only in its darker color.	

## Great Lakes

Days  
83

A heading variety of the Imperial type developed by the U. S. Dept. of Agriculture and Michigan Experiment Station; available for 1943 plantings. Leaves large and well-folded; ribs heavy. Shows considerable resistance to tipburn and ability to head under adverse conditions. For local markets.

## HANSON (Nonpareil), w.s.

80

An old favorite for home and market gardens; hardy and sure heading. Heads large, globular, compact, tender and sweet; leaves large and broad, and curly, light yellowish green. Good for midsummer planting.

## Iceberg, w.s.

84

Very desirable for home gardens and local markets. A large, late variety with wavy, fringed, light green leaves, tinged at the edges with reddish brown. Resistant to heat. Heads compact, crumpled, crisp and sweet; white interior. Quite different from the shipping variety, New York, which is usually called Iceberg in the produce trade.

## May King, w.s.

63

For earliest outside planting and for greenhouse forcing. Leaves yellowish green; tinged with brown at edges when grown in the open. Heads small, compact, with golden yellow interior, and buttery flavor; of fine quality. Scorches rather easily.

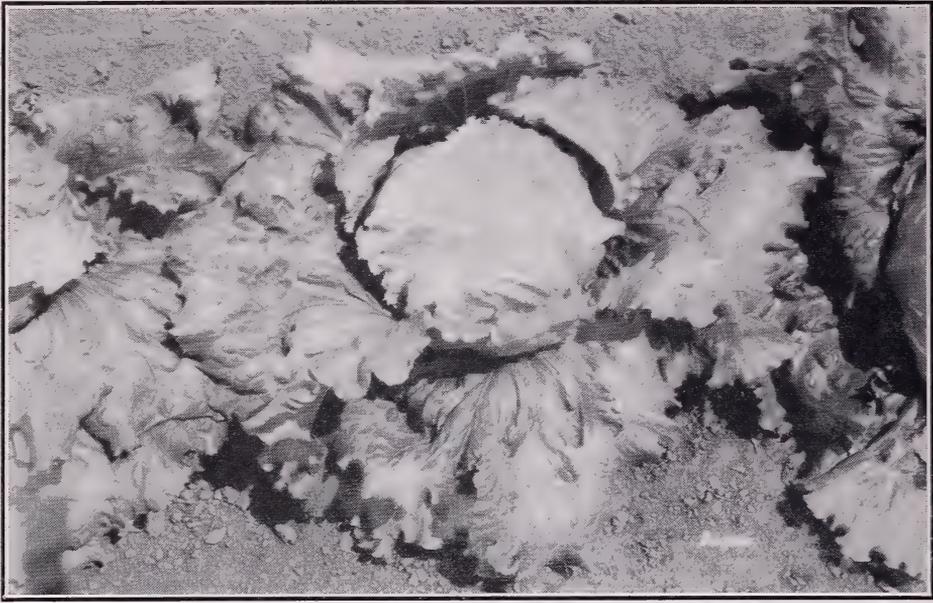
## Mignonette, b.s.

67

Small and compact. Leaves much crumpled, frilled, medium brown with a bronze tinge. Heads round, hard, with well blanched, white heart; of good quality.



*Grand Rapids: Trial rows at our Eastern breeding station*



*Imperial No. 847: Widely adapted and a popular shipping variety*

## LETTUCE—Continued

### New York types; known in the produce trade as Iceberg

	Days
NEW YORK (WONDERFUL, LOS ANGELES), w.s. ....	80
The pioneer of long distance shipping varieties. A large, curled, heading lettuce, with dark green leaves which are slightly curled on the edges. Heads are well blanched, sweet, tender, and of excellent quality.	
New York No. 12, w.s. ....	77
Developed and introduced by Pieters-Wheeler Seed Co. A widely used strain of New York, which stands heat well. Plant and head lighter green than New York, with fewer outer leaves, and several days earlier; large, compact, uniform and attractive.	
NEW YORK No. 199, IMPROVED, w.s. ....	75
An early variety well adapted to summer and early fall production; resistant to tipburn; slightly darker green than Imperial F with more prominent ribs and heavy core. Heads medium large, compact, attractive. Strain No. 199 of this variety is an improvement on the original introduction.	
IMPERIAL No. 44, w.s. ....	82
A development from Imperial No. 152 which was originally developed for California but has also proven to be valuable in the East and Southeast, where it heads better in warm weather and is appreciably less subject to tipburn. Hard, well formed heads, with long leaves. A fine shipping variety.	
Imperial No. 152, w.s. ....	83
Resistant to brown blight, well adapted for early fall planting in California and Arizona, and dependable in heading. Heads medium large, solid, attractive; long, well folded leaves.	

	Days
Imperial No. 456 (Cornell 339) .....	80
Developed by the U. S. Dept. of Agriculture and Cornell Experiment Station as a variety suitable for those in New York State who wish to grow head lettuce in July and August. Of the Imperial type, and said to withstand high temperatures and tipburn better than Imperial No. 44.	
IMPERIAL No. 615, w.s. ....	86
Bred from Imperial No. 152 but somewhat later; resistant to brown blight. Planted for fall, winter and spring harvest in California and Arizona. Heads medium dark green, very large, solid and firm.	
IMPERIAL No. 847, b.s. ....	84
Originally developed as a brown-blight-resistant variety for summer planting in California, has in recent seasons given most satisfactory results in other sections and is now a very important variety. Heads are medium large, hard, fine and well covered by the inner leaves. Stands up well in summer weather, resisting tipburn.	
Imperial No. 850, w.s. ....	85
The white seeded counterpart of No. 847. Heads are very similar in general, though No. 850 has somewhat shorter leaves, more yellow-green in color.	
Imperial D, w.s. ....	83
Similar to Imperial F in being resistant to brown blight and partially resistant to mildew. Good for fall planting in the warmer areas. Heads dark green, large, firm, somewhat coarse, of good quality. Resists frost damage better than most other New York types.	
—————	
PRIZE HEAD, w.s. ....	47
An early non-heading sort, very desirable for home garden use. Plants of medium size, crisp and tender; color light reddish brown on a medium green base; leaves crumpled and highly frilled at the edges; of excellent flavor.	
Simpson's Curled, b.s. ....	46
A popular early loose leaved variety, large and compact, with broad, light green leaves, crumpled and frilled on the edges; crisp and very tender. Used extensively in home and market gardens.	
SIMPSON'S EARLY CURLED (Early Curled Silesia), w.s. ....	45
Probably the most widely used of all varieties for home gardens. Early, hardy, and dependable; loose leaved, with large leaves, somewhat less crumpled and frilled than black-seeded Simpson, forming a compact central bunch; color yellowish green; tender and sweet.	
Wayahead, w.s. ....	63
A first early variety for home gardens. Head small, medium green, with few outer leaves.	
WHITE BOSTON (Ocoee), w.s. ....	76
Similar to white seeded Big Boston, but with leaves slightly lighter green and free from a brown tint; heart buttery, yellow; of excellent quality. Highly desirable for nearby markets.	
WHITE PARIS COS (TRIANON), w.s. ....	66
Widely used for greenhouse planting, as well as by home gardeners and truckers. A medium large self-folding sort, with medium dark green, erect, smooth, concave leaves. Head compact, solid, with greenish white interior; crisp, and of excellent flavor.	



*Fordhook Fancy: one of the popular varieties of mustard*

## MUSTARD

*Brassica juncea*

### Chinese Broad Leaved

Plant medium large, vigorous; leaves broad, large, slightly crumpled, oblong, medium green, scalloped at edges; seed reddish brown.

### Elephant's Ear

Also called New Chinese. A large, vigorous growing sort, with extremely large, deep green, fairly smooth leaves, 9"-10" long, and 6" wide; of mildly pungent flavor; seed reddish brown.

### Florida Broad Leaved

Large, upright growing plant; leaves exceptionally large and thick, bright green; smooth with toothed edges, and pale green midribs. Seed reddish brown.

### FORDHOOK FANCY (OSTRICH PLUME)

A handsome, upright growing, mild variety, slow to bolt seed stalks; leaves bright green, plume-like, and deeply fringed on the edges; seed reddish brown.

### SOUTHERN GIANT CURLED

The best known and most popular sort. Leaves long and wide, light green, tinged with yellow, heavily crumpled and curled at the edges. Seed small, reddish brown. Used widely in the South.

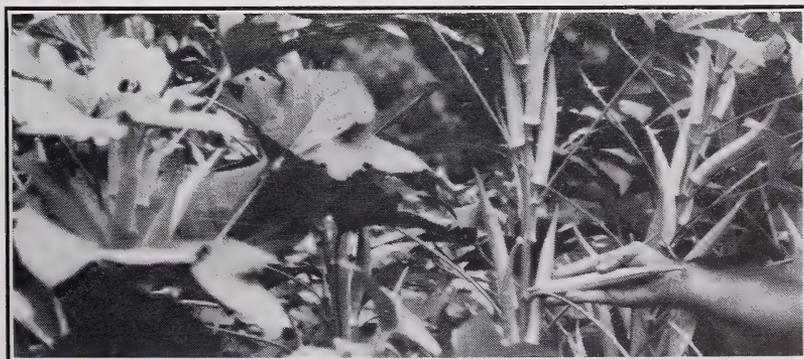
### TENDERGREEN (Mustard Spinach)

A quick growing variety particularly suited to the South. Leaves oblong, thick, fairly smooth, dark green with lighter green ribs; slow to seed, resistant to heat and drought; combines flavors of mustard and spinach.

## OKRA

*Hibiscus esculentus*

	Height of plant feet	Mature pods inches	Days
Clemson Spineless .....	4½	7	55
Developed by the South Carolina Experiment Station. All-America Silver Medal for 1939. A very uniform spineless strain of the Perkins long-prodded type. Plant has less foliage than Perkins; pods rich green, straight, ridged.			
DWARF GREEN EARLY .....	2	7	50
Introduced by H. G. Hastings Co. Dark green, fluted, pointed pods; quite prolific. Adapted by its earliness to more northerly latitudes.			
Louisiana Green Velvet .....			58
A green companion variety to Louisiana White Velvet developed by Dr. J. C. Miller at the Louisiana Experiment Station, suited especially to canners and preservers as the pods retain their color when processed.			
Louisiana White Velvet (Lady Finger) .....	5	6½	58
An improved strain of White Velvet. Plant tall, early and prolific. Pods creamy white, slender, spineless, ribless.			
New Orleans Market .....	3	4	62
Developed at the Louisiana Agricultural Experiment Station. A late sort, very prolific and of good quality. Plant dwarf, dark green, pods dark green, short and round.			
PERKINS' MAMMOTH (Tall Green) .....	5	7	56
Pods bright, deep green, slender, meaty, tapered, and ribbed. A valuable market and canning variety.			
White Lightning .....	5	8	50
All-America Bronze Medal for 1939. An excellent development of White Velvet type for the home or market garden, introduced by H. G. Hastings Co. Long tapering pods, greenish white, round, smooth and entirely spineless, stay tender to larger size than most other varieties.			
White Velvet .....	4½	6	60
Plant early, prolific; pods creamy, sometimes pale greenish white, meaty, tender; smooth, round and pointed.			



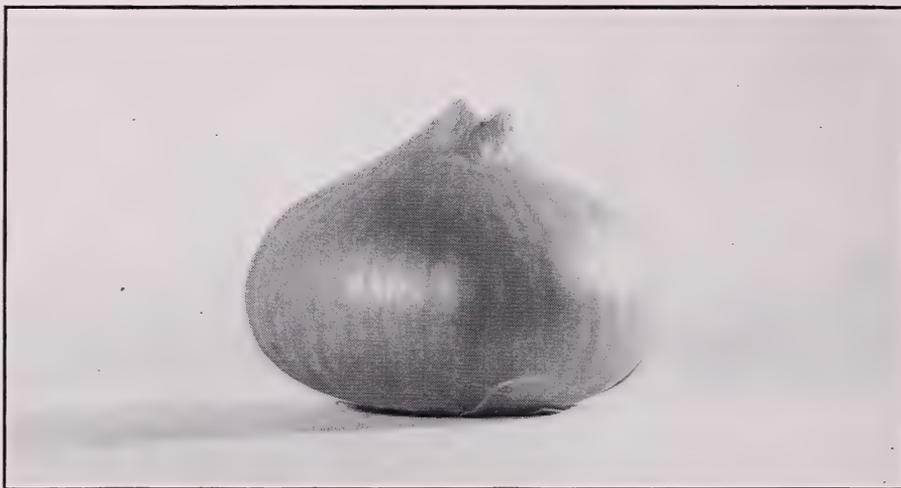
*White Velvet Okra: Extensively grown in the South*

## ONION

*Allium cepa*

For over eighty years we have produced onion seed for the critical trade of America. Outstanding depth of color, tough clinging skins with consequent exceptional keeping quality, and uniformity in trueness to type are factors which make our selected stocks superior. Planting stocks are renewed each year from parent lines produced on our breeding grounds.

The varieties listed in large type are, in our judgment, the most important ones. The number of days indicates the time from planting of seed to maturity of bulbs under mid-west and eastern growing conditions. Length of daylight is also a factor in the time required to form bulbs.



*Ebenezer: A standard variety used largely for sets*

	Days
<b>Australian Brown, No. 5</b> .....	100
The best strain of this standard variety, noted for keeping quality, pure lemon-yellow flesh and chestnut-brown scale color. Bulbs deep-flat or semi-globular in shape; with tough tight-fitting skins; flavor very strong, and flesh cooks rather dark.	
<b>BABOSA (Early Grano)</b> .....	90
An early, relatively non-bolting variety of particular value for fall seeding in Texas and the Pacific Southwest. Bulbs top-shaped, medium large with straw-colored skin; flesh white, mild and of excellent flavor. Highly desirable for early markets.	
<b>BRIGHAM YELLOW GLOBE</b> .....	109
Specially desirable on account of its fine keeping qualities. Bulbs globular with rounded bottom, a deeper, blockier type than Yellow Globe Danvers; solid, well covered with tight-fitting thick skins; foliage dark green; partially resistant to aphids.	
<b>CRYSTAL WAX</b> .....	93
Sometimes called White Bermuda. Grown extensively in Texas for first early shipments to Northern markets. Bulbs very flat, medium sized, clear white; of mild, delicate flavor. The Asgrow strain represents many years of continuous selection.	
<b>EARLY YELLOW GLOBE</b> .....	98
A reliable and deservedly popular variety originally introduced by F. H. Woodruff & Sons; productive and an exceptionally good keeper for so early a variety. Bulbs medium large in size, yellow, with clinging skins, solid, uniform and attractive. Earliness in maturity insures minimum damage from thrips.	

	Days
EBENEZER (Japanese) .....	100
An excellent variety for producing sets of exceptional keeping quality. Bulbs deep-flat, of medium size; dark yellow, very firm, with thick skins. Sets when planted make an early maturing, good keeping onion for market.	
GOLDEN GLOBE (Golden Marvel: Bottle Neck) .....	110
Popular for growing globe-shaped sets of excellent keeping quality; very productive. Bulbs oblong-globe, or bottle neck in shape, rich golden yellow; firm and hard. Also desirable for market or storage.	
Lord Howe Island .....	95
A red Bermuda type, of very deep, attractive color and sweet flavor. Bulb shape similar to Yellow Bermuda but thicker. Color a very deep dark red. For first early market in Pacific coast areas.	
Mountain (Oregon) Danvers .....	110
Particularly notable for its hard bulb with thick skin and excellent storage quality. Bulbs three-quarter-globe shape, slightly flattened at the base, dark yellow; medium early. Productive and of good shipping quality.	
Nebuka (Japanese Bunching) <i>Allium fistulosum</i>	
A bulbless bunching variety, grown for its very long, pure white stems; long standing, tender and of delicate flavor. Resistant to pinkroot, thrips and smut.	
Ohio (Michigan) Yellow Globe .....	110
Popular in onion-growing sections of the Midwest. Bulbs medium large, globular, with somewhat flattened bottom; pure yellow in color with hard, solid flesh; of excellent keeping quality.	
Prizetaker (Denia) .....	105
A popular shipping sort grown extensively in the South. Bulbs large, globe shape; skin thin and glossy, of straw color; flesh coarse but mild. The Asgrow strain is very productive.	
Red Creole .....	115
A desirable, highly productive variety for the South. Bulbs large, semi-globular, reddish in color. Flesh solid, fine grained, of distinct flavor. A good keeper holding well in storage.	
Red Italian (Red Torpedo) .....	100
An early variety for home gardens; popular in Italian communities. Bulbs long, pointed at top and bottom, large, bright red in color. Flesh firm, sweet and of very mild flavor. Very slow in bolting to seed.	
Red Wethersfield .....	100
An old variety of excellent keeping quality. Used extensively for sets, and for storage. Bulbs medium large, flat on the bottom, with sloping top; purplish red; flesh fine grained, firm, white slightly flushed with pink.	
San Joaquin .....	90
Recently developed by the U. S. Dept. of Agriculture and California Experiment Station from a cross of Stockton Yellow Globe (G36) x Early Grano. Bulbs of medium size and semi-globe shape with straw-yellow skin. Highly non-bolting and relatively early. Adapted to first fall plantings in California.	
Southport Red Globe .....	110
The finest of the red onions. Bulbs perfectly round, of good size, with small neck and thick, deep purplish red skin; flesh white, tinged with pink; of strong flavor. Productive, and a good keeper.	

**ONION—Continued**

	Days
<b>SOUTHPORT WHITE GLOBE</b> .....	110
The best of the white varieties. Bulbs round, medium sized, solid, pure white, very attractive; skin thin and delicate; flesh waxy white, fine grained, and mild. Keeps well in fall storage.	
<b>Southport Yellow Globe</b> .....	115
The first strain of Yellow Globe Onion developed in this country was named after Southport, Connecticut, where it originated. Used for storage and shipping. Bulbs round with slight elongation, medium size, solid, rich yellow, skins tough and clinging. Flesh white with creamy tone.	
<b>White Babosa</b> .....	90
A new variety developed at our Pacific Coast breeding station for introduction in 1942. Similar to Babosa except that the shape is somewhat more spherical and the skin color is a clear attractive Silverskin white. Promises to be valuable as an early, non-bolting, white market onion.	
<b>White Barletta (White Pearl)</b> .....	90
An exceptionally early sort, used for pickling and for green bunching. Bulbs small, flat, pure white, of mild, sweet flavor.	
<b>White Lisbon</b>	
Grown almost exclusively as an early bunching onion. At maturity the bulbs are large, thick-flat, with thick neck; clear white in color.	
<b>WHITE PORTUGAL (Silverskin)</b> .....	100
The most widely used white onion. An all-purpose variety, for sets, pickling, green bunching, and storage. Bulbs medium sized, thick-flat, clear white, hard, fine grained, and of pleasing flavor. A dependable cropper.	
<b>WHITE QUEEN</b> .....	90
Valuable for early market and pickling, sometimes used for bunching and for pickles. Bulbs small, flat, clear white, firm and mild.	
<b>WHITE SWEET SPANISH</b> .....	110
The largest of the white onions. Bulbs globular with small neck, pure white; flesh clear white, firm and mild. Very attractive, and a fair keeper.	
<b>White Welsh <i>Allium fistulosum</i></b>	
Used exclusively for green bunching, as it forms no bulbs. A hardy perennial, which develops white shoots for the market in advance of those from sets; tender, and of delicate flavor.	
<b>YELLOW BERMUDA</b> .....	93
A medium sized, flat sort for early market. Skin light straw color, thin and loose; flesh nearly white, sweet and mild. The dual name arises from lack of positive color. Grown extensively in Texas and Southern California for early shipments to Northern markets.	
<b>YELLOW GLOBE DANVERS</b> .....	110
A popular strain of Yellow Globe. Hardy and a good cropper; used largely for storage. Bulbs medium large, round, yellow, firm, solid with small neck. Flesh white, with slight yellow tone.	
<b>YELLOW SWEET SPANISH</b> .....	110
An increasingly popular large yellow variety of Spanish origin, similar to Prizetaker, but larger. Globular, with golden yellow skin; flesh white, mild, very sweet and of pleasing flavor, desirable for shipping and fall storage. We are producing leading strains of this important item.	

**ONION SETS**

Our onion sets are produced in the best set-growing sections, from our own pure-bred seed. Careful cleaning, sizing, and packaging at time of shipment, make for arrival in customers' hands in prime condition. Asgrow sets are second to none in quality and attractiveness. The varieties include: White, Yellow, Red, Ebenezer, Golden Globe, etc.

## PARSLEY

*Petroselinum hortense*

	Days
MOSS CURLED (Triple Curled) .....	70
A compact plant with dark bright green leaves, exceedingly finely cut and curled, giving the appearance of a dense piece of moss. Very desirable for garnishing, and for decorative purposes.	
Paramount .....	85
A recent introduction of triple curled type. Plant slow growing, very dark green, tall and with stout stems for bunching.	
Plain (Single) .....	72
Used largely for flavoring. Leaves bright green, deeply cut, flat, not curled; stem small, solid, without purple coloration, edible.	
Rooted Hamburg, <i>Petroselinum hortense</i> var. <i>radicosum</i> .....	90
Forms thick, fleshy, edible roots, 8"-10" long, used for flavoring, like celery or celeriac. Leaves plain, deeply cut; stems hollow, tinged with purple; coarse and tough.	



*Parsley plots at our Milpitas, California, breeding station*

## PARSNIP

*Pastinaca sativa*

ALL-AMERICAN .....	95
A new and very good variety; the roots are large and broad-shouldered, of medium length, fine texture, white color, and with small core; very free from side rootlets.	
HOLLOW CROWN (Guernsey) .....	95
Most commonly used of all varieties. Root 10"-12" long, 2½"-3" diameter at shoulder; hollow crowned, uniformly tapered.	
Short Thick .....	75
A very early variety with medium top. Root 6"-8" long, 2½"-3" in diameter at shoulder; full crowned, slightly rounded at top; flesh tender and sweet.	



Spring scene at the Asgrow pea-breeding station, Hamilton, Montana

## PEAS

*Pisum sativum*

By breeding pedigreed stocks through generations of pure-line cultures, we are continually improving existing leading varieties of peas. This intensive process, supported by careful inspection and checking of field crops, produces exceptionally high grade stocks. In addition to maintaining standard varieties, new strains are developed by means of hybridization and selection, which enables us to combine desirable plant characters such as disease resistance, productiveness, and quality of two or more parents in new and more useful introductions.

Since the time from planting to first picking varies widely in different seasons and in different sections, we have indicated in the column of days, average results under normal rainfall conditions in the North. These figures will be of assistance in comparing the relative earliness or lateness of the various varieties when planted in any locality.

Varieties listed in larger letters are, in our judgment, the newer and more important. Smooth seeded sorts are commonly handled on the basis of 120 lb. to the bag and wrinkled varieties 112 lb.

### Smooth-Seeded

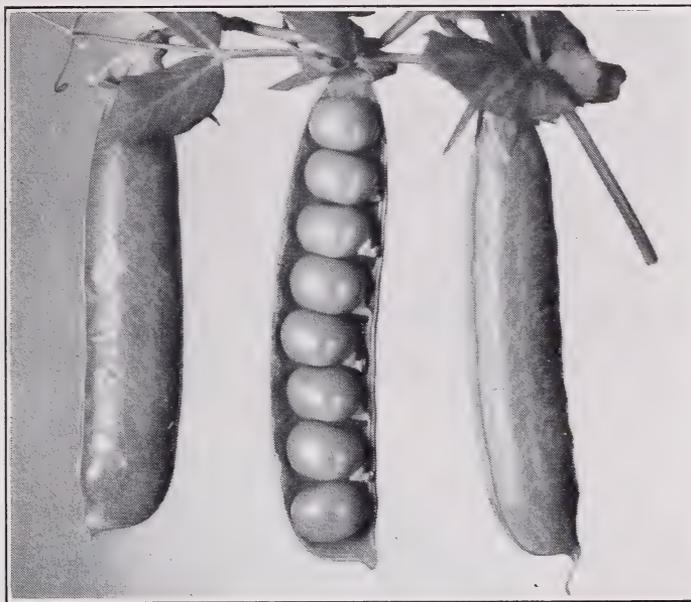
	Height of plant inches	Length of pod inches	Days
<b>ALASKA</b> .....	28	25/8	57

The Asgrow strain—the first progeny line, pedigreed stock of this variety ever developed—is noted for its pod size and productivity. Fully resistant to Fusarium wilt. Used very extensively for canning; also by gardeners for a first early variety. Plant slender, light green, very uniform in maturing. Pods single, blunt, light green, round, straight, contain 6-8 peas of good quality. Seed small, round, smooth, bluish green: 130 per oz.

	Height of plant inches	Length of pod inches	Days
Alaska HF 30 .....	35	2 $\frac{7}{8}$	60
Developed from a rogue found in a crop of Alaska. Plant more vigorous but less uniform than regular Alaska and about two days later to picking. Pods are similar but in general a little larger.			
Bountiful (Ameer: Claudit) .....	30	3	60
Sometimes called Large Podded Alaska. Popular in some sections with market gardeners for early planting; resistant to Fusarium wilt. Plant medium green. Pods single, somewhat curved, pointed, medium green, contain 7-8 peas of only fair quality. Seed medium, round, dimpled, bluish green: 125 per oz.			
Canada Field .....	48	2 $\frac{1}{4}$	85
A commercial sort for field culture, resistant to Fusarium wilt. Plant very tall, medium green. Pods single, blunt, light green; contain 6 peas. Seed small, smooth, creamy white.			
Carter's Eight Weeks (Radio) .....	12	2 $\frac{1}{4}$	54
The earliest sort in common use. Plant very dwarf, slender. Pods single and double, pointed, dark green, slightly curved, contain 7-9 peas of good quality when picked young. Seed small, gray-green, dimpled.			
LAXTON'S SUPERB (Early Bird, Improved Laxtonian) .....	16	4	61
The earliest large podded, dwarf sort. Plant light green, coarse. Pods single and double, curved, pointed, medium green, attractive; contain 9-10 peas of fair quality. Seed dark green, dimpled: 90 per oz.			
Mammoth Podded Extra Early .....	30	3	60
For home and market gardens. Plant medium heavy, deep green, productive. Pods light to medium green, broad, round, blunt; taper slightly from blossom to stem end; contain 6-7 peas of fair quality. Seed round, dimpled, cream colored.			
Marrowfat, White .....	60	3 $\frac{1}{4}$	80
A commercial sort, grown extensively for dry use; resistant to Fusarium wilt. Plant dark green. Pods single and double, plump, blunt, straight, light green; contain 6-7 peas of poor quality. Seed large, round, creamy white. Very productive.			
Pedigree Extra Early (First and Best: John L.) .....	30	3	58
Developed and introduced by Calvin N. Keeney. A hardy sort that can be planted very early. Plant light, resistant to Fusarium wilt. Pods single, light green, blunt, plump, contain 6-7 peas of fair quality. Seed round, dimpled, creamy white.			
Willett's Wonder (Ivy's Special: Frostproof) .....	26	2 $\frac{1}{2}$	60
A hardy variety for earliest planting. Of Georgia origin and in favor there. Resembles Pedigree Extra Early but has smaller pods and is said to be more resistant to cold.			
Winner .....	24	2	60
Developed and introduced by Rogers Bros. Seed Co. A canning variety, used where small sizes are desired. Plant light. Pods single, narrow, light green, blunt, straight; contain 6-7 peas. Seed small, deeply dimpled, light green.			

## Wrinkled-Seeded

	Height of plant inches	Length of pod inches	Days
<b>ALDERMAN (Dark-Podded Telephone)</b> .....	60	4½	74
A handsome large podded variety. Excellent for home garden, for truckers, for shipping to distant markets and for freezing; resistant to Fusarium wilt. Plant dark green, coarse. Pods single, large, plump, straight, dark green, pointed; contain 8-10 peas of highest quality. Seed large, light green: 90 per oz.			
<b>American Wonder</b> .....	12	2½	61
For the home garden, and very productive. Plant dark green, fairly coarse. Pods single and double, light green, blunt, straight, and well filled with 6 peas. Seed medium sized, largely square; green.			
<b>CANNER KING</b> .....	34	3½	67
A recent Asgrow development. A main canning variety resistant to Fusarium wilt. Plant similar to Perfection but with more open habit of growth; color medium green. Pods slightly curved, single and double, medium green, blunt, contain 7-9 peas of very high canning quality. Seed green, of medium size: 100 per oz.			
<b>Champion of England</b> .....	50	3	80
A well-known standard late variety for home gardens. Plant medium green, coarse. Pods single and double, light green, blunt, straight, plump; contain 7-8 peas of fair quality. Seed large, light green: 120 per oz.			
<b>Climax</b> .....	36	2¾	66
A prolific sort for second early canning. Plant of Admiral type, medium green and slender. Resistant to Fusarium wilt. Pods single and double, light, blunt; contain 6-7 peas. Seed small, green: 140 per oz.			
<b>Dwarf Alderman</b> .....	28	4½	76
For market gardens and shipping. Plant dark green, stocky, branching, resistant to Fusarium wilt. Pods single and double, dark green, plump, pointed, slightly curved; contain 7-9 large peas of good quality. Seed large, green: 90 per oz.			
<b>Dwarf Telephone (Daisy)</b> .....	24	4½	76
A productive variety for home gardens, truckers and shipping; resistant to Fusarium wilt. Plant light green, stocky and branching. Pods single and double, medium light green, lightly curved, broad, pointed and attractive; contain 8-10 peas of excellent quality. Seed large, green with bluish cast: 80 per oz.			
<b>EARLY HARVEST</b> .....	32	2¾	60
Our development, resistant to Fusarium wilt. An early sweet, wrinkled, canning type showing more vigor than either Surprise or Wisconsin Early Sweet. Plant slender, medium green. Pods single, light green, plump, blunt; contain 6-8 peas having tender skins and excellent flavor. Seed small, green: 140 per oz.			
<b>Everbearing</b> .....	28	3	76
A long bearing variety for the home and market garden; resistant to Fusarium wilt. Plant dark green, thick, coarse, and branching. Pods double, light green, plump, blunt, straight; contain 4-5 large peas of sweet marrowy flavor. Seed very large, light green, flat. Yorkshire Hero is similar.			



*Glacier*: An early, wilt-resistant Thomas Laxton type

	Height of plant inches	Length of pod inches	Days
Gilbo .....	25	4¾	72
A very good general-purpose variety, resistant to Fusarium wilt. Plant heavy, dark green. Pods round, dark green, pointed, contain 8-9 large peas of good quality. Seed green, large.			
Glacier .....	32	3¾	60
A new Asgrow variety recently developed at our Montana pea-breeding station to meet the need for a variety somewhat earlier than Thomas Laxton but of the same general type and fully resistant to Fusarium wilt. The plants are dark green and medium heavy. Pods single, dark green, blunt ended, plump and well filled with 7-8 deep green, semi-round peas of excellent quality. Seed large, cream and green: 100 per oz.			
Gradus .....	35	3½	60
For home and market gardeners. Plant medium green, stocky. Pods single, broad, pointed, medium green; contain 6-8 large, sweet peas. Seed large, cream and green: 100 per oz.			
Green Admiral .....	36	2¾	70
Developed and introduced by Rogers Bros. Seed Co. A dependable cropping variety for canners. Resistant to Fusarium wilt. Plant dark green, slender. Pods single, blunt, straight, plump and well filled, medium green; contain 6-8 medium small, uniform peas. Seed small, very green: 170 per oz.			
Hundredfold .....	20	4⅛	64
An attractive, large podded sort, for home gardens, for truckers and for shipping. Plant dark green, stout. Pods single, broad, very deep green, pointed, curved; contain 8 large peas of excellent quality. Seed large, wrinkled, yellow and green, somewhat flat: 100 per oz.			
Improved Gradus .....	38	3¾	63
A very desirable variety in the second early class. Plant medium green; pods single, plump, pointed, dark green; with 7-9 large peas of fine quality. Seed cream and green: 100 per oz.			

## PEAS—Continued

	Height of plant inches	Length of pod inches	Days
Laxtonian .....	18	4 $\frac{1}{4}$	63
For home gardens, truckers, and shipping. Plant dark green. Pods single, broad, dark green, slightly curved, pointed; contain 7-8 large, succulent peas. Seed large, flattish, yellow and green.			
LAXTON'S PROGRESS .....	16	4 $\frac{1}{2}$	62
Developed by Laxton Bros. and introduced in 1922. The largest podded and most attractive of the Laxtonian family. Popular for shipping to distant markets, also for home and market garden planting. Plant medium dark green. Pods single, $\frac{7}{8}$ " wide, dark green, somewhat curved, pointed, handsome; contain 7-9 large peas of good quality. Seed large, cream with green: 85 per oz. Our strain of this important variety is noted for its solid deep green color.			
LITTLE MARVEL .....	18	3	64
Outstanding among the older varieties of dwarf peas, Little Marvel continues to be extensively used on account of exceptional quality and yield. Valuable for home garden and for early shipping. Plant dark green, medium, stocky. Pods single and double, dark green, blunt, plump, well filled with 7-8 tender peas. Seed medium size, light green, squarish: 110 per oz.			
Major .....	40	3 $\frac{3}{4}$	72
Recently developed at our pea-breeding station, this new variety combines the best qualities of Perfection and Profusion. Resistant to Fusarium wilt. Plant stocky, of open growing habit, medium green. Pods mostly double and well concentrated, medium green, nearly straight, blunt, well filled with 6-7 large bright green peas of excellent quality. Seed large, mainly green: 93 per oz.			
Morse's Market .....	24	4 $\frac{1}{4}$	70
For market gardens and shipping. Plant medium green, sturdy, somewhat coarse. Pods dark green, single, plump, curved, pointed; contain 7-9 peas. Seed large, cream with green.			



*Pride: A recent Asgrow introduction, wilt resistant and prolific*

	Height of plant inches	Length of pod inches	Days
Multifold .....	24	4 $\frac{3}{8}$	66
A new Asgrow variety of large Hundredfold type, developed at our pea-breeding station for shipping, quick freezing and general use. Resistant to Fusarium wilt. Plant dark green, strong and prolific. Pods single and double, broad, dark green, pointed and slightly curved. Seed large, green.			
Nott's Excelsior .....	16	2 $\frac{3}{4}$	62
Similar to American Wonder. One of the older varieties now mainly used in the packet trade. Plant dark green, slender. Pods single, blunt, round, plump, light green; well filled with 6-7 medium sized, tender peas. Seed square, light green: 134 per oz.			
NUMBER 40 .....	28	5	74
Resembles Stratagem, but 4-5 days earlier; exceptional in quality; resistant to Fusarium wilt. Adapted particularly for shippers and market gardeners. Plant dark green, stocky and branching. Pods single and double, round, dark green, plump, pointed, curved at tip; contain 8-10 large, succulent peas. Seed large, green: 90 per oz.			
Onward .....	26	3 $\frac{3}{4}$	70
Plant medium light green, with heavy stem and foliage. Of excellent quality and strong productivity. Pods single and double, $\frac{3}{4}$ " wide, medium green, blunt, straight, attractive; contain 6-8 large, tender peas. Seed large, green.			
PERFECTION .....	30	3 $\frac{1}{4}$	70
An important main canning variety, resistant to Fusarium wilt; concentrated in pod development and very productive. The Asgrow strain is known particularly for its uniform, large, attractive pods. Plant medium green, stocky. Pods double, medium green, blunt, slightly curved; contain 7-9 peas. Seed green, of medium size: 130 per oz.			
Premium Gem, Improved .....	22	2 $\frac{3}{4}$	64
Resistant to Fusarium wilt. Used for home gardens and by some canners. Plant dark green, medium, productive. Pods single and double, light green, round, straight, blunt; contain 6-7 peas of good quality. Seed green, medium sized: 120 per oz.			
President Wilson .....	20	4 $\frac{1}{2}$	65
For home and market gardens, and for shipping. Plant very dark green, stocky, with large leaves. Very attractive. Pods single, broad, plump, pointed, slightly curved, rich deep green; contain 8-9 large succulent peas. Seed large, green.			
PRIDE .....	30	3 $\frac{1}{2}$	65
Developed at the Asgrow pea-breeding station in Montana and introduced in 1936. A hybrid variety, exceptionally productive. Resistant to Fusarium wilt; excellent for canning, similar in color and texture to Perfection. Plant dark green, open at top, sturdy, very uniform, quite resistant to aphids. Pods mainly double, straight, plump, dark green, well filled with 7-9 peas; highly concentrated in season. Seed medium, green; 120 per oz.			
Prince of Wales .....	40	3 $\frac{1}{2}$	75
A desirable sort for canning large sized garden-run peas; also good for home garden use; resistant to Fusarium wilt. Plant medium green, coarse. Pods single and double, light green, blunt; contain 4-6 large peas. Seed large, cream and green; a light cropper: 95 per oz.			

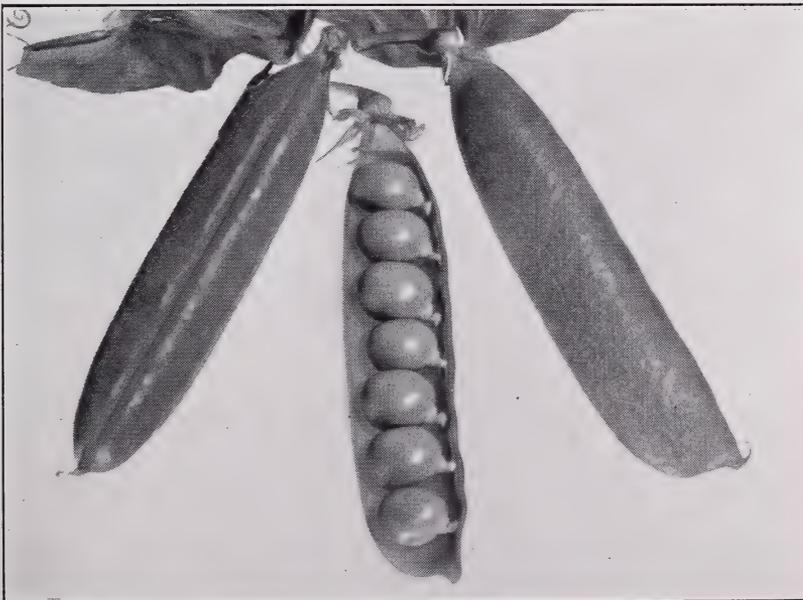


*Evaluation of pea varieties for the annual records of our pea-breeding station*

## PEAS—Continued

	Height of plant inches	Length of pod inches	Days
Profusion .....	42	3 $\frac{1}{4}$	76
For home garden and canning; resistant to Fusarium wilt. Plant medium green, with stout stem. Pods single and paired, light green, plump, straight, blunt; contain 5-6 large, oblong peas of good quality. Seed large, cream and green: 88 per oz.			
Resistant Surprise .....	28	2 $\frac{5}{8}$	57
Developed at the Asgrow pea-breeding station to provide a variety with the desirable canning qualities of Surprise, plus resistance to Fusarium wilt. The new variety is somewhat more prolific, but plant and pod type are, in general, identical with Surprise.			
Rice's Early Dwarf (Sutton's Excelsior) .....	18	3 $\frac{1}{4}$	63
For the home garden. Plant medium green, stocky. Pods single, light green, broad, blunt, straight; contain 6-8 medium large peas of good quality. Seed large, flat, light green: 100 per oz.			
Shasta .....	28	3 $\frac{3}{4}$	70
A new variety developed at the Asgrow pea-breeding station to meet the need for a late-maturing Thomas Laxton type. Plants medium green and sturdy; resistant to Fusarium wilt. Pods dark green, a little larger than Thomas Laxton and of similar shape, borne mainly in pairs. Peas deep green, of excellent quality and highly suitable for freezing. Seed large, green: 100 per oz.			
STRATAGEM, IMPROVED .....	28	4 $\frac{1}{2}$	79
A superior late variety for home and market garden, for shipping to distant markets, and for freezing. Resistant to Fusarium wilt. Plant deep green, stocky and branching. Pods single and paired, $\frac{7}{8}$ " wide, nearly round, straight, pointed, dark green; contain 8-10 tender, succulent peas. Seed large, green: 95 per oz.			

	Height of plant inches	Length of pod inches	Days
Surprise .....	28	25/8	58
<p>A popular early canning sort of first quality. Plant medium green, slender. Pods single, light green, plump, blunt; contain 6-8 peas. Seed small, green. This variety excels in tenderness of skin and sweetness of flavor.</p>			
<p>Telephone: see Alderman.</p>			
TETON .....	34	33/4	67
<p>Developed at our Montana station: All-America Silver Medal for 1937. A hybrid variety fully resistant to Fusarium wilt. Excellent for market gardens, shipping, canning and freezing. Plant dark green, medium heavy. Pods single, large, straight, blunt, dark green, concentrated in season; well filled with 7-8 large, succulent peas of very fine quality. Seed large, cream and green: 105 per oz.</p>			
THOMAS LAXTON, DARK PODDED .....	36	31/2	62
<p>Original light colored strain introduced by Laxton Bros. in 1898. The Asgrow improved dark podded strain retains the earliness of the first introduction but is more attractive in both plant and pod. Excellent for home and market gardens and for shipping, canning and freezing. Plant deep green and medium heavy. Pods single, rich deep green, plump, broad, blunt; contain 7-8 large, tender peas of splendid quality. Seed of medium size, cream and green; 100 per oz.</p>			
WORLD'S RECORD .....	30	31/2	57
<p>Of Gradus type, but earlier, and very uniform in maturing. Excellent for home garden and first early markets. Plant light green, medium heavy. Pods single, medium green, pointed, broad, plump; contain 7-8 large tender peas of good quality. The Asgrow strain is noted for earliness and size of pod. Seed large, cream and green: 100 per oz.</p>			



*Dark-podded Thomas Laxton: A notable Asgrow strain*

## Edible Podded or Sugar Peas

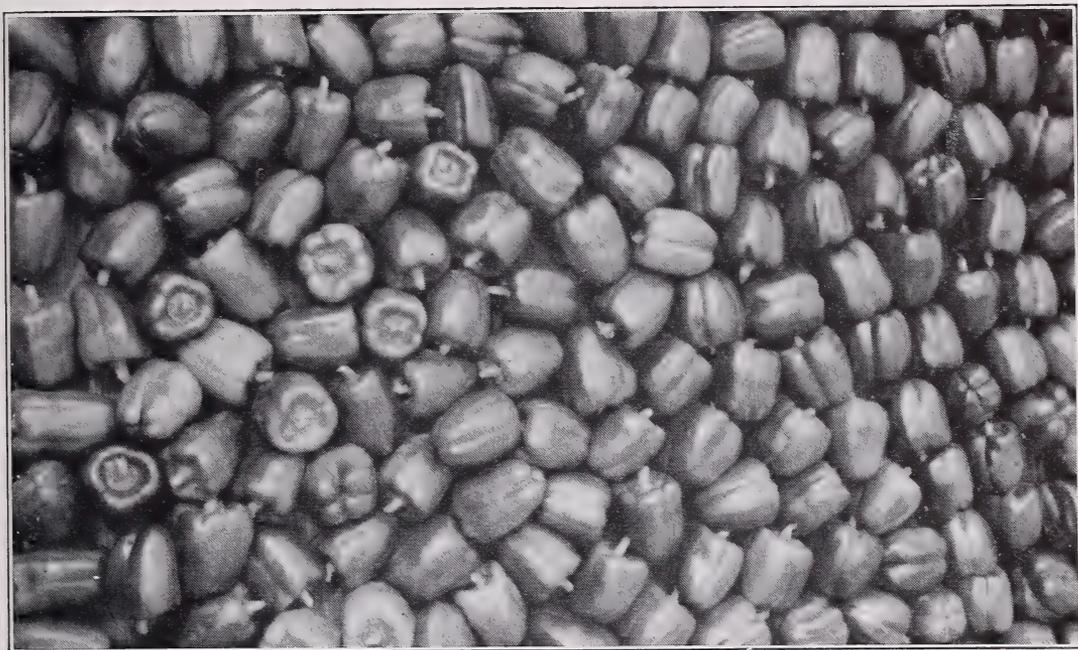
*Pisum sativum saccharatum*

	Height of plant inches	Length of pod inches	Days
Dwarf Gray Sugar .....	28	3	65
A prolific variety for home garden; resistant to Fusarium wilt. Plant slender and wiry with purple blossoms. Pods double, light green, heavily curved, semi-pointed, strongly indented between the peas. Seed small, mottled, gray, round: 230 per oz.			
Dwarf White Sugar .....	26	2¾	65
Plant slender, medium green, with white blossoms. Pods single and double, much constricted, mostly straight, semi-pointed, light green. Seed small, round, smooth, creamy white.			
MAMMOTH MELTING SUGAR .....	54	5	74
The best of the edible podded sorts for home and market garden use; resistant to Fusarium wilt. Plant light green, coarse. Pods single, very broad, indented, light, blunt; brittle, fleshy, stringless, free from fiber, of good quality; contain about 7 peas. Seed large, round, creamy white; 100 per oz.			
Mammoth Luscious Sugar .....	54	4½	74
For home and market garden; resistant to Fusarium wilt. Plant light green, coarse. Pods single, 7/8" broad, light green, blunt, straight, indented; contain about 8 peas. Seed round, gray.			

## For Southern Growers

The following varieties of the species *Vigna sinensis* might more properly be grouped with beans but are commonly known in the South as Table Peas, as distinguished from Garden or English Peas.

Black-Eye, Large .....	40	7	47
A standard main crop variety with tall, strong, prolific plants. Pods large, long and easily shelled. Green peas large and attractive; reach full maturity about 15 days later and have good keeping qualities as dried peas.			
Brown (Sugar) Crowder .....	28	7	45
An early edible podded variety used also for green shelled peas for canning and for dried peas. Plant dark green, thick-stemmed and branching. Pods round, plump, blunt, medium green, filled with brownish peas crowded tightly together. Seed smooth, buff-brown with darker brown eye. Used also as a forage crop and for soil improvement. Through breeding work at our Southern station, the Asgrow strain has been made suitable for shelling in viner equipment. The hulls are thicker and do not fit too tightly around the seeds.			
Cream Crowder .....	28	7	45
Quite similar to Brown Crowder and used in various ways. Plant vigorous, dark green, with tendrils at top. Pods round, blunt, medium green, contain light green peas closely crowded together. Seed smooth, medium, cream with buff eye.			
Cream Lady .....	26	8	43
A very good variety of this group for table use. Plant stocky, dark green, branching. Pods oval, medium green, straight, blunt, closely filled with light green tender peas. Seed small, smooth, ivory white.			



*A run-of-the-field picking of Calwonder Early*

## PEPPER

*Capsicum frutescens*

Development of new varieties and the improvement of standard sorts is carried on at our Eastern breeding station, Milford, Conn. Our pedigreed stocks are noted for earliness in maturity and thickness of flesh. The seasonal relationship among varieties is shown by average reading of maturity dates, the column of Days indicating relative time from setting-out of plants to picking.

	Length inches	Diameter at stem inches	Days
Anaheim Chili .....	7	1	80
An all-purpose hot variety, planted mainly in the South and in California. Long, smooth, tapering, deep green fruits, changing to bright scarlet at maturity.			
Bell (Bull Nose) .....	3	2¾	64
A popular, early, prolific sort, with medium, erect plant. Fruits pendent, blunt, largely 4-lobed, deep green changing to scarlet red at maturity. This is not the hot strain formerly grown.			
CALIFORNIA WONDER, IMPROVED .....	4½	3¾	75
For market garden and shipping. Plant vigorous, upright, prolific. Fruits mostly 4-lobed, upright, slightly longer than standard strains; very attractive, smooth, uniform and deep green, changing to bright crimson; flesh very thick, sweet and mild.			
CALWONDER, EARLY .....	4	3½	69
An Asgrow early strain of California Wonder maturing a week to ten days earlier than others. Plant stocky and sturdy, vigorous, prolific. Fruits 3- and 4-lobed, upright, very attractive. Smooth, uniform, deep green changing to bright crimson at maturity; thick, sweet and mild. Particularly desirable in areas of shorter season. Packs well because of its uniformity.			

## PEPPER—Continued

	Length inches	Diameter at stem inches	Days
Chinese Giant .....	4½	4½	80
An extremely large, sweet pepper for home and market garden use. Plant short, stocky, and light green. Fruits pendent, chunky, square ended, and slightly crumpled; deep green changing to deep scarlet.			
Floral Gem .....	3½	1½	75
The Asgrow strain of this variety has been developed at our Pacific Coast breeding station for more robust plants and larger fruits. The bush is taller than regular Floral Gem, the fruits run about 3½" long by 1½" at shoulder. Of value to Southwestern canners and pickle makers.			
Golden Queen .....	4	3½	78
A large yellow variety, of sweet and mild flavor, resembling Ruby King in shape and size. Fruits 3-lobed, pendent, tapered, deep green, becoming attractive yellow.			
Harris' Early Giant .....	4¾	3½	63
An excellent early sweet variety for home and market garden use. Plant dwarf, upright, very productive. Fruits pendent, gently tapered, 3-lobed, of mild flavor; deep green changing to bright red. Resembles a large Bull Nose in shape.			
Hungarian Yellow Wax .....	6	1¼	65
A first early, hot sort, valuable for market gardeners and canners. Plant dwarf and prolific. Fruits pendent, medium slender, tapering, smooth and very pungent. Color waxy yellow changing to bright crimson at maturity.			
King of the North .....	5	3	64
An early strain of Ruby King, introduced by Joseph Harris Co. in 1934, especially for shorter season areas. Prolific plants, somewhat smaller than regular Ruby King, though fruits are of good size and quality.			



*Two plants of Paprika, a relatively recent introduction from Europe*

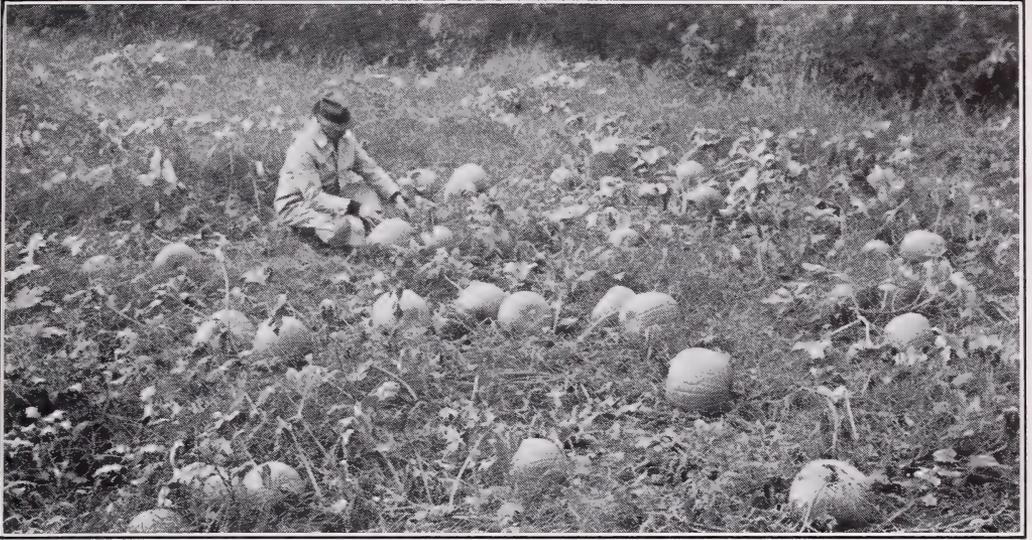
	Length inches	Diameter at stem inches	Days
Long Red Cayenne .....	6	1	70
The Asgrow strain of this favorite hot pepper is notably more substantial, averaging an inch in diameter at the shoulder or somewhat larger, and borne plentifully.			
Long Red Cayenne, Original type .....	5	5/8	70
Used largely for canning, and in sauces, pickles, etc. Plant large and productive. Fruits tapering, pendent, frequently twisted; very pungent; deep green changing to brilliant red.			
Neapolitan .....	4	2	60
A very early, medium large, prolific variety. Fruits upright in growth, 3-lobed; yellowish green, becoming bright red; flesh extremely mild and sweet.			
Oshkosh .....	4½	3½	70
A medium early productive sort, deep glossy green in color turning to canary yellow at maturity. Fruits mild, fairly smooth, broad at base tapering to blunt point.			
Ozark Giant (Memphis Giant) .....	4½	4½	80
A large and heavy yielding Southern strain of the Giant type. Fruits similar in shape to Chinese Giant but smoother, mostly 4-lobed and of large size but medium weight.			
Paprika .....	4½	1½	70
Long grown in Europe, a new item in the U. S. A. Plant of medium size, very prolific. Fruits long, tapered, deep red at maturity, flavor sweet with slight pungency in ribs and seeds.			
PIMENTO (Perfection) .....	3½	2½	73
Primarily a canning variety; good also for home and market garden planting. Plant large, erect, prolific. Fruits heart-shaped, pendent, very smooth; color dark green, changing to bright crimson, flesh exceptionally thick, sweet and mild.			
Red Cherry .....	1	1	82
Popular for use in pickles. Plants vigorous, upright, prolific. Fruits round, smooth, solid, very pungent; color deep green changing to deep scarlet.			
Red Chili .....	1¾	½	82
Plant of low spreading growth, 18" tall, very productive. Fruits erect, conical, extremely pungent; color light to medium green, changing to deep red; used in making pepper sauce.			
Ruby Giant .....	5	3½	75
Of Georgia origin, for home and market gardens. Plant vigorous, erect, very productive. Fruits slightly tapered, 4-lobed, deep green changing to bright red; flesh thick, sweet and mild.			
RUBY KING .....	5¼	3½	68
Our early pedigreed strain bred for size and uniformity. All-America Bronze Medal for 1935. Plants medium sized, erect and productive. Fruits borne off ground, exceptional in breadth at base and in length; 3-lobed, tapered, smooth; dark green, turning to bright deep red at maturity. Flesh comparatively thick, sweet and mild. Particularly desirable for early markets.			

## PEPPER—Continued

	Diameter		Days
	Length inches	at stem inches	
Sunnybrook .....	2½	2¾	73
A home garden sort of excellent flavor. Plant vigorous and very productive. Fruits tomato-shaped, smooth; color deep green turning to deep red; flesh thick and mild.			
Tabasco .....	1	¾	95
A late, hot variety, used in pickles and pepper sauce. Plants large and spreading. Fruits small, tapering, smooth; color greenish yellow, turning to scarlet-red.			
Tomato (Squash) .....	1½	2¾	80
A novelty for home gardens. Plant medium, upright, moderately productive. Fruits tomato-shaped, of green color, changing to bright red; flesh thick, sweet and mild. The Asgrow strain is deep fruited and smooth.			
Sweet Cheese is a similar variety but with larger, ridged fruits.			
Windsor-A .....	4½	2¼	57
Developed by Dr. L. C. Curtis of the Connecticut Experiment Station. All-America Silver Medal for 1937. A first early type for home and market gardens. Plant of medium height, sturdy and very prolific. Fruits mostly 3-lobed; furrowed, pendent, medium green, of Ruby King type but with somewhat thicker flesh.			
WORLD BEATER .....	5	3¾	70
A valuable large variety for market gardens and shippers, from a cross of Chinese Giant and Ruby King. Plants vigorous, upright, and very productive. Fruits 4-lobed, smooth; color glossy green changing to bright red; flesh thick, mild, and			



*World Beater: The Asgrow strain has been selected for longer, uniform fruits*



*Connecticut Field: A planting at the Asgrow Eastern breeding station*

## PUMPKIN

*Cucurbita* spp.

	Length inches	Diam- eter inches	Days
<b>CONNECTICUT FIELD</b> <i>C. pepo</i> .....	12	14	118
Extensively grown for making pies, for canning, and for stock feed; usually planted in corn fields. Fruits large, partly globe shaped; 15-20 lb. Surface hard, smooth, somewhat ribbed; deep orange in color; flesh thick, orange-yellow, coarse and sweet.			
<b>Japanese Pie</b> <i>C. moschata</i> .....	12	8	110
Resembles the Cushaws in shape, but is earlier and larger. Skin dark green, with lighter green stripes. Flesh deep yellow, and of good quality. Weight 12 lb. Seeds have markings resembling Japanese characters. Valuable for canning and stock feed.			
<b>KENTUCKY FIELD</b> <i>C. pepo</i> .....	10	13	120
A heavy yielding variety widely used for canning, and for stock feed, particularly through the South. Fruits large, slightly ribbed, not fixed in shape, some being flat, others globular and elongated; 10-15 lb.; color dull orange; flesh deep yellow, coarse, and of good flavor.			
<b>King of the Mammoths</b> <i>C. maxima</i> .....	22	18	120
This name, commonly listed under Pumpkin, is a synonym for Mammoth Chili squash (page 86).			
<b>LARGE CHEESE</b> <i>C. moschata</i> .....	6	12	108
Our pedigreed strain, exceptionally early and uniform, is particularly valuable to market gardeners and canners. Fruits very flat, 10 lb.; slightly ribbed, cream colored; flesh very thick, orange-yellow and of fine quality.			

## PUMPKIN—Continued

	Length inches	Diam- eter inches	Days
SMALL SUGAR (New England Pie) <i>C. pepo</i> .....	8	10	108
The best variety for general use. Of small handy size, but tonnage equals others. Fruits round, flattened at ends, 6-8 lb.; skin hard, smooth, somewhat ribbed, deep orange; flesh thick, sweet and dry, of bright orange color and high quality.			
Striped Cushaw (Canada Crookneck) <i>C. moschata</i> .....	18	10	112
Fruits crooknecked, 14-16 lb.; skin hard, thin, smooth, dull white with irregular green stripes; flesh thick, yellow, medium coarse.			
Tennessee Sweet Potato <i>C. moschata</i> .....	14	10	110
A popular variety in the South. Fruits pear-shaped, with good keeping quality, 12-15 lb.; skin creamy white with faint light green stripes; flesh yellow and of sweet potato flavor.			
White Cushaw <i>C. moschata</i> .....	18	7	110
Smaller, and with shorter, straighter neck than other Cushaw types. Exterior color nearly white.			
Winter Luxury <i>C. pepo</i> .....	7	9	100
Resembles Small Sugar in shape but is somewhat larger. Fruits round, somewhat flattened at ends, 7-9 lb.; skin thin, netted, orange-yellow; flesh thick, firm, exceptionally sweet, and of fine flavor for pies.			
Yellow (Golden) Cushaw <i>C. moschata</i> .....	20	9	112
Fruits crooknecked, medium large, 15-20 lb. Skin golden yellow, smooth, hard; flesh thick, yellow, dry and sweet.			



*Small Sugar: Very popular for pumpkin pie*

## RADISH

*Raphanus sativus*

Proven seed stocks produced each year from carefully selected and transplanted roots are the basis of our field plantings of the principal varieties. Northern grown radish leads in quality and Asgrow stocks, bred for the critical market garden trade and reproduced in well isolated fields, are second to none.

	Days
Bi-Color .....	23
Resembles Sparkler but with smaller top and white bottom extending to middle of root; upper part of root bright scarlet; nearly round, of medium size. Flesh white, tender and sweet.	
Black Long Spanish .....	58
A good keeping winter variety. Roots cylindrical, slightly tapered at tips, 7"-10" long, 2"-2½" in diameter; skin black and somewhat wrinkled; flesh white, solid and pungent.	
Black Round Spanish .....	56
A winter sort with round roots, somewhat top-shaped, 3"-4" in diameter; skin black, with cracked longitudinal lines; flesh white, crisp, and of strong flavor; an excellent keeper.	
Brightest Long Scarlet (Cardinal) .....	26
The earliest of the long red varieties, excellent for home and market garden use, and for forcing. Roots 4"-4½" long, tapering, crisp and tender; vivid scarlet with white tip.	
California Mammoth White .....	60
An excellent fall variety. Roots 7"-8" long, 2" thick; cylindrical, and thickest at lower end; leaves large, light green; flesh white, crisp and not pungent.	
Cavalier .....	23
An attractive variety of short topped Scarlet Globe type; primarily for forcing in greenhouse or frame. Tops about 1" shorter than standard Scarlet Globe; roots uniform, olive-shaped, deep scarlet. Holds well before going pithy.	
Chartier (Long Rose) .....	35
A very attractive sort, with roots 7"-8" long and 1" thick; bright rose color on the upper part, shading to white at the tip; flesh white and crisp. Several days later than other long red varieties.	
Chinese Rose Winter (Scarlet China) .....	52
A popular, very distinct winter sort. Roots 4"-6" long, 2" in diameter, cylindrical, but thicker at the lower end; blunt, smooth, bright rose-red in color; flesh white, very firm and pungent.	
Chinese White Winter (Celestial) .....	60
Roots large, 8" long; 2½"-3" in diameter, cylindrical, with heavy shoulder; flesh white, crisp, rather mild in flavor.	
Cincinnati Market (Glass) .....	28
An improved strain of Long Scarlet with small, short top, for home gardens and truckers. Roots 6"-7" long, cylindrical, with tapering end, deep red; flesh very white, crisp, mild and tender.	
CRIMSON GIANT .....	28
A favorite variety for home gardens and for truckers. Roots large, globular, 1"-1½" in diameter, deep crimson in color. The white flesh hold its firmness well, and is of superior quality.	

## RADISH—Continued

	Days
EARLY SCARLET GLOBE, RICE'S (Medium Top) .....	24
Our pedigreed originator's stock of this very popular variety is outstandingly good, and well adapted to both field culture and greenhouse forcing. Roots olive-shaped, with medium top; bright scarlet, crisp, tender, and of fine quality.	
EARLY SCARLET GLOBE (Medium Top) .....	23
Similar to the foregoing except that tops are of deeper green and roots are globe-shaped, bright red color and tops bright green. The Asgrow strain is exceptionally uniform and attractive.	
EARLY SCARLET GLOBE (Short Top) .....	23
A very neat variety bred especially for the use of shippers and market growers. The roots are bright red and spherical, similar to those of Early Scarlet Globe, Medium Top, but the tops are shorter, yet strong enough to bunch well.	



*Early Scarlet Globe, Medium Top: Bunches neatly for market*

Early Scarlet Turnip .....	26
An early variety with small top, well adapted to field culture and to forcing. Roots round, slightly flattened, with small tap root; 1" in diameter, dark scarlet-red; flesh pinkish white, crisp and tender.	
Early Scarlet Turnip, White Tipped .....	26
An attractive sort, extensively used by truckers, and in home gardens. Roots nearly round, with small tap root; carmine-red, with small white tip; flesh white, crisp and mild. Ready when 1" in diameter.	
French Breakfast .....	25
An early market and home garden sort, with small top. Develops best under glass. Roots oblong, thicker toward the bottom, dull scarlet with white tip; 1½" long, ½"-¾" thick; flesh white and crisp. Becomes pithy unless pulled at first maturity.	
LONG SCARLET, SHORT TOP .....	27
A standard sort for home gardens and for truckers. Roots smooth, uniform, 5"-6" long, tapering, with white crisp flesh; color dark scarlet; tops small.	

	Days
Philadelphia White Box .....	28
<p>A medium early, white variety for forcing or outside culture. Roots round, slightly top-shaped, 1<math>\frac{3}{8}</math>" in diameter; flesh white, very crisp, fine grained and tender.</p>	
Saxa .....	22
<p>Principally a forcing sort, but also used for out-of-doors planting. Tops very small. Roots small, spherical, <math>\frac{7}{8}</math>" in diameter, bright scarlet in color; flesh white, crisp and mild.</p>	
SPARKLER .....	26
<p>Similar to Scarlet Turnip White Tipped, but with larger white area. Popular with market gardeners. Roots round, smooth, dull scarlet-red, one-third white at bottom; flesh white, crisp and tender.</p>	
WHITE ICICLE .....	27
<p>An outstandingly popular variety for home and market gardens. Roots 5"-5<math>\frac{1}{2}</math>" long, slender; tapering at the tips, very white; flesh clear white, brittle, and of mild, inviting flavor.</p>	
White Strasburg .....	39
<p>Popular with market gardeners in the East for summer use. Roots about 5" long, 1<math>\frac{1}{2}</math>" thick at the shoulder, tapering and smooth. Skin and flesh white, crisp and slightly pungent. Continues in marketable condition longer than most varieties.</p>	
White Turnip .....	25
<p>The earliest white variety, desirable for forcing or field culture. Roots small, turnip-shaped, with small top, clear white throughout, brittle and tender.</p>	

## RHUBARB

*Rheum rhaponticum*

### Linneaus

A second early, standard variety with thick, long stalks of fine flavor.

### Victoria

A main crop sort, vigorous in growth, with upstanding, thick red stalks.

## SALSIFY (Vegetable Oyster)

*Tragopogon porrifolius*

### Mammoth Sandwich Island

The most usually cultivated variety; hardy, slow growing, requires all season and is better if frosted. Roots 8"-9" long, 1 $\frac{1}{2}$ "-2" thick, tapering, smooth, dull white.

## SORREL

*Rumex acetosa*

French Broad Leaved .....	60
<p>Leaves large, oblong, medium green, of slightly acid flavor.</p>	
Narrow Leaved (Silver leaf) .....	60
<p>The variety generally used by home and market gardeners for spring salads. Long, slender, attractive, bright green leaves, with bitter-sweet flavor.</p>	

## SPINACH

*Spinacia oleracea*

Spinach seed was commonly grown in the Netherlands of Europe where conditions are well suited to its production, but for some years past Asgrow spinach seed crops of the finest quality have been grown in the Northwest.

The time from planting to cutting of marketable plants varies considerably with the season of the year in which sowings are made. The column of Days applies to spring plantings in the Northern States.

Varieties marked s.s. are smooth seeded; those marked p.s. are prickly seeded.

	Days
<b>BLOOMSDALE, EXTRA DARK GREEN, s.s.</b> .....	40
A special strain of Bloomsdale Reselected, distinguished by its very deep color and therefore esteemed by long-distance shippers as it retains a fresh appearance at market.	
<b>BLOOMSDALE SAVOY, LONG STANDING, s.s.</b> .....	42
Only a few days later than other Bloomsdales, it holds 12-14 days longer before throwing seed stalks. Plant large, very uniform, erect and sturdy, with very attractive, highly crumpled and blistered dark green leaves. Exceptionally valuable for home and market gardens, and for shipping from the South.	
Aristocrat is a selection from Long Standing.	
<b>Bloomsdale Savoy, Reselected, s.s.</b> .....	39
A first early, vigorous variety. Plant fast growing, uniform, hardy and attractive. Leaves large, oval-shaped, curved, heavily savoyed, dark glossy green. Bolts rather quickly.	
<b>GIANT NOBEL (Giant Thick Leaved: Matador), s.s.</b> .....	45
Introduced by Zwaan & Van der Molen: All-America Silver Medal for 1933. Very valuable for market gardens and canning. Plant large, vigorous, and spreading; slow to form seed stalks, and an extremely heavy yielder. Leaves very large, thick, smooth, pointed, with rounded tip; medium green, tender. The best of the smooth thick-leaved sorts.	



*Giant Nobel: Productive, thick leaved and well flavored*



*Bloomsdale Savoy, Long Standing: A favorite variety*

HOLLANDIA (Giant Prickly Winter: Dark Green), p.s. ....	43
<p>More attractive and productive than the old Prickly Winter, it is highly desirable for market gardeners and canners. The leaves are large, broad, arrow-shaped, and dark green. Used extensively in California.</p>	
KING OF DENMARK, s.s. ....	46
<p>An exceptionally long standing sort, highly desirable for canning, and for market gardens. The large, spreading plants carry broad, rounded, very dark green leaves, which are somewhat crumpled. Excellent for spring planting as seed stalks are slow in forming.</p>	
New Zealand, p.s. <i>Tetragonia expansa</i> .....	70
<p>Not a true spinach, though similar when cooked. Native of New Zealand, quite distinct in habit of growth; thrives in hot, dry weather. The large, spreading plants have small, thick, pointed, deep green leaves, which can be picked repeatedly throughout the season. Seeds are large and hard-horned; should be steeped, and planted only in warm soil.</p>	
Old Dominion, s.s. ....	40
<p>A popular variety in Texas, resistant to mosaic and of long standing character. Plant similar to the Savoy but leaves somewhat more pointed.</p>	
Perpetual Spinach	
<p>See Swiss Chard, Common Green, page 22.</p>	
Viking, s.s. ....	45
<p>Introduced by Sluis en Groot: All-America Silver Medal for 1935. A darker leaved selection from Nobel. Excellent for market gardens and canning. Plant large, spreading, vigorous, long standing and heavily productive. Leaves very large, thick, medium dark green.</p> <p>Heavy Pack is a good strain of Viking. Plants are strong and vigorous, with large medium green, slightly crumpled, thick leaves on short stalks. Color intermediate between Nobel and King of Denmark.</p>	
VIRGINIA SAVOY (Blight Resistant), s.s. ....	39
<p>Bred at the Virginia Experiment Station for mosaic resistance. Upstanding, vigorous plants; seeding rather early; highly desirable for planting in infested soil. Leaves somewhat smoother than other strains of Savoy.</p>	
Viroflay, s.s. ....	45
<p>An old, extremely large, mid-season, vigorous growing variety, with long, broad, pointed, thick, smooth leaves of deep green color. Adapted to fall and winter planting in California.</p> <p>Tempo is an improved Viroflay: hardy, darker, heavier yielding and a week earlier.</p>	



*Long Cocozelle: An early, prolific Italian marrow*

## SQUASH

*Cucurbita spp.*

Of all the vegetables, squashes exhibit the greatest range in plant and fruit characters and hybridize most readily under average field conditions. Consequently they are given special care and attention at our breeding stations in Colorado, California and Connecticut. Pedigreed lines are established by controlled pollination. Increase blocks are grown in fields well isolated from any kindred variety.

The column of Days indicates the relative time from planting of seed to marketable fruits. The measurements apply to fully grown fruits.

### Bush or Summer Varieties

*C. pepo*

	Length inches	Diam- eter inches	Days
Cocozelle, Black .....	20	4	64
An attractive Asgrow strain. Plants of open growth, with deep cut leaves allowing adequate air movement to prevent fruits from rotting. Fruits similar in shape and general character to Long Cocozelle but with deep blackish green exterior; smooth and uniform; much more attractive in appearance by reason of the absence of stripes; very prolific.			
COCOZELLE, LONG .....	20	4½	65
Of Italian marrow type, increasingly popular with market gardeners and shippers. Fruits are cylindrical, straight, smooth, dark green with lighter green stripes which change to deep yellow at maturity; flesh very firm, greenish white; a very early, prolific variety.			
Cocozelle, Short .....	12	5	63
A well known variety of Italian origin. Fruits weigh 3-4 lb.; cylindrical, smooth, dark green, with lighter green, changing to golden stripes; flesh greenish white, and of fine flavor.			

	Length inches	Diam- eter inches	Days
<b>EARLY PROLIFIC STRAIGHTNECK</b> .....	14	3½	50
Introduced by Ferry-Morse Seed Co. All-America Silver Medal for 1938. An attractive, productive strain of Giant Straight-neck; though the fruits are somewhat smaller, they are earlier and of bright lemon-yellow color.			
<b>EARLY YELLOW SUMMER CROOKNECK</b> .....	10	4	52
An extensively used summer sort. Plants very prolific. Fruits curved at neck, light yellow at early eating stage, and covered with warts, 3 lb.			
English Vegetable Marrow .....	15	4½	56
A prolific summer variety. Fruits 4-5 lb.; cylindrical but somewhat larger at blossom end; pale greenish exterior, lighter colored interior. A long vining strain of this variety is also available.			
Giant Summer Crookneck .....	20	4½	58
Similar to Early Yellow Summer Crookneck, but larger and later. Fruits weigh 4-5 lb.; neck curved; skin lemon-yellow, warted; flesh thick and yellow.			
<b>GIANT SUMMER STRAIGHTNECK</b> .....	18	4½	60
Packs for shipping to better advantage than Crookneck. Popular with market gardeners and shippers. Fruits thick-necked, heavily warted, straight lemon-yellow; flesh thick, light yellow.			
<b>GREEN TINTED BUSH SCALLOP, Asgrow strain</b> .....	3	8	55
A superior strain developed by inbreeding and progeny crossing a stock we have used for many years. Plants large and prolific. Fruits uniform in scalloping and in the shade of pale green favored at market; holding this desirable color until long after marketable stage; devoid of knots or warts. Benning's is an older green tinted scallop type, warted and turning yellowish buff at maturity.			



*Green Tinted Bush Scallop: A much improved Asgrow strain*

## SQUASH—Continued

	Length inches	Diam- eter inches	Days
Mammoth White Bush Scallop .....	3½	9	56
Our special strain of White Bush Scallop, selected for size and uniformity of fruits. Deep, smooth, attractive and evenly scalloped; retain their white color at later stages.			
WHITE BUSH SCALLOP (Patty pan) .....	3	7½	52
An old favorite for home and market gardens. Fruits pale green when very young, becoming white as they grow, to 2½ lb.; shaped somewhat like a round pie or patty with scalloped edges.			
Wood's Early Prolific .....	3½	7	52
A White Bush Scallop strain. Fruits cream-white only slightly scalloped. Not so uniform in color as the white scallop varieties listed above.			
Yankee Hybrid .....	14	3½	50
Recently developed at the Connecticut Agricultural Experiment Station. A true hybrid, of which the seed is to be produced by crossing the inbred parents each year. Similar in size and appearance to Early Prolific Straightneck but yields more fruits at first picking.			
Yellow Bush Scallop .....	3	8	58
Similar to White Bush Scallop in size and shape of fruits and habit of growth, but deep yellow in color.			
Zucchini .....	12	4	60
A well known Italian Marrow type. Fruits very nearly cylindrical, straight. Color medium green, mottled with cream-gray and lighter green lace pattern and stripes; flesh very firm, and of delicate flavor.			
Black Zucchini .....	13	4½	62
Developed from Italian Marrow; notably popular in the West and South. Fruits are cylindrical, long, smooth, dark green-black; flesh greenish white at eating stage and of good flavor.			



*Boston Marrow: Extensively used for canning*

## Vining or Fall Varieties

*C. maxima*

	Length inches	Diam- eter inches	Days
Banana .....	20	5	105
Cylindrical and pointed at blossom end, with thin, slate-gray rind. Flesh thick, fine grained, yellowish orange, and of sweet flavor. Seeds brown and highly enameled.			
Blue Hubbard .....	14	9	110
A popular New England type. Superior in edible quality to other Hubbard strains. Fruits large, round, pointed at both ends; slightly ridged, with very hard blue-gray rind; weigh 12-14 lb. Flesh yellow-orange, thick, of fine flavor.			
BOSTON MARROW .....	12	9	97
A very productive variety, extensively used for canning. Resembling Hubbard in size and shape, the fruits weigh 6-8 lb. The deep orange skin is somewhat rough, and quite hard; flesh is yellow, thick, fine grained, moist.			
Buttercup .....	4 $\frac{1}{4}$	6 $\frac{1}{2}$	100
Developed by Prof. A. F. Yeager at North Dakota Agricultural College. Shape similar to that of Turban, 3 $\frac{1}{2}$ lb. Rind thin and tough, dark green with narrow gray stripes and slight mottling. Orange flesh cooks sweet and dry. A small, thick-fleshed squash of good storage and eating quality.			
Delicious, Green .....	11	8	102
Top-shaped fruits, 7-8 lb. Skin dark green, with light green stripes toward the blossom end; flesh orange, dry, and of good flavor. An excellent keeper.			
Fordhook <i>C. pepo</i> .....	8	3	62
Fruits tapered toward stem, somewhat ridged, smooth, cream colored; 1 $\frac{1}{2}$ -2 lb.; flesh extremely thick, straw colored, dry and sweet. A bush strain of this variety is also available.			
GOLDEN DELICIOUS MARROW .....	11	8	100
Originated by Gill Bros. Seed Co. Highly desirable for canning on account of its extremely dry flesh. Excellent also for home use. Fruits top-shaped, about 7 lb. Color bright reddish orange, with deep green tip at blossom end. Flesh thick, medium grained, golden orange, sweet and dry.			
Golden Hubbard .....	11	8	100
Similar to Green Hubbard, but earlier, smaller, and more prolific. Popular with home and market gardeners and canners. Fruits somewhat pointed at each end, 8-10 lb., moderately warted, orange-red, with faint cream colored stripes toward blossom end; flesh deep orange, dry, and of fine quality; keeps well.			
GREEN HUBBARD, IMPROVED .....	12	9	105
Standard winter sort for home and market gardeners, and for shipping. Fruits 10-12 lb. pointed at both ends, slightly warted, dark bronze-green in color; rind hard and tough; flesh very thick, orange-yellow, dry and sweet.			

## SQUASH—Continued

	Length inches	Diam- eter inches	Days
Mammoth Chili .....	22	18	120

The giant among squashes. Grown mainly for stock feeding or exhibition purposes. Fruits globular, slightly ribbed, flattened; 60-75 lb.; skin light yellow, mottled with orange, and sometimes slightly netted; flesh solid, yellow-orange, coarse, but of fair quality.

TABLE QUEEN (Des Moines: Acorn) <i>C. pepo</i> .....	6	4½	58
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Desirable for home and market garden use, also for shipping. Oval fruits, pointed at the blossom end, ribbed, smooth, thin-shelled, dark green. Flesh light yellow; bakes well with sweet, inviting flavor. An early maturing variety which can also be planted for summer use.

Golden Table Queen is similar except for external color.



*Table Queen: A very popular little squash for home baking*

Turban .....	10	8	100
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Fruits 9-10 lb., of distinctive shape; cylindrical, flattened, with a prominence set in a depression at the blossom end, "a squash within a squash." Skin orange-red in color, somewhat rough; flesh deep orange, and of good flavor.

Vermont Hubbard .....	12	8½	105
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Originated by the Vermont Experiment Station. Similar in size and shape to Improved Hubbard, but more warted and uniform. Fruits about 10 lb.; dark green in color; shell very hard and strong; flesh exceptionally thick, deep orange, dry, fine grained, and of excellent flavor.

WARTED HUBBARD .....	13	9½	110
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Somewhat larger than Improved Hubbard, and more thickly covered with warts. Fruits about 14 lb., pointed at each end, very dark green; flesh deep orange-yellow, dry, and sweet. A prolific, good keeping sort.

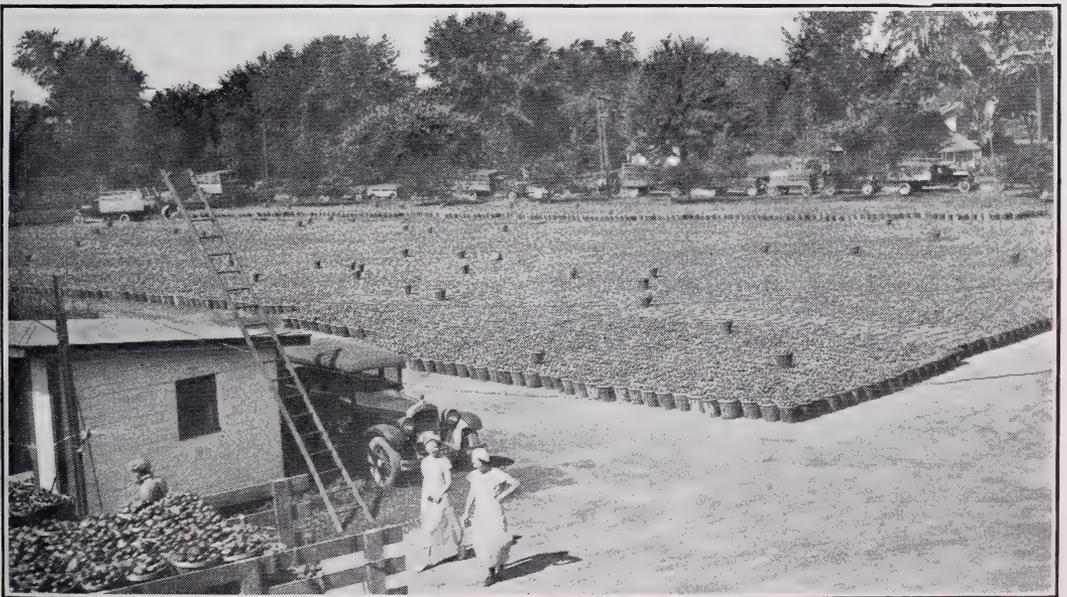
# TOMATO

*Lycopersicum esculentum*

New varieties are being developed at our breeding stations and older varieties improved through individual cultures produced under expert handling. Disease resistance, attractiveness of color, thickness of walls, and heavy cropping qualities have been attained to a high degree. Seed is also available of leading shipping and canning varieties, certified as to purity and freedom from disease by various State Departments of Agriculture.

The number of days indicated represents the time required from setting of plants to produce marketable fruits. It takes 4-5 weeks to produce plants for field setting. Varieties marked r. are red fruited; y. yellow; p. pink; and s.f. small fruited.

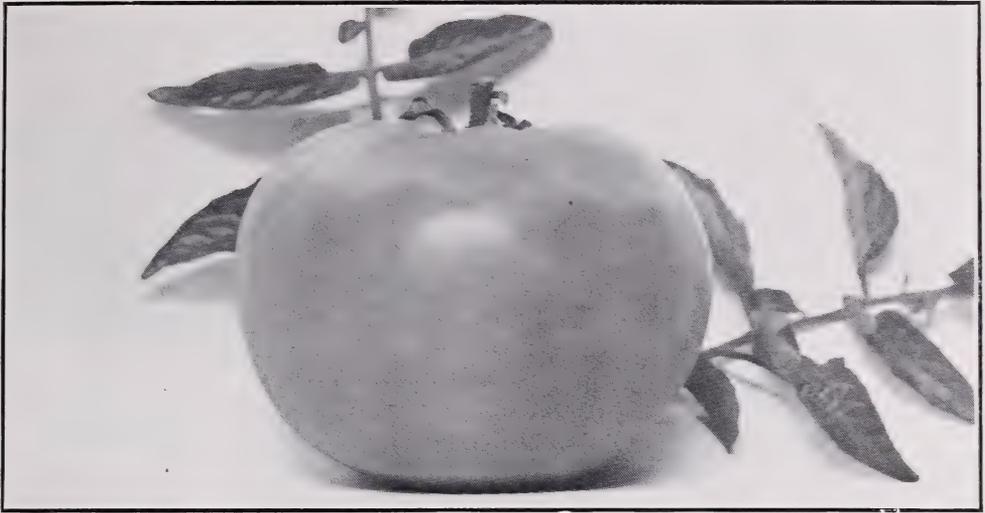
	Days
Acme (Early Detroit), p. ....	80
For home gardens and shipping. Plant heavy and productive. Fruits borne in clusters, purplish pink, smooth, semi-globular, of medium size.	
Beefsteak (Crimson Cushion: Red Ponderosa), r. ....	90
A wilt resistant, large variety, for home and market garden use. Plant open in habit of growth, heavy, rather light green, vigorous. Fruits large, flat, scarlet, rather smooth.	
Bonny Best, r. ....	73
Standard second early variety for market gardeners, shippers and canners. Plant medium, not very hardy. Fruits slightly flattened globe shape, of medium size; smooth, solid, bright scarlet in color, of excellent quality.	
Break o' Day, r. ....	70
Has considerable resistance to wilt and nail-head rust. Plant light, of open, spreading habit. Fruits medium large, orange-red, uniform, globe-shaped, smooth. The yellow cast in color and light vine growth are drawbacks to this variety.	
Brimmer, p. ....	90
An exceptionally large fruited variety for home gardens. Plant large with deep green leaves. Fruits very large, quite uniform, flat, dark pink, coreless and solid; mild in flavor, good for slicing.	



*Asgrow tomatoes harvested for seed saving*

## TOMATO—Continued

	Days
Cardinal, r. ....	78
A recent Asgrow introduction bred to provide an earlier Improved Stone type in the main crop class. Strong dark green, very prolific plants which retain their foliage through a long bearing season. Large, handsome, semi-globe fruits of rich scarlet with unusually deep interior color; smooth, thick-walled and solid.	
Chalk's Early Jewel, r. ....	74
A second early sort for home gardeners and truckers, also good for canning in the North. Plant medium, with open growth; prolific. Fruits medium large, smooth, scarlet, flattened globe-shaped. Very similar to Bonny Best.	
CLARK'S SPECIAL "B," r. ....	81
Bred and introduced by us in 1922 as a main crop canning variety. Plant vigorous, somewhat open, prolific. Fruits large, deep-flat, bright red, quite free from cracks, solid; interior color deep red; small seed cells. Resembles Indiana Baltimore, but is deeper and somewhat smoother.	
CLARK'S SPECIAL "C," r. ....	87
Also an Asgrow variety; to follow Clark's Special "B" in season. Plant heavy, vigorous and prolific. Fruits very large, deep scarlet-red, flattened globe shape; very smooth and mild. Of late Stone type and uniform.	
Clark's Special Early, r. ....	72
An Asgrow introduction in 1919. Extensively used both in the North and South for green wrapping and shipping, also good for slicing and canning. Plant of medium growth, open, very prolific. Fruits medium large, globe-shaped, bright scarlet, smooth, solid, with thick walls.	
Cleo, r. ....	84
An Asgrow introduction in 1938, especially adapted for green wrap shipping in the South. Plant vigorous but of open habit, a little taller than Marglobe, and very prolific. Fruits of medium size, smooth, globe-shaped, with small stem; size uniform throughout the season.	
Dwarf Champion, p. ....	86
Desirable where space is limited. Plant of dwarf tree type, with dark green leaves. Fruits medium, smooth, solid, pink in color; globular, flattened.	
Dwarf Stone, r. ....	92
Most widely used of the dwarf varieties. Plant short, compact, with dark foliage. Fruits large, flattened globe, exceptionally attractive bright red in color, and quite solid.	
EARLIANA IMPROVED, r. ....	66
An Asgrow improved strain of this standard first-early variety, bred for thicker, smoother fruits. Widely adapted and valuable in areas of shorter season. Plant open, spreading, medium small, with finely cut foliage. Fruits flattened, medium sized, firm, bright red, quite smooth.	
Early Santa Clara, r. ....	83
An early strain of this standard California canning tomato. Very uniform; fruits large, flat, deep red and meaty; of sub-acid flavor. Adapted only to the Pacific Coast.	
Early Shipper, r. (No. 112) ....	72
Our introduction in 1935. An early variety specially adapted to California growing and shipping. Plant somewhat open, foliage medium, more sturdy than most early sorts, very prolific. Fruits of medium size, bright scarlet-red, smooth, globe-shaped with heavy side walls and small seed cavities. Very free from cracking and puffiness.	



*Indiana Certified Associated Baltimore: A deeper-fruited strain*

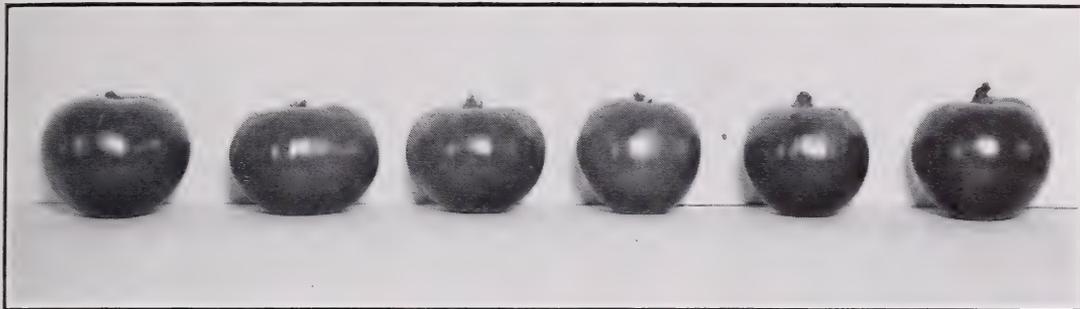
	Days
<b>GOLDEN QUEEN, y.</b> .....	84
The standard large yellow variety. Good for home gardens and for commercial juice. Plant of medium size. Fruits medium large, deep golden yellow; smooth, rather solid, of mild flavor.	
<b>Greater Baltimore, r.</b> .....	82
Mainly a canning variety. Plant large, vigorous, somewhat open. Fruits flat, medium large, deep scarlet, fairly solid and firm.	
<b>Grothen's Globe, r.</b> .....	68
Well adapted to green-wrap shipping; particularly desirable for truckers and shippers in Florida and Texas. Resembles Break o' Day and is similarly disease resistant, but has a positive bright red color. Plants have much heavier foliage, affording better protection from sun-scald. A heavy cropper. Fruits medium large, globular; firm, and solid; interior ripens slowly. Best adapted to sandy loam soils of the lighter type.	
<b>Gulf State Market, p.</b> .....	80
Used widely in the South for shipment to Northern markets. Plant vigorous, rather open, medium height. Fruits medium large, globular, smooth, purplish pink, thick-skinned, very solid and quite free from cracking.	
<b>INDIANA CERTIFIED ASSOCIATED BALTIMORE, r.</b> .....	79
This earlier, deeper-fruited Asgrow strain is particularly desirable for canners and market gardeners of the East and Midwest; certified free from seed-borne diseases by Purdue University Agricultural Experiment Station. Plant large with medium heavy foliage. Fruits large, thick-flat, smooth, deep red, solid and attractive; good for juice as well as regular pack.	
<b>John Baer, r.</b> .....	70
An early sort maturing between Earliana and Bonny Best. Excellent for gardeners serving local markets and for canning. Plant of medium height and open growth. Fruits medium size, smooth, semi-globular, attractive deep scarlet, with medium walls and small core. The Asgrow strain is exceptionally early.	
<b>JUNE PINK, p.</b> .....	69
Sometimes called Pink Earliana. The earliest of the pink fruited varieties. Plant is open, spreading, and rather short. Fruits of medium size, flattened, smooth; color purplish pink.	

## TOMATO—Continued

- |  | Days |
|--|------|
| Livingston's Beauty, p. ....   | 84   |
| One of the best pink fruited sorts. Plant sturdy, vigorous and prolific. Fruits medium large, deep-flat, smooth, purplish pink, solid, of good quality.  |      |
| LIVINGSTON'S GLOBE, p. ....  | 82   |
| Originated by Livingston Seed Co. An excellent variety used largely in the South for shipping; also well adapted to greenhouse production. Plant strong and prolific, with heavy foliage; leaves broad, light green. Fruits large, full globe, smooth; purplish rose; ripen evenly; of good quality and inviting flavor.   |      |
| Louisiana Pink, p. ....  | 75   |
| A southern variety. Plant open, with fine cut leaves; strongly wilt resistant. Fruits medium sized, quite smooth, deep-flat, purplish pink.  |      |
| MARGLOBE, r. ....  | 77   |
| Introduced by the U. S. Dept. of Agriculture in 1925, this main crop variety has come into wide use by truckers and shippers, and in some sections by canners. Plant vigorous, with heavy foliage, resistant to Fusarium wilt and nail-head rust; moderately productive. Fruits medium large, nearly globular, deep red, smooth, solid, with thick walls and cross-sections; of fine quality.              |      |
| CERTIFIED MARGLOBE, r. ....  | 78   |
| The Asgrow strain of this well known and widely used variety is distinguished for its freedom from puffiness, increased depth and heavier yield. Plant vigorous, dark green, resistant to Fusarium wilt and nail-head rust, quite productive. Fruits large, nearly round, smooth, bright deep scarlet with solid interior and small seed pockets; flavor mild. Adapted to field and greenhouse production. |      |



*Pearson: A California variety. Foliage removed to show heavy set*



*Cardinal : Stone : Associated Baltimore : Marglobe : Grothen's Globe : Rutgers*

- |   |            |
|---|------------|
| MINGOLD, y. ....  | Days<br>73 |
| Developed at the Minnesota Experiment Station. All-America Silver Medal for 1940. An excellent yellow-fruited variety, early and prolific. Fruits medium large, globular, smooth; of mild and pleasant flavor.  |            |
| Norton, r. ....   | 88         |
| A wilt resistant variety, similar to Stone, introduced by the U. S. Dept. of Agriculture. Plant medium heavy and productive. Fruits large, flattened globe-shaped, deep cardinal-red; solid, and of excellent quality.  |            |
| No. 113, r. ....  | 83         |
| A mid-season variety developed at our Pacific Coast breeding station, particularly adapted to California growing conditions. Plant sturdy and very prolific. Fruits semi-globular, solid, smooth, deep scarlet, very free from skin cracks; ripen uniformly red with no hard green core; hold firmness and shape well when canned.  |            |
| Oxheart, p. ....  | 90         |
| Plant is open, spreading, only moderately productive. Fruits large, heart-shaped, somewhat rough, pink; very solid, meaty, and of mild flavor.  |            |
| Pan America, p. ....  | 73         |
| Recently developed by the U. S. Department of Agriculture at Beltsville, Md., from a cross of a small-fruited Peruvian variety and Marglobe. Highly resistant to Fusarium wilt. Fruits globular, of medium large size, bright red color and thick walls, heavily borne.   |            |
| PEARSON, r. ....  | 76         |
| Developed at the College of Agriculture, California and improved at the Asgrow Pacific Coast breeding station. Primarily for canning but also of value as a shipper. Vigorous self-topping plants with ample foliage to protect the heavy set of fruits, which are medium large, semi-globe and of good red color. Its tough skin is of value to both the canner and the shipper in California. |            |
| Ponderosa, p. ....  | 88         |
| One of the largest varieties in general use for home garden planting. Plant large and spreading, with medium green leaves. Fruits very large, flat, purplish pink, somewhat rough, with tendency to crack, solid, with small seed cells; of inviting flavor.  |            |

**TOMATO—Continued**

	Days
Pritchard (Scarlet Topper), r. ....	76
<p>Introduced by the U. S. Dept. of Agriculture. All-America Gold Medal 1934. Plant self-topping, resistant to Fusarium wilt and nail-head rust. Fruits globular with thick walls; color light scarlet, not as intense as could be desired. For market gardens, shipping and canning.</p>	
Red Cherry, s.f. ....	73
<p>Valuable for preserving, and as a novelty. Plant rank in growth. Fruits small, rich scarlet-red, cherry-like; borne in heavy clusters.</p>	
Red Pear, s.f. ....	73
<p>Very similar to Red Cherry, except that fruits are pear-shaped.</p>	
Red Plum, s.f. ....	73
<p>A red fruited sort, resembling a plum in shape and size. Grown as a novelty, and for preserves.</p>	



*Certified Rutgers: A 38-acre field of this notable Asgrow strain*

RUTGERS, r. ....	86
<p>A recent introduction by the New Jersey Experiment Station which has deservedly achieved general popularity. Primarily intended for canning, has also proven a good green-wrap shipper and all-purpose variety of wide adaptation. Bred from Marglobe and J.T.D., it combines the best qualities of both, including Marglobe's resistance to disease and J.T.D.'s habit of ripening from the interior outwards. Plant large with thick stems and vigorous foliage. Fruits globular, bright red, smooth, with thick walls and small seed cells.</p>	
CERTIFIED RUTGERS, r. ....	86
<p>By careful selection over a period of years, we have developed a very choice deep fruited strain of Rutgers, notable for its uniformity and high yield of U. S. No. 1 fruits. It is available only in Asgrow containers, and bears Experiment Station certification as to trueness to type and freedom from seed-borne diseases.</p>	



*Scarlet Dawn: A very attractive early variety*

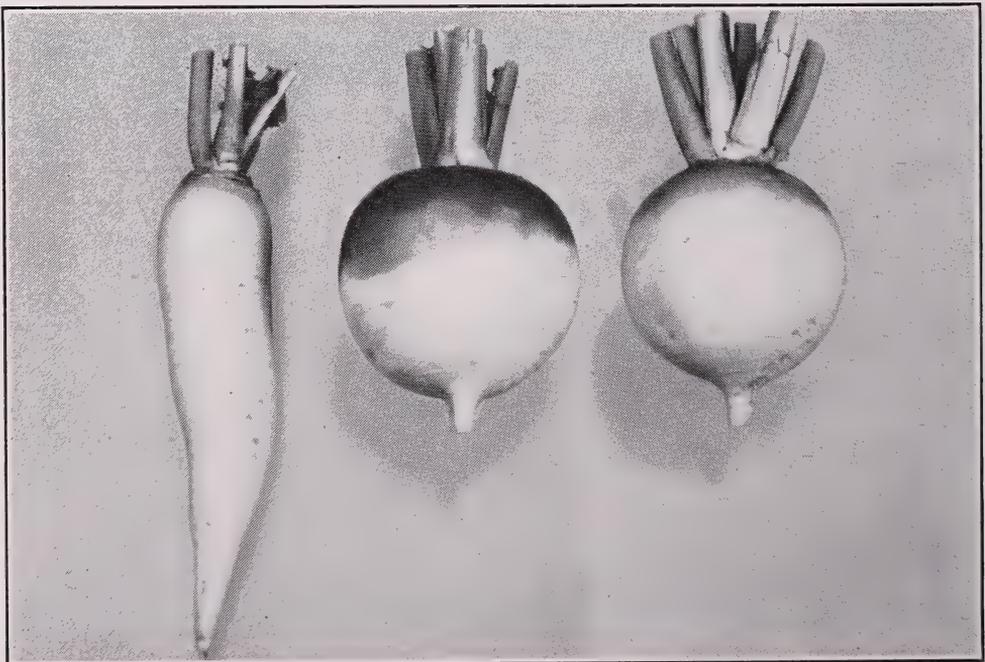
	Days
San Marzano (Improved King Humbert), s.f. ....	80
A small fruited variety used for canning solid pack and for puree, also for preserves. Plant medium, rather open, very prolific. Fruits largely rectangular, 3½" long x 1½", two-celled, borne in clusters, deep red, with little juice and of very mild flavor. The Asgrow strain is notably thick, uniform and solid.	
SCARLET DAWN, r. ....	70
Developed at the Asgrow Eastern breeding station from a cross of Clark's Early and Marglobe; earlier in season than either parent. All-America Gold Medal for 1935; leading early variety for garden, shipping and canning. Plant of medium growth, fairly open, very prolific. Fruits medium large with thick wall structure, globular, smooth, free from flat sides; bright scarlet, ripening well to the stem, exceptionally attractive. Adapted to both field and greenhouse production.	
Stokesdale, r. ....	73
Introduced by the Francis C. Stokes Co., an attractive second early variety of wide adaptability and heavy yielding ability. Fruits smooth and practically spherical medium large in size and of good red color.	
Stone, Improved, r. ....	86
Plant large, dense, very productive. Fruits large, flattened but deep, smooth, attractive scarlet-red of fine flavor. The Asgrow strain ripens evenly and is uniform.	
Victor, r. ....	66
Recently introduced by Michigan State College and awarded the All America Bronze Medal for 1941. Plants rather small and sparse in foliage, of self-topping habit. Bright scarlet fruits of medium size largely ripening at the same time. A promising first early variety.	
Yellow Cherry, s.f. ....	73
Fruits are small, round, yellow, with shape and size of a cherry. Grown for preserving and as a novelty.	
Yellow Husk (Strawberry), s.f., <i>Physalis pubescens</i> ....	86
Not a tomato, though usually catalogued under that heading. Plant spreading and flat. Fruits plentiful, small, yellow, round, enclosed in a loose papery husk; of delicate flavor. Grown as a novelty, and for preserves.	
Yellow Pear, s.f. ....	73
Very similar to Red Pear, except for color.	
Yellow Plum, s.f. ....	73
A yellow fruited sort, with oval plum-shaped fruit. For preserves.	
Yellow Ponderosa, y. ....	89
A very large, mild flavored sort, desirable for the home garden. Plant large, spreading, strongly resistant to wilt. Fruits very large, flat, somewhat rough, deep yellow; quite solid with small seed cells.	

# TURNIP

*Brassica rapa*

The number of days represents the time required from sowing of seed to roots of marketable or storage size, at our Eastern breeding station, Milford, Connecticut. The Asgrow pure bred stocks of the leading varieties are standards of quality. Varieties marked (w) are white fleshed: those marked (y) are yellow: the tops of those marked (g) are used for "greens."

	Diameter inches	Days
Amber Globe (Yellow Globe) (y) .....	6	76
Principally a stock feed variety; also used for table when young. Tops large, cut leaved. Roots round, large, smooth, globe-shaped, light yellow with green top; flesh yellowish white.		
Broccoli Rab (Italian Turnip) (g)		
Grown for tops and tender flower shoots used as greens. Plant 18"-22" tall; strap leaved, medium green. Of value to truck gardens as first early greens for market.		
Cow Horn (Long White) (w) .....	2½	70
Tops large, upstanding, with deeply cut leaves. Roots white with light green shoulder, one-third out of ground, 9"-10" long, tapering, often crooked. A sweet, tender variety.		
GOLDEN BALL (y) .....	3½	65
An attractive sort for the home garden and for truckers. Tops small, erect, cut leaved. Roots medium sized, round, smooth, yellow; flesh deep yellow, of fine texture and flavor.		
Pomeranian White Globe (Large White: Norfolk) (w) .....	4½	75
Planted largely in the South. Tops large, with cut leaves. Roots large, globe-shaped, slightly flattened, 4-8 lb.; white throughout, smooth, firm. A heavy cropper; keeps well.		



*Cow Horn: Purple Top White Globe: Yellow Aberdeen Purple Top*

	Diameter inches	Days
Purple Top Milan (w) .....	3½	42
An extra early sort for forcing or general use in home and market gardens. Tops small, strap leaved. Roots very flat, white with purple top; flesh white, fine grained and sweet.		
PURPLE TOP STRAP LEAVED (w) .....	4	46
A medium early, very productive variety, used extensively in home and market gardens. Tops medium small, upright and compact. Roots flat, purple-red at the top, white below; flesh white, fine grained and tender.		
PURPLE TOP WHITE GLOBE (w) .....	4	57
The most popular variety for home and market gardens, and for shipping. Tops dark green, large, erect, cut leaved. Roots large, globe-shaped, very smooth, upper part purple-red, white below; flesh white, sweet, crisp and tender. The Asgrow strain is very uniform and attractive.		
SEVEN TOP (g)		
A very hardy sort, grown principally for greens, also for forage. Popular throughout the South. The young shoots are very tender; roots tough and unsuitable for food.		
Shogoin (g) .....		30
A popular fast growing variety, for early greens and small roots. Tops 18"-20" tall, erect, bright green, strap leaved. Roots semi-globular, white throughout, mild and tender.		
Snow Ball (w) .....	2½	40
An early sort for home and market garden planting. Tops small and erect. Roots medium sized, round, white throughout, crisp, sweet and tender.		
Southern Prize (g)		
Used in the South as a foliage turnip for greens, and the large white roots for stock feed. Similar in growth to Seven Top.		
WHITE EGG (w) .....	2¼	* 60
For home gardens and local markets. Tops medium sized, upright, cut leaved. Roots white, egg-shaped, 3"-3½" long, white throughout; smooth, fine grained, and of fine quality.		
White Flat Dutch (w) .....	4	46
An early variety for home and market garden planting. Tops small, erect, strap leaved. Roots flat, 1½" in depth, white throughout; fine grained and sweet.		
White Milan (w) .....	3½	42
Extremely early; good for forcing, as well as garden culture. Tops small, compact, strap leaved. Roots medium small, very flat, white throughout, sweet and tender.		
YELLOW ABERDEEN, PURPLE TOP (y) .....	4½	80
Excellent for winter use. Cut leaved, globular, quite smooth, color purple at top, yellow below; flesh firm, light yellow.		
Yellow Globe (y) .....	4½	80
A good sort for stock feed. Tops large, erect, cut leaved. Roots large, globe-shaped, smooth, pale yellow throughout; flesh firm, and of good quality.		

## RUTABAGA: SWEDE TURNIP

*Brassica napobrassica*

	Diameter inches	Days
<b>AMERICAN PURPLE TOP</b> ..... Also called Long Island Improved. A dependable variety for storage and shipping. Roots large, globular, inclined toward top shape with relatively small neck; yellow with purple top; flesh light yellow, firm, of good texture and quality.	5	90
<b>Bangholm</b> ..... Similar to American Purple Top, but having somewhat thicker neck. Roots very large, spherical, yellow, with purple crown, somewhat rough; grow one-half above ground. Flesh light yellow, firm, of good flavor.	5	90
<b>Early Neckless</b> ..... Resembles American Purple Top but with medium top and very small neck. Roots flattened globe in shape, yellow with purple top; flesh yellow, firm and of excellent quality.	4½	85
<b>Macomber</b> ..... A white-fleshed variety of superior table quality. Roots nearly round, almost neckless, white with greenish purple top. Well adapted to New England.	4	85
<b>Sweet Russian (White Swede)</b> ..... A productive variety grown for table and stock feed. Roots very large, globular, with medium neck, color mainly white, with bronze-green top; flesh white, sweet semi-firm.	5	90



*Early Kansas Watermelon: Well adapted to Midwestern conditions*

## WATERMELON

*Citrullus vulgaris*

In addition to the production of regular stocks definite attention is directed at our Southern breeding grounds to the development of improved strains of important varieties resistant to Fusarium wilt. The number of days represents the time required to produce full-grown fruits in the seed-growing sections.

	Weight pounds	Days
Alabama Sweet, Improved .....	25	85
For shipping. Fruits large, oblong with rather thin but tough rind; medium green with deeper green mottled stripes. Flesh bright red, fine grained, sweet; seed mottled white.		
Cletex (Spotted Watson) .....	30	90
Similar in size and shape to Tom Watson but with dark green irregular mottling on lighter green background of rind. Flesh red and sweet, rind tough enough for good shipping. Seed brown.		
Chilean .....	18	85
A blunt-oval variety of medium size. Outside color medium green with darker green stripes. Rind thin and tough, flesh deep red, medium sweet. There are two strains of this variety: the more common one black seeded, the other white.		
Citron, Green Seeded (Colorado Preserving) .....	12	95
Used only for preserving: extremely productive. Fruits round with alternate dark and light green striping. Flesh white and solid; seed quite heavy, smooth, glossy green.		
Citron, Red Seeded .....	10	95
Practically identical with Green Seeded Citron, except slightly smaller and with bright red seed. Used for preserving.		
COLE'S EARLY (Harris' Early) .....	20	75
A leading early, productive variety for home gardens and local markets; particularly in the North. Fruits medium sized, short, oval, with alternate dark and light green stripes; tender rind. Flesh pink-red; seed black.		
DIXIE QUEEN .....	30	85
A very prolific, shipping type of excellent quality. Fruits oval-round, light green with dark green stripes, weigh 30 lb.; rind thin but tough. Flesh bright red, crisp, and quite free from fibre; seed small, white and few. Sometimes incorrectly described as white-seeded Cuban Queen.		
EARLY KANSAS (Indiana Striped: Russian Red-seeded: Kansas Queen) .....	30	80
Has become very popular in the Midwest. A heavy cropping variety for local markets and shipping. Fruits large, nearly round, bright green with broad, wavy stripes of lighter green. Flesh bright red, thick, free from stringy heart, of excellent flavor; rind thin and tough; seed brownish red when immature changing to buff when dry.		
Florida Favorite .....	30	80
Popular in the South with home and market gardeners, and for early shipping to nearby markets. Fruits long, medium large; medium green skin with irregular dark green stripes; rind moderately tough. Flesh deep red, of excellent flavor; seed white.		

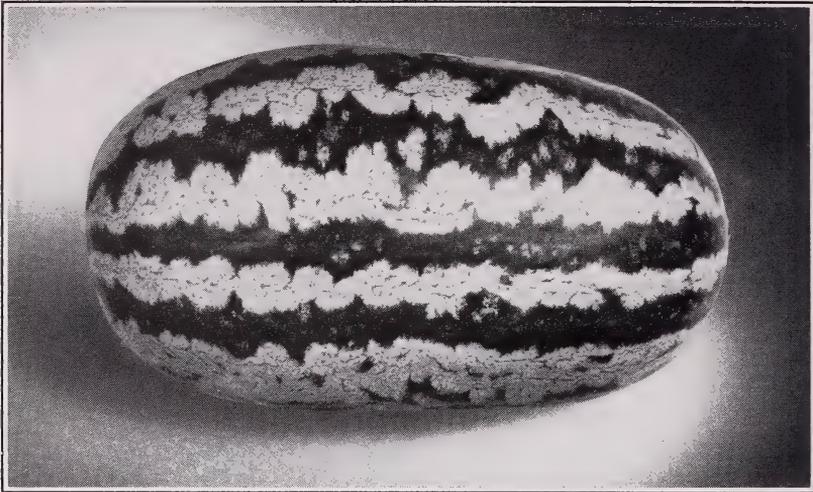


*Florida Giant: A very large Southern variety*

## WATERMELON—Continued

	Weight pounds	Days
FLORIDA GIANT (Cannonball) .....	40	95
Vines vigorous and very productive. Fruits dark green, nearly round; flesh firm and red; of excellent quality. Ships well, though rather large for some markets, and is one of the best all-purpose varieties. Seed with heavy dark brown flecking on tan ground.		
Georgia Rattlesnake (Augusta Rattlesnake) .....	28	90
Fruits large, elongated, gray-green, with irregular very dark green stripes; rind very tough. Flesh bright pink, seed dull white with black tip.		
Golden Honey (Honey Cream: Golden Sweet) .....	20	85
Fruits chunky, nearly round, medium sized, light green with mottled darker green stripes; rind brittle. Flesh amber-yellow, seed brown.		
Graystone .....	35	90
Introduced by H. G. Hastings Co. All-America Silver Medal for 1933. Of Stone Mountain type but with thin, tough, mottled gray-green rind. Flesh crisp, red and exceptionally sweet. Seed white.		
Halbert's Honey .....	35	82
Similar to Kleckley's Sweet, but somewhat larger; desirable for home and market gardens, but not for shipping. Fruits long, cylindrical, with blunt ends, slightly ridged, dark green, lightly veined; rind very tender. Flesh bright red, and exceptionally sweet; seed white with blackish tip.		

	Weight pounds	Days
Hawkesbury (Gray Shipper) .....	35	85
A wilt-resistant shipping variety developed by the Australian Department of Agriculture. Of the Irish Gray type: long and sloping toward either end, light gray with fine veining of green. Flesh dark pink, of good quality. Seed brownish black.		
Irish Gray .....	30	95
A very good shipper. Hardy and productive. Fruits large, long, smooth, creamy white tinged with green; rind tough and hard. Flesh very bright red, and firm; seed white.		
KLECKLEY'S SWEET (Monte Cristo) .....	30	85
Similar to Wondermelon. An excellent variety for home gardens and local markets. It will not stand shipping long distances. Fruits large, cylindrical, dark bluish green, with thin, tender rind. Flesh bright red, tender and extremely sweet; seed creamy white with traces of brown.		
Kleckley No. 6 .....	28	90
A wilt resistant variety of high quality developed by Dr. J. J. Wilson at the Iowa Experiment Station; of the same type as Kleckley's Sweet and with as high a sugar content. Rind thin but tough, flesh free from veins or coarse strings.		
Klondike .....	25	80
Popular in California. Fruits oblong, slightly tapering to the blossom end, solid dark green rind. Flesh very sweet and of fine texture; seed small, black.		
KLONDIKE R7 .....	25	80
A Fusarium wilt resistant green Klondike type developed at the College of Agriculture, Davis, California, and released in 1936. Vines vigorous and prolific, fruits similar to Klondike but with somewhat tougher, though thin rinds—making for better shipping quality. Flesh bright deep red, of excellent quality. Seed small, varying in color from tan to black.		
STRIPED KLONDIKE .....	25	80
A shipping and garden variety with irregular dark green stripes on lighter ground. Fruits oblong, of medium size, rind medium hard. Flesh deepest red known in watermelon; sweet and crisp; seed small, varying in color from white to black.		
Blue Ribbon is a new development of Striped Klondike type, from the University Farm, Davis, California. Resistant to Fusarium wilt.		
Leesburg .....	30	85
A wilt resistant variety developed from Kleckley's Sweet by Dr. M. N. Walker of the Florida Experiment Station. Fruits not quite so long as Kleckley's and with blockier ends. Rind a shade lighter in color and much tougher; flesh deep rose-pink; extremely sweet and of fine texture. Seed white.		
Northern Sweet .....	12	75
Adapted to shorter season areas. Fruits small, nearly round, medium green with dark green stripes; rind very thin. Flesh very deep red, crisp, sweet, and of good flavor. Seed light brown with darker edge.		
Peerless (Ice Cream) .....	20	85
Fruits oblong, medium green, with fine veining; rind thin. Flesh bright red, sweet; seed white. For home gardens.		



*Striped Klondike: Early and sweet*

## WATERMELON—Continued

	Weight pounds	Days
Schochler .....	45	95
Fruits very long, large, dark green, with very faint stripes; rind hard and tough. Flesh rich red, coarse grained, of fairly good quality. Seed brown.		
STONE MOUNTAIN, IMPROVED .....	35	90
Introduced by H. G. Hastings Co. A high quality shipping variety, also for garden planting. Fruits very large, oval-round with blunt ends; medium green with indistinct veining, rind thin but fairly tough. Flesh rich scarlet, fine grained and very sweet; seed white with black edge.		
Stone Mountain, Improved No. 5 .....	27	80
A Fusarium wilt resistant strain of this widely used variety developed by the Iowa Experiment Station. Earlier and smaller than the original strain; does not ship so well.		
Sweet Heart .....	22	85
Fruits large, nearly round, gray with fine veining of light green; rind tough and elastic. Flesh pink; seed black.		
Texas Sweet (Paragon) .....	32	92
Fruits large, oblong, medium green, with irregular light gray-green stripes; rind thin but strong. Flesh blood-red, uniform, fine in texture, flavor and quality; seed small, dark brown.		
Thurmond Gray .....	35	95
Similar to Irish Gray but darker and having somewhat larger fruits, this variety has made a strong place for itself among shipping sorts. Highly resistant to disease. Fruits large, uniform, cylindrical, gray-green with faint veining; rind exceptionally tough. Flesh deep red, of good quality, seed brown.		
TOM WATSON, IMPROVED .....	35	95
A desirable red heart strain of this well-known variety. Fruits very large, uniform, cylindrical; with deep green, veined,		
WONDERMELON (Improved Kleckley's Sweet) .....	40	85
Excellent for home and market garden, but not adapted to shipping long distances. Fruits large, cylindrical, with slight ribbing, dark glossy green; very attractive, with thin rind. Flesh deep red, juicy and very sweet; seed broad and white.		

**HERBS: Aromatic and Medicinal**

A—Annual; B—Biennial; P—Perennial

- Anise *Pimpinella anisum*. A. Seeds for cakes and cookies; leaves for garnishing.  
Not to be confused with Florence Fennel (page 50).
- Balm (Lemon Balm) *Melissa officinalis*. P. Fragrant lemon-scented leaves.
- Borage *Borago officinalis*. A. Fuzzy leaves of cucumber flavor. A bee plant.
- Caraway *Carum carui*. B. Seeds for cakes and condiments.
- Coriander *Coriandrum sativum*. A. Seeds for spices and condiments.
- Dill *Anethum graveolens*. A. For pickles. See page 49.
- Horehound *Marrubium vulgare*. P. Leaves for seasoning. Juice for cough candy.
- Hyssop *Hyssopus officinalis*. P. Used in condiments and in eau de cologne.
- Lavender *Lavandula spica*. P. Yields oil for perfume. Dried flowers used in sachets.
- Rosemary *Rosmarinus officinalis*. P. Leaves for seasonings and perfume manufacture.
- Rue *Ruta graveolens*. P. Bitter leaves for seasoning and toilet preparations.
- Sage *Salvia officinalis*. P. For seasonings, medicines and soap perfumes.
- Summer Savory *Satureia hortensis*. A. Leaves used in salads; dried for soups, etc.
- Sweet Basil *Ocimum basilicum*. A. Flower buds and leaves for seasoning, etc.
- Sweet Fennel *Foeniculum officinale*. A. Stems edible; seeds used in confectionery.  
Not to be confused with Florence Fennel (page 50).
- Sweet Marjoram *Marjorana hortensis*. A. Used in seasonings; yields a fragrant oil.
- Thyme *Thymus vulgaris*. P. For seasonings, perfume and in garden borders.
- Wormwood *Artemisia absinthium*. P. Of fragrant odor and bitter taste.



At our Pacific Coast breeding station, Milpitas, California

## The Asgrow Germination and Analytical Laboratory



1. A partial view of the alternating temperature room germinator used for testing seed in sand or soil. Fluorescent light is used to produce chlorophyll.

Three prerequisites for "good" seed are that the seed shall be (1) Viable, (2) Clean, (3) Disease-free.

The most essential character of any Asgrow seed is its ability to germinate and produce normal plants under average conditions.

One of the primary functions of a seed laboratory is that of determining seed viability so that such seed may be evaluated for use by our customers. Viability implies ability to germinate and grow when proper environmental conditions are provided. A seed may be considered to have germinated when it develops those structures which are commonly recognized in different varieties, species, or families of plants as essential to normal seedlings. Broken, malformed or other seedlings which are known to be incapable of producing plants under suitable laboratory conditions are to be considered as not having germinated.



2. Part of the laboratory—the doors on the left lead to the germinating rooms. The analyst in the center of the picture is using a vacuum counter to count out and place 100 seeds on germination media.

## New Haven, Connecticut

A second function of a seed laboratory is to determine the purity of a seed stock. This is accomplished by computing freedom from dirt, chaff, other crop seeds, and weed seeds. If weed seeds or other crop seeds are present, it is necessary to identify them accurately and to report if any noxious weeds are present.

A third function of a seed laboratory is to determine if seed may be contaminated either internally or externally with bacterial or fungous organisms that are pathogenic to the seed or the plants that are expected to develop from the seed.

The Asgrow germination and analytical laboratory located at New Haven, Connecticut, is properly equipped and staffed to perform the functions mentioned above, both efficiently and effectively on a large scale. In order that we may handle a large number of samples at any one time, we use "room" germinators (Fig. 2). These rooms are sealed with 2" to 3" of cork; the temperature and humidity are accurately controlled by thermostats and humidostats; and they are lighted by fluorescent lamps. One room is capable of holding 3,000 samples in duplicate when tested by the blotter method, or 670 samples in sand test.

The best equipment available is used in connection with the purity work (Fig. 3); Binoculars, Iowa air blast separators, sieves, Boerner seed sampler, Chain-o-matic Balance, and special Neon lighted counting plates.

Complete and accurate records are made and kept of all operations in the laboratory. These records are on permanent file, so that they may be referred to readily. Purity and germination samples are retained in a systematic file, usually for at least one year beyond the receipt of the sample in the laboratory.



3. A part of the laboratory in which purity tests are conducted.

## The Asgrow Program of Research and Breeding

As research based on chemistry, physics and mathematics is the foundation of mechanized industry, so plant breeding based on genetics and its allied subjects is the basis of modern seed production.

The food standards of today are not satisfied by Nature's products as they would normally grow, unaided by man. Some plants, indeed, such as corn, could not continue to exist without cultivation, while others would revert to coarser forms unacceptable as food.

Particular conditions of environment, including soil, climate and the devastating effects of ever-increasing insects and diseases, demand new varieties or the adaptation of others. Advancement in the knowledge and technique of preserving foods calls for types especially suited to canning, freezing and dehydrating. In addition, the quality of older varieties which are in general use for whatever purpose must continually be maintained, so that they may not deteriorate from their accepted standards.

To attain these ends it is necessary to employ highly trained specialists in particular fields such as genetics, applied plant breeding, pathology and entomology, some of whom concentrate their work upon individual species, as peas, corn or beans.

As growers of vegetable seeds, we have long recognized the great importance of a sound breeding program and have kept pace with the progress of plant science by increasing the number of our research and breeding stations, and by establishing our central analytical and germination laboratory at New Haven, Conn. Our scientific staff has grown proportionately and now comprises 29 highly trained men and women, the majority being university graduates, including eight with the higher degrees, all of them having had years of experience in their particular fields.

Eight Asgrow breeding stations are now in operation, situated in as many different parts of the country, their locations having been determined by the needs of the species to be grown at each. For example one Asgrow breeding station is chiefly concerned with the maintenance of sweet corn inbreds in an environment similar to that in which they were originated. Another has as its major objective the production of strains or varieties of vegetables well adapted to the southern states.

The stations are charged primarily with the following duties:

- (1) The maintenance of high quality parent Asgrow stocks to be multiplied annually in seed crops destined for distribution to our customers.
- (2) The production of new or improved types to meet special needs. Taking at random a few from the many, examples are Clark's Bush Lima bean, Pride and Canner King peas, the Asgrow strain of Golden Cross Bantam, and Golden Hybrid No. 2439 sweet corn.
- (3) To cooperate with federal and state agricultural experiment stations.
- (4) To determine the value of new or improved strains for particular localities.
- (5) To render service to customers by the investigation of special problems or furnishing specific information.



Asgrow