

Cooperative Extension Service University of Illinois at Urbana-Champaign, College of Agriculture

Vegetable Planting Guide

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Even though seed packets often provide valuable information, the charts on the following pages will give you additional details about planting vegetable seeds and plants. Descriptions of the chart headings are as follows:

SEEDS OR PLANTS PER 100-FT. ROW is the recommended amount (or number) to use for proper spacing and good growth.

AVERAGE AMOUNT SUG-GESTED PER PERSON is based on fresh use and is just a guideline. If you plan to preserve during the season, you will need to plant more of that particular vegetable.

ESTIMATED YIELD is based on optimum growth. To ensure good yields, maintain fertility, provide adequate moisture, use mulches, control pests (weeds, insects and diseases), start with healthy plants and fresh seed, and use recommended varieties.

DISTANCES BETWEEN PLANTS AND BE-TWEEN ROWS are the recommended spacings that allow for optimum growth and development. Plants growing too closely together compete for fertilizer and moisture, which creates conditions ideal for disease problems. If seed is sown thickly, thin the seedling at the recommended distance once they are well above the ground.

Weather conditions can also greatly affect yields.

PLANTING DEPTH. A good rule of thumb is to plant the seed at a depth equivalent of 2 to 4 times their diameter. Cover small seeds with 1/4 to 1/2 inch of soil; place large seeds 1 to 2 inches deep.

FROST RESISTANCE. Vegetables are planted according to their ability to withstand frost and are classified into 4 general categories: Very hardy, Frost-tolerant, Tender, and Warmloving. The average date of the last 32°F freeze

in the spring in your area can help you determine planting time.

Very hardy (VH) vegetables can withstand freezing temperatures and hard frosts without injury. They may be planted as soon as the ground can be prepared usually 4 to 6 weeks before the approximate frost-free date in your area. The suggested planting times are as follows:

Southern Illinois—March 10 to 25 Central Illinois—March 25 to April 10 Northern Illinois—April 10 to 25

Frost-tolerant (FT) vegetables withstand light frosts and can be planted 2 to 3 weeks before the approximate frost-free date. Suggested planting times are as follows:

Southern Illinois—March 25 to April 10 Central Illinois—April 10 to 25 Northern Illinois—April 25 to May 10

Tender (T) vegetables are injured or killed by frost, and their seeds do not germinate well in cold soil. They are usually planted on or after the approximate frost-free date. Suggested planting times are as follows:

Southern Illinois—April 10 to 25 Central Illinois—April 25 to May 10 Northern Illinois—May 10 to 25

Warm-loving (WL) vegetables cannot tolerate cold. They require warm soils for germination and good growth, and should be planted 1 to 2 weeks after the approximate frost-free date. Suggested planting times are as follows:

Southern Illinois—April 25 to May 10 Central Illinois—May 10 to June 1 Northern Illinois—May 25 to June 1

APPROXIMATE DAYS TO HARVEST will vary with temperature and weather conditions. Use this number as a general guide (along with Horticulture Facts VC-11-80) to decide when a crop is likely to be ready for harvesting.

VEGETABLE PLANTING CHART

| Cucumber | Corn, Sweet | Collards | Chinese cabbage | Chard | Celery | Celeriac | Cauliflower | Carrot | Cabbage | Brussels sprouts | Broccoli | Beet della Hall | Bean, Pole | Bean, Bush (snap) | Bean, Bush (lima) | Asparagus | Artichoke, | Vegetable | |
|-----------------------------------|-------------------------------------|------------|-----------------|-----------|----------------|-------------|--------------|-------------|---------------|------------------|-------------|-----------------|-------------|-------------------|-------------------|-------------|--------------|---|--|
| 1 oz. | 4 oz. | 1/2 oz. | 1/2 oz. | 2 oz. | 150-200 plants | 200 plants | 50-75 plants | 1/4 oz. | 75-100 plants | 50 plants | 50 plants | 1 oz. | 1/2 lb. | 1/2 lb. | 1/2 lb. | 50 roots | 40-50 tubers | Seeds or plants per 100-ft. row | Amount to Plant |
| 2-3 hills | 15-25 ft. | 5-10 ft. | 5-10 ft | 5-10 ft | 4-6 plants | 5-10 ft. | 3-5 plants | 5-10 ft. | 3-5 plants | 3-5 plants | 5-10 plants | 5-10 ft. | 5-10 ft | 10-15 ft. | 10-15 fL | 10-15 roots | 5-10 ft. | Average amount suggested per person | Plant |
| 100-150 lb. | 100-150 lb. | 80-100 lb. | 200-300 lb. | 100 lb. | 200 lb. | 100-150 lb. | 80 lb. | 100-150 lb. | 150-200 lb. | 80-100 lb. | 80-100 lb. | 75 lb. | 50 lb. | 50 lb. | 30 lb. | 80-100 lb. | 150-200 lb. | Estimated yield per 100-ft. row ^a | VEGETAB F |
| 12 in. (single) 36 in. (hills) | 9-12 in. (single) 36 in. (hills) | 12-15 in. | 12-15 in. | 4-6 in. | 6-8 in. | 6 in. | 18-24 in. | 1-2 in. | 12-18 in. | 18-24 in. | 18-24 in. | 2-3 in. | 3-4 ln. | 3 in. | 3 in. | 18-24 in. | 24-30 in. | Distance between plants | VEGETABLE PLANTING CHART Planting Instructions |
| 48-72 in. | 24-48 in. | 18-24 in. | 24 in. | 18-24 in. | 24-36 in. | 18-24 in. | 24-36 in. | 12-18 in. | 18-30 in. | 30-36 in. | 30-36 in. | 12-18 in. | 30-36 in. | 18-24 in. | 18-24 in. | 36-60 in. | 36-48 in. | Distance between rows | RT HOM |
| 1/2 in. | 1/2-1 in. | 1/4 in. | 1/4 in. | 1/2 in. | Б | an figure | G | 1/4 in. | a ch | inri je o | ь | 1/2-1 in. | 1-1 1/2 tn. | 1-1 1/2 in. | 1-1 1/2 in. | 6-8 in. | 2-3 in. | Planting F depth res | s without t as the 6 weeks to ho your are as |
| WL | H | HA | FI | 7 | 7 | F | 7 | FT | FI | F | FI | T | T | Т | WL | HV | 7 | Frost resistance ^C | Tim |
| 60-70 | 70-90 | 70-80 | 80-90 | 50-60 | 100-110 | 100-120 | 60-65 | 65-75 | 70-80 | 70-80 | 70-80 | 55-65 | 60-70 | 50-60 | 50-60 | 2 years | 130-150 | Approx. number of days (or years) to harvest ^d | Time Required |

VEGETABLE PLANTING CHART

| | Amount to Plant | Plant | 10000 | Planting Instructions | | | Time Required | 2 2 |
|----------------|---------------------------------------|-------------------------------------|--|-------------------------------|-----------------------------|-------------------|---------------|---|
| Vegetable | Seeds or plants per 100-ft. row | Average amount suggested per person | Estimated yield per 100-ft. row ^a | Distance between plants | Distance between rows | Planting depth | 1 13 | Approx. number of frost days (or years) resistance ^C to harvest ^d |
| Eggplant | 50-75 plants or 1/8 oz. | 2-3 plants | 100-200 lb. | 18-24 in. | 30-36 in. | ь | | WL |
| Endive | 1/2 oz. | 3-5 ft. | 30-60 lb. | 9-12 in. | 18-24 in. | 1/4 in. | | HA |
| Kale | 1/2 oz. | 5-10 ft. | 40-60 lb. | 8-12 in. | 18-24 in. | 1/4 in. | | VH |
| Kohlrabi | 1/4 oz. | 3-5 ft. | 100 lb. | 2-5 In. | 18-24 in. | 1/4 in. | | VH |
| Lettuce, Leaf | 1/4 oz. | 5-10 ft. | 25-30 lb. | 4 加. | 12-18 in. | 1/4 ln. | | VH |
| Muskmelon | 1/4 oz. | 6-8 plants | 200 lb. | 8-10 in. | 48-72 in. | 1/2 in. | | WL |
| Mustard | 1/2 oz. | 5-10 ft. | 30-60 lb. | 2-4 in. | 12-18 in. | 1/4 in. | - 4 | HV |
| Okra | 2 oz. | 3-5 ft. | 50-100 lb. | 12-24 in. | 12-18 in. | 1/2 in. | 1 | WL |
| Onion (plants) | 300-400 plants | 12-15 ft. | 200 Љ. | 3-4 in. | 15-18 in. | ь | | FT |
| Onion (sets) | 3-4 lb. | 10-12 ft. | 100 Љ. | 1-2 in. | 15-18 in. | 2-3 in. | | HV |
| Onion (seed) | 1/4 oz. | 12-15 ft. | 150 lb. | 2-3 in. | 15-18 in. | 1/2 in. | _ | HV |
| Parsnip | 1/2 oz. | 10-15 ft. | 100 lb. | 2-4 in. | 18-24 in. | 1/2-3/4 in. | | FI |
| Pea | 1 lb. | 10-15 ft. | 25-30 lb. | 1-2 in. | 18-24 in. | 1 in. | | HV |
| Pepper | 50-75 plants | 2-3 plants | 75-100 lb. | 18-24 in. | 18-24 in. | ь | | WL |
| Potato, Irish | 10 lb. | 100-150 ft. | 100-200 lb. | 10-12 in. | 24-36 in. | 4 in. | | HA |
| Potato, Sweet | 75-100 plants | 10-20 plants | 80-100 lb. | 12-18 in. | 36-48 in. | ь | V | WL |
| Pumpkin | 1 oz. | 2-4 plants | 100-150 lb. | 48 in. | 84-120 in. | 1 1/2 in. | _ | WL |
| Radish | 1 oz. | 5-10 ft. | 50 lb. | 1/2-1 in. | 12-18 in. | 1/2-3/4 in. FT | n. H | 7 |

VEGETABLE PLANTING CHART

| | Amount to F | Amount to Plant | I was an an a | Planting Instructions | | | Time R | Time Required |
|----------------|---|-------------------------------------|--|---|-----------------------------|-------------------|-------------------------------|---|
| Vegetable | Seeds or plants per 100-ft, row | Average amount suggested per person | Estimated yield per 100-ft, row ^a | Distance between plants | Distance between rows | Planting depth | Frost resistance ^C | Approx. number of days (or years) to harvest ^d |
| Rhubarb | 25-30 plants | 3-5 plants | 150-200 lb. | 36-48 in. | 36-48 in. | 2 in. | HV | 2 years |
| Rutabaga | 1/8 oz. | 5-10 ft. | 80-100 lb. | 6 in. | 18-24 in. | 3/4-1 in. | HA | 90-100 |
| Salsify | I oz. | 5-10 ft. | 100-120 lb. | 3 in. | 24 in. | 1/4 in. | HA | 140-150 |
| Spinach | 1 oz. | 5-10 ft. | 40-60 lb. | 2-4 in. | 12-18 in. | 1/4 in. | HV | 35-45 |
| Squash, Summer | 1 oz. | 2-3 hills | 150-200 lb. | 24-36 in. (single) 48 in. (hills) | 36-48 in. | 1/2-1 in. | WL | 50-60 |
| Squash, Winter | l oz. | 3-5 hills | 200 lb. | 24-36 in. (single) 48 in. (hills) | 84-120 in. | 1/2-1 in. | WL | 80-120 |
| Tomato | 50-75 (staked) 30-50 (caged or groundbed) | 6-8 plants | 200-300 lb. | 18-24 in. (staked) 24-36 in. (caged or groundbed) | 36-60 in. | D INST | T | 70-90 |
| Turnip | 1/2 oz. | 5-10 ft. | 100-120 lb. | 2-4 in. | 12-18 in. | 1/4 in. | VH | 40-60 |
| Watermelon | 1 oz. | 3-5 hills | 200-300 lb. | 24-36 in. (single) 72 in. (hills) | 84-120 in. | 1 1/2 in. | WL | 70-90 |
| Per 11 Tel 1 | the shade the small to | arr with soil type f | ertility, culture | are the first of the will warry with soil type fertility, culture, weather, and growing conditions. | conditions. | | | |

aylelds listed are estimated; they will vary with soil type, fertility, culture, weather, and growing co

bNormally set in garden as transplants. Plant at same depth as they were in the container.

CIndicates whether vegetable is very hardy (VH), frost-tolerant (FT), tender (T), or warm-loving (WL). See page 1.

dAlso an estimate: days (or years) to harvest vary with variety, weather, and growing conditions.