

## Appendix E—Planting Guides

The Vegetable Planting Guide can be used to determine the approximate proper amount of crop to plant for the desired yield, the amount of seed or transplants required for that amount of crop, and proper spacing between plants in a row. In intensive, raised-bed gardens, use the in-row figures between all plants; i.e., use equidistant spacing between plants. Sow seeds to a depth three to five times the diameter of the seed. For mid- summer plantings, sow up to twice this depth.

Crop	Planting Distance in Feet or Inches		Approximate yield per 10 feet of row	Approximate no. of row feet to plant per person	Transplants or seed per 10 feet of row	
	In Rows	Between Rows			No. of Plants	Amt of Seed
Asparagus	18"	48-60"	3-4 lbs.	15-20'	7-8 crowns	
Beans, bush	1-2"	24-30"	3-5 lbs.	20-50'		1 oz.
Beans, pole	4-12"	36-48"	6-10 lbs.	10-30'		1 oz.
Beans, lima	3-4"	24-36"	3-5 lbs.	20-30'		1 oz.
Beans, wax	2"	24-36"	3-5 lbs.	20-50'		1/8 oz.
Beets	2-3"	12-24"	8-10 lbs.	10'		1/8 oz.
Broccoli	15-24"	24-36"	4-6 lbs.	10-20'	5-8 or	1/10 oz.
Brussels Sprouts	18-24"	30-36"	3-4 lbs.	10'	5-7 or	1/10 oz.
Cabbage	15-18"	30-36"	10-25 lbs.	10-15'	5-8 or	1/10 oz.
Chinese Cabbage	12-24"	18-30"	20-30 lbs.	10-15'	8-12 or	1/5 oz.
Carrots	1-2"	15-30"	7-10 lbs.	10-20'		1/5 oz.
Cauliflower	14-24"	24-36"	8-10 lbs.	10-15'	5-8 or	1/10 oz.
Chard, Swiss	6-12"	18-30"	8-12 lbs.	5-10'		1/5 oz.
Collards	18-24"	24-36"	8-15 lbs.	10-15'	5-7 or	1/10 oz.
Cucumbers	12-18"	48-72"	8-10 lbs.	15-20'		1/10 oz.
Eggplant	18-24"	30-42"	10-12 lbs.	3-6'	5-7 or	1/40 oz.
Endive	9-12"	18-30"	3-6 lbs.	5-10'	5-10 or	1/40 oz.
Kale	10-18"	18-36"	4-8 lbs.	10-15'	6-10 or	1/10 oz.
Kohlrabi	4-6"	12-36"	4-8 lbs.	5-10'		1/10 oz.

<b>Crop</b>	<b>Planting Distance</b>	<b>Approximate yield per 10 feet of row</b>	<b>Approximate no. of row feet to plant per person</b>	<b>Transplants or seed per 10 feet of row</b>		
	<b>In Rows</b>	<b>Between Rows</b>			<b>No. of Plants</b>	<b>Amt of Seed</b>
Leeks	3-6"	12-30"	10-20 lbs.	3-6'		1/10 oz.
Lettuce (Bibb)	6-10"	14-24"	4-8 lbs.	15-20'		1/40 oz.
Lettuce (leaf)	4-6"	12-18"	5-10 lbs.	10-15'		1/40 oz.
Muskmelons	24-36"	60-90"	15-25 lbs.	8-12'	3-5 or	1/8 oz.
Mustard	3-4"	18-30"	3-6 lbs.	5-10'		1/10 oz.
Okra	12-18"	36-48"	5-10 lbs.	5-10'	7-10 or	1/5 oz.
Onions (sets)	2-4"	12-24"	7-10 lbs.	15-25'	30-60	1 lb.
Peas (English)	1-3"	12-30"	2-6 lbs.	40-60'		1/2 oz.
Peppers	18-24"	30-36"	5-18 lbs.	5-10'	5-7	NA
Potatoes, Irish	10-21"	24-36"	10-20 lbs.	75-100'		1 lb.
Pumpkins	4-7'	6-8'	10-20 lbs.	10'		1/20 oz.
Rutabaga	3-6"	15-30"	8-12 lbs.	5-10'		1/8 oz.
Southern Peas	2-4"	24-30"	5-18 lbs.	25-30'		1 oz.
Sweet Corn	9-12"	24-36"	7-10 lbs.	40-60'		1/2 oz.
Spinach	3-6"	15-30"	4-6 lbs.	30-40'		1/8 oz.
Squash, summer	24-36"	36-60"	20-80 lbs.	5-10'		1/10 oz.
Squash, winter	3-7'	3-10'	10-80 lbs.	10'		1/10 oz.
Sweet Potatoes	12-18"	36-48"	8-12 lbs.	75-100'	7-10	NA
Tomatoes	18-36"	36"	15-45 lbs.	10-15'	3-7	NA
Turnips	2-3"	12-24"	8-12 lbs.	10'		1/8 oz.
Watermelons	6-8'	7-10'	8-40 lbs.	10-15'	1-2	1/2 oz.

## GardenSeeds.com - Useful Planting Information

Variety - Type	Planting Rate Seed Needed		Estimate # of seeds per oz	Planting Distance		Depth to plant inches	Time to mature Days
	100' Row	Acre		In Rows	Space Rows		
<a href="#">Beans, Pole</a>	1/2-1 lbs.	30-40 lbs.	60-100	3-8"	36-48"	1-1.5	50-70
<a href="#">Beans, Snap</a>	1-2 lbs.	60-100 lbs.	100	1-4"	18-40"	1-1.5	40-60
<a href="#">Beans Bush Lima</a>	1-2 lbs.	30-50 lbs.	25-60	6-8"	18-30"	1-1.5	40-65
<a href="#">Beets, Mono-germ</a>	1-1.5 oz.	5-10 lbs.	800-1000	1-2"	18-24"	1/2	55-75
<a href="#">Beets, Multi-germ</a>	2 oz.	8-24 lbs.	1,500	1-4"	18-24"	1/2	58-80
<a href="#">Broccoli*</a>	1/2 oz.	1/4 lb.	9,000	18-24"	2-3'	1/4	100-130
<a href="#">Brussels Sprouts</a>	1/2 oz.	1/4 lb.	8,000	18-24"	24-30"	1/4	150
<a href="#">Cabbage*</a>	1/2 oz.	1/4 lb.	8,500	8-30"	2-3'	1/4	65-120
<a href="#">Cabbage**</a>	1/2 oz.	1-3 lbs.	8,500	8-30"	2-3'	1/4	75-120
<a href="#">Cabbage, Chinese</a>	1/2 oz.	3-4 lbs.	17,000	12-18"	2-3'	1/4	79-80
<a href="#">Carrot</a>	1/2 oz.	2-5 lbs.	25,000	1-3"	18-24"	1/2	100-120
<a href="#">Cauliflower</a>	1/4 oz.	1/4 lb.	10,000	18-24"	2-3'	1/4	120-150
<a href="#">Collards</a>	1/2 oz.	3-4 lbs.	8,000	4-8"	18-24"	1/4	60-80
<a href="#">Celery***</a>	1/4 oz.	1/4 lb.	60,000	6"	2-3'	1/8	100-130
<a href="#">Cucumber</a>	1 oz.	3 lbs.	1000	1-3'	3-6'	1	60-90
<a href="#">Egg Plant****</a>	1/4 oz.	1/4 lb.	6,000	18-24"	2-3'	1/2	120-130
<a href="#">Endive</a>	1 oz.	4 lbs.	25,000	8-12"	18-24"	1/2	85-100
<a href="#">Kale</a>	1/2 oz.	4 lbs.	7,500	12-24"	18-24"	1/2	50-60
<a href="#">Kohl Rabi</a>	1/2 oz.	4 lbs.	8,000	6-8"	18-24"	1/2	50-60
<a href="#">Lettuce</a>	1/4 oz.	3-4 lbs.	25,000	6-12"	18-24"	1/8	60-90
<a href="#">Musk Melons</a>	1 oz.	3 lbs.	1200	3-4"	6-8"	1	85-100
<a href="#">Mustard</a>	1 oz.	5 lbs.	15,000	4-6"	6-8'	1/4	50-70
<a href="#">Okra</a>	2 oz.	8 lbs.	500	18-24"	2-3'	1	50-60
<a href="#">Onions, Green</a>	1 oz.	3-4 lbs.	8,000	2-3'	15-30"	1/2	60-90
<a href="#">Onions, Dry</a>	1 oz.	3-4 lbs.	8,000	2-3"	15-30"	1/2	140-180
<a href="#">Parsley</a>	3/4 oz.	4 lbs.	15,000	4-8"	12-18"	1/4	90
<a href="#">Parsnip</a>	1 oz.	4 lbs.	10,000	3-6"	18-24"	3/4	120
<a href="#">Peas (Rows)</a>	2 lbs.	90-150 lbs.	90-150	2-3"	2-3'	1.5-2	60-120
<a href="#">Peas (Broadcast)</a>	---	200-250 lb.	90-150	---	---	1.5-2	60-120
<a href="#">Pepper***</a>	1/8 oz.	6 oz.	4,000	15-20"	18-30"	1/4	75-120
<a href="#">Pepper**</a>	1/2 lb.	2 lbs.	4,000	15-20"	18-30"	1/4	75-120
<a href="#">Pumpkin</a>	1 oz.	3 lbs.	4,000	15-20"	18-30"	1/4	75-120
<a href="#">Radish</a>	1 oz.	10-12 lbs.	2,500	.5-1"	12-18"	1/2	28-36
<a href="#">Rutabaga</a>	1/2 oz.	2-4 lbs.	10,000	6-8"	18-24"	1/2	70-100
<a href="#">Spinach</a>	1 oz.	10-15 lbs.	2,500	3-4"	12-18"	1/2-3/4	40-65
<a href="#">Squash, Summer</a>	2 oz.	4-6 lbs.	300	3-4'	3-4'	1&1/2	60-75
<a href="#">Squash, Winter</a>	1 oz.	3-4 lbs.	100	4-6'	6-8'	1&1/2	75-100
<a href="#">Sweet Corn</a>	1/2 oz.	1.5-2 lbs.	11,000	1.5-6'	3-7'	1/4	60-90
<a href="#">Tomato**</a>	1/4 oz.	1/4 lb.	11,000	2-4'	3-4'	1/4	60-90
<a href="#">Tomato***</a>	1/4 oz.	1/4 lb.	11,000	2-4'	3-4'	1/4	60-90
<a href="#">Turnip</a>	3/4 oz.	2 lbs.	10,000	3-4"	15-24"	1/4-1/2	45-60
<a href="#">Watermelon</a>	1 oz.	2-4 lbs.	200-300	6-8'	8'	1-2	80-90

\* = Usually started indoors in early spring and transplanted. Planting rate based on that method.

\*\* = Columns 1 & 2 for planting rate based on direct seeding.

\*\*\* = Transplanted

**Planting Notes:** Seeding rates and spacing recommended above are, for the most part, figured on the basis of harvest by hand. High density planting rates and precision seed placement is now used on most mechanically harvested and grown vegetable crops. Different seeding rates would apply to those methods of propagation. The effect of arrangement and plant density in relation to fruit size, quality and total yield will vary depending on your local environmental conditions during the planting, growing and harvest seasons. Plant density must depend greatly on available planting and harvesting equipment. Seeding rates should depend in part on the total seed count (per oz/lb.) of seed in the particular lot being used, taking in to account the germination rate.

### **Approximate Yield for Vegetable Crops per 15 ft row:**

Asparagus - 4.5 Lbs	Lettuce, head - 7 Lbs
Bean, lima (bush) - 4 Lbs	Lettuce, leaf - 7 Lbs
Bean, snap (bush) - 15 Lbs	Muskmelon - 15 Lbs
Beets 20 Lbs	Mustard greens - 11 Lbs
Broccoli - 11 Lbs	Okra - 16 Lbs
Carrot - 20 Lbs	Onion, bulb - 17 Lbs
Cabbage - 22.5 Lbs	Pea - 3 Lbs
Cauliflower - 15 Lbs	Pepper, bell - 20 Lbs
Chard - 11 Lbs	Potato, sweet - 30 Lbs
Corn - 18 (ears) Lbs	Potato, white - 36 Lbs
Cucumber, slicing - 21 Lbs	Spinach - 10 Lbs
Cucumber, pickling - 27 Lbs	Squash, summer - 52 Lbs
Garlic - 6 Lbs	Squash, winter - 45 Lbs
Eggplant - 15 Lbs	Tomato - 42 Lbs
Kohlrabi - 6 Lbs	Turnip - 27 Lbs