

Plant spacing chart

How far apart rows and plants go, how many fit on a square metre and how many go into one 30 × 30 cm square.

“–” means our sources give no value for it.

Plant	Between rows	In the row	Per m ²	Per square	Source
Fruiting vegetables · 10					
Aubergine (eggplant)	61 cm (24 in)	61 cm (24 in)	2.7	1 plant	USU Extension
Cape gooseberry	90 cm (35 in)	45 cm (18 in)	2.5	–	Purdue NewCROP
Chilli pepper	61–76 cm (24–30 in)	20–36 cm (8–14 in)	8.2	1 plant	NMSU Guide H-240
Cucumber	–	30 cm (12 in)	–	2 plants	Bayerische Gartenakademie (LWG)
Melon	122–183 cm (48–72 in)	61 cm (24 in)	1.3	1 plant per 2 squares	USU Extension
Pumpkin and winter squash	122–183 cm (48–72 in)	61–91 cm (24–36 in)	1.3	–	USU Extension
Sweet pepper	60 cm (24 in)	40 cm (16 in)	4.2	1 plant	Bayerische Gartenakademie (LWG)
Sweetcorn	61–76 cm (24–30 in)	18–23 cm (7–9 in)	9.1	3 plants	USU Extension
Tomato	80 cm (31 in)	50 cm (20 in)	2.5	1 plant per 4 squares	Bayerische Gartenakademie (LWG)
Zucchini (courgette)	80 cm (31 in)	80 cm (31 in)	1.6	1 plant per 9 squares	Bayerische Gartenakademie (LWG)
Beans and peas · 6					
Broad bean (fava bean)	45 cm (18 in)	15–23 cm (6–9 in)	14.8	1 plant	RHS
Bush bean	40 cm (16 in)	6 cm (2 in)	41.7	9 plants	Bayerische Gartenakademie (LWG)
Pea	30–61 cm (12–24 in)	3–5 cm (1–2 in)	111.1	8 plants	USU Extension
Pole bean	61–91 cm (24–36 in)	10–20 cm (4–8 in)	16.4	8 plants	University of Maryland Extension
Runner bean	45–60 cm (18–24 in)	15–30 cm (6–12 in)	14.8	–	RHS
Sugar snap and snow pea	46 cm (18 in)	3–8 cm (1–3 in)	72.5	8 plants	University of Maryland Extension
Cabbages and turnips · 12					
Broccoli	76 cm (30 in)	38 cm (15 in)	3.5	1 plant	USU Extension
Brussels sprouts	60 cm (24 in)	60 cm (24 in)	2.8	1 plant per 2 squares	RHS
Cauliflower	76 cm (30 in)	38 cm (15 in)	3.5	1 plant	USU Extension
Chinese cabbage	40 cm (16 in)	35 cm (14 in)	7.1	–	Bayerische Gartenakademie (LWG)
Kale	61 cm (24 in)	30 cm (12 in)	5.5	1 plant	USU Extension
Kohlrabi	25 cm (10 in)	20 cm (8 in)	20	4 plants	Bayerische Gartenakademie (LWG)
Pak choi	30 cm (12 in)	28 cm (11 in)	11.9	–	RHS
Red cabbage	–	38 cm (15 in)	–	–	RHS
Savoy cabbage	–	38 cm (15 in)	–	–	RHS
Swede (rutabaga)	38 cm (15 in)	23 cm (9 in)	11.4	4 plants	RHS
Turnip	13 cm (5 in)	13 cm (5 in)	59.2	4 plants	Colorado State University Extension, GardenNotes #720
White cabbage	50 cm (20 in)	50 cm (20 in)	4	1 plant	Bayerische Gartenakademie (LWG)
Roots and tubers · 10					
Beetroot	30 cm (12 in)	10 cm (4 in)	33.3	9 plants	RHS Grow your own
Black salsify	20–30 cm (8–12 in)	15 cm (6 in)	33.3	–	Garden Organic
Carrot	25 cm (10 in)	–	–	16 plants	Bayerische Gartenakademie (LWG)
Celeriac	40–45 cm (16–18 in)	30 cm (12 in)	8.3	–	RHS Grow your own

Plant	Between rows	In the row	Per m ²	Per square	Source
Hamburg parsley	20 cm (8 in)	5–8 cm (2–3 in)	100	–	Sächsische Landesanstalt für Landwirtschaft
Parsnip	30 cm (12 in)	15 cm (6 in)	22.2	16 plants	RHS Grow your own
Potato	76–91 cm (30–36 in)	25–30 cm (10–12 in)	5.3	1 plant	USU Extension
Radish	15 cm (6 in)	4 cm (2 in)	166.7	16 plants	Bayerische Gartenakademie (LWG)
Sweet potato	91–122 cm (36–48 in)	30 cm (12 in)	3.7	1 plant	USU Extension
Winter radish (daikon)	15 cm (6 in)	18 cm (7 in)	37	–	RHS
Onions and leeks · 5					
Garlic	30 cm (12 in)	15 cm (6 in)	22.2	–	RHS Grow your own
Leek	30 cm (12 in)	15 cm (6 in)	22.2	4 plants	Bayerische Gartenakademie (LWG)
Onion	25 cm (10 in)	5 cm (2 in)	80	4 plants	Bayerische Gartenakademie (LWG)
Shallot	25–30 cm (10–12 in)	15–20 cm (6–8 in)	26.7	–	RHS Grow your own
Spring onion (scallion)	30–46 cm (12–18 in)	3 cm (1 in)	111.1	16 plants	Cornell Home Gardening
Salads and leafy greens · 12					
Butterhead lettuce	25 cm (10 in)	25 cm (10 in)	16	4 plants	Bayerische Gartenakademie (LWG)
Celery	23 cm (9 in)	23 cm (9 in)	18.9	–	RHS Grow your own
Endive	30 cm (12 in)	23–38 cm (9–15 in)	14.5	–	RHS Grow your own
Florence fennel	30 cm (12 in)	30 cm (12 in)	11.1	–	RHS Grow your own
Garden cress	25 cm (10 in)	–	–	–	Bayerische Gartenakademie (LWG)
Iceberg lettuce	46 cm (18 in)	30 cm (12 in)	7.2	–	Cornell Home Gardening
Lamb's lettuce (corn salad)	10 cm (4 in)	–	–	–	Bayerische Gartenakademie (LWG)
Loose-leaf lettuce	25 cm (10 in)	25 cm (10 in)	16	4 plants	LfULG Sachsen
Radicchio	30 cm (12 in)	30 cm (12 in)	11.1	–	RHS Grow your own
Rocket (arugula)	20 cm (8 in)	–	–	–	Bayerische Gartenakademie (LWG)
Spinach	20 cm (8 in)	10 cm (4 in)	50	9 plants	Bayerische Gartenakademie (LWG)
Swiss chard	45 cm (18 in)	30 cm (12 in)	7.4	–	RHS Grow your own
Herbs · 15					
Basil	46 cm (18 in)	30 cm (12 in)	7.2	2 plants	University of Maryland Extension
Borage	46 cm (18 in)	30 cm (12 in)	7.2	–	University of Maryland Extension
Chervil	30 cm (12 in)	15 cm (6 in)	22.2	–	RHS Grow your own
Chives	30 cm (12 in)	30 cm (12 in)	11.1	2 plants	University of Maryland Extension
Coriander (cilantro)	38 cm (15 in)	5 cm (2 in)	52.6	9 plants	Utah State University Extension
Dill	30 cm (12 in)	23 cm (9 in)	14.5	4 plants	Utah State University Extension
Lavender	–	46 cm (18 in)	–	1 plant	Utah State University Extension
Lemon balm	–	46 cm (18 in)	–	–	Utah State University Extension
Mint	–	46 cm (18 in)	–	–	University of Maryland Extension
Oregano	–	20 cm (8 in)	–	1 plant	RHS Grow your own
Parsley	20–30 cm (8–12 in)	15–30 cm (6–12 in)	33.3	4 plants	RHS Grow your own
Rosemary	–	45 cm (18 in)	–	–	RHS Grow your own
Sage	46 cm (18 in)	30 cm (12 in)	7.2	–	Johnny's Selected Seeds
Summer savory	–	20 cm (8 in)	–	–	RHS Grow your own
Thyme	–	20 cm (8 in)	–	–	RHS Grow your own

Plant	Between rows	In the row	Per m ²	Per square	Source
Flowers · 5					
French marigold (tagetes)	30 cm (12 in)	30 cm (12 in)	11.1	4 plants	Mississippi State University Extension
Nasturtium	–	25 cm (10 in)	–	–	UW–Madison Extension Horticulture
Pot marigold (calendula)	–	20 cm (8 in)	–	–	Utah State University Extension
Sunflower	61 cm (24 in)	30 cm (12 in)	5.5	–	UGA Extension C 1121
Sweet alyssum	–	18 cm (7 in)	–	–	Johnny's Selected Seeds
Green manure · 4					
Buckwheat	15 cm (6 in)	–	–	–	SARE, Managing Cover Crops Profitably
Oilseed radish	–	–	–	–	–
Phacelia	–	–	–	–	–
White mustard	–	–	–	–	–
Perennials · 6					
Asparagus	122 cm (48 in)	30 cm (12 in)	2.7	–	USU Extension
Globe artichoke	–	75 cm (30 in)	–	–	RHS Grow your own
Horseradish	–	30 cm (12 in)	–	–	USU Extension
Jerusalem artichoke	100 cm (39 in)	30 cm (12 in)	3.3	–	RHS Grow your own
Rhubarb	122 cm (48 in)	91 cm (36 in)	0.9	–	USU Extension
Strawberry	75 cm (30 in)	35–40 cm (14–16 in)	3.8	–	RHS

Sources

The titles are links. Every value with its source is also online: www.beetfox.com/plant-spacing-chart

- Bayerische Gartenakademie (LWG): Sä- und Pflanztermine auf einen Blick (2018)
- USU Extension: How to Grow Tomatoes in Your Garden
- RHS: How to grow tomatoes
- Phipps Conservatory and Botanical Gardens: Square Foot Gardening Guide (2020)
- USU Extension: How to Grow Peppers in Your Garden
- RHS: How to grow sweet peppers
- NYC Parks GreenThumb: Square Foot Gardening (Growing Veggies in NYC Training)
- NMSU Guide H-240: Growing Chile Peppers in New Mexico Gardens
- RHS: How to grow chilli peppers
- USU Extension: How to Grow Eggplant in Your Garden
- RHS: How to grow aubergines
- Purdue NewCROP: Cape Gooseberry (aus Morton, Fruits of Warm Climates, 1987)
- USU Extension: How to Grow Cucumber in Your Garden
- USU Extension: How to Grow Summer and Winter Squash in Your Garden
- RHS: How to grow courgettes
- USU Extension: How to Grow Pumpkins in Your Garden
- RHS: How to grow pumpkins
- USU Extension: How to Grow Cantaloupe (Muskmelon) in Your Garden
- RHS: How to grow melons
- USU Extension: How to Grow Sweet Corn in Your Garden
- RHS: How to grow sweetcorn
- University of Maryland Extension: Growing Beans in a Home Garden
- RHS: How to grow French beans
- RHS: How to grow runner beans
- USU Extension: How to Grow Peas in Your Garden
- RHS: How to grow peas
- University of Maryland Extension: Growing Green Peas in a Home Garden
- RHS: How to grow broad beans
- Johnny's Selected Seeds: Fava Bean – Key Growing Information
- USU Extension: How to Grow Cabbage in Your Garden
- Colorado State University Extension, GardenNotes #720: Vegetable Planting Guide
- UC Cooperative Extension Master Gardeners Tulare & Kings: Square Foot Gardening Plant & Seed Spacing
- RHS: How to grow cabbages
- USU Extension: How to Grow Cauliflower in Your Garden
- Virginia Cooperative Extension: Virginia's Home Garden Vegetable Planting Guide (426-331/SPES-673P), Table 5
- USU Extension: Broccoli in the Garden
- RHS: How to grow Brussels sprouts
- USU Extension: How to Grow Kale in Your Garden
- Natural History Museum of Los Angeles County: Garden Planning Cards
- USU Extension: How to Grow Kohlrabi in Your Garden
- Bayerische Gartenakademie (LWG): Merkblatt 2111 Fruchtfolge für Gemüsebeete (Oktober 2016)
- RHS: How to grow Chinese cabbage
- SARE: Northeast Crop Production & Harvest Manual – Bok Choy and Chinese Cabbage
- RHS: How to grow pak choi
- Kentucky State University Cooperative Extension: Bok Choy Fact Sheet (2025)
- RHS: How to grow swedes
- USU Extension: How to Grow Rutabagas and Turnips in Your Garden
- USU Extension: How to Grow Radishes in Your Garden
- RHS: How to grow radishes
- UMN Extension: Growing radishes
- USU Extension: How to Grow Potatoes in Your Garden
- RHS: How to grow potatoes
- USU Extension: How to Grow Sweet Potatoes in Your Garden
- RHS: How to grow sweet potatoes
- RHS Grow your own: Carrots
- USU Extension: Carrots in the Garden
- UC Cooperative Extension Master Gardeners Tulare-Kings: How to Square Foot Garden
- RHS Grow your own: Parsnips
- USU Extension: Parsnips in the Garden
- Sächsische Landesanstalt für Landwirtschaft: Der Pillnitzer Kräutergarten
- RHS Grow your own: Celeriac
- Cornell Home Gardening: Growing Guide Celeriac
- RHS Grow your own: Beetroot
- USU Extension: Beets in the Garden
- Garden Organic: How to grow salsify & scorzonera
- USU Extension: Black Salsify in the Garden
- RHS Grow your own: Onions (Steckzwiebeln)
- UMN Extension: Growing onions (Saat)
- RHS Grow your own: Shallots (Steckzwiebeln)
- Cornell Home Gardening: Growing Guide Shallots (Steckzwiebeln)
- Cornell Home Gardening: Growing Guide Onions
- Cornell Home Gardening: Growing Guide Leeks
- RHS Grow your own: Garlic
- Cornell Home Gardening: Growing Guide Garlic

75. LfULG Sachsen: Gartensalate – Anbau im Haus- und Kleingarten
76. RHS Grow your own: Lettuce
77. Cornell Home Gardening: Growing Guide Lettuce
78. RHS Grow your own: Endive
79. Cornell Home Gardening: Growing Guide Endive
80. RHS Grow your own: Chicory
81. USU Extension: Chicory in the Garden
82. USU Extension: Lamb's Lettuce in the Garden
83. RHS: How to grow rocket
84. RHS Grow your own: Spinach
85. USU Extension: Spinach in the Garden
86. RHS Grow your own: Chard
87. USU Extension: Swiss Chard in the Garden
88. RHS Grow your own: Celery
89. USU Extension: Celery in the Garden
90. RHS Grow your own: Florence fennel
91. USU Extension: Fennel in the Garden
92. RHS Grow your own: Parsley
93. UMN Extension: Growing parsley
94. Utah State University Extension: Dill in the Garden
95. RHS Grow your own: Dill
96. Phipps Conservatory: Square Foot Gardening (PDF)
97. Utah State University Extension: Cilantro/Coriander in the Garden
98. University of Maryland Extension: Cilantro
99. RHS Grow your own: Chervil
100. University of Maryland Extension: Chervil
101. University of Maryland Extension: Chives
102. Utah State University Extension: Chives in the Garden
103. University of Maryland Extension: Growing Basil in a Home Garden
104. Bayerische Gartenakademie (LWG), Merkblatt 2151: Basilikum
105. RHS Grow your own: Savory
106. Johnny's Selected Seeds: Summer Savory – Key Growing Information
107. RHS Grow your own: Thyme
108. Johnny's Selected Seeds: Thyme – Key Growing Information
109. RHS Grow your own: Oregano
110. University of Maryland Extension: Oregano
111. Johnny's Selected Seeds: Sage – Key Growing Information
112. University of Maryland Extension: Mint
113. Utah State University Extension: Mint in the Garden
114. Utah State University Extension: Lemon Balm in the Garden
115. Johnny's Selected Seeds: Lemon Balm – Key Growing Information
116. RHS Grow your own: Rosemary
117. Johnny's Selected Seeds: Rosemary from Seed – Key Growing Information
118. Utah State University Extension: English Lavender in the Garden
119. Johnny's Selected Seeds: Lavender – Key Growing Information
120. University of Maryland Extension: Borage
121. Johnny's Selected Seeds: Borage – Key Growing Information
122. Utah State University Extension: Calendula in the Garden
123. Mississippi State University Extension: Marigolds (*Tagetes erecta*) for the Farmer Florist
124. UW–Madison Extension Horticulture: Nasturtium, *Tropaeolum majus*
125. UGA Extension C 1121: Growing Sunflowers in the Home Garden
126. Oregon State University Extension: Sunflowers
127. Johnny's Selected Seeds: Sweet Alyssum Flower Seed
128. SARE, Managing Cover Crops Profitably: Buckwheat
129. RHS: How to grow strawberries
130. Bayerische Gartenakademie (LWG), Infoschrift 3182: Erdbeeren
131. USU Extension: How to Grow Rhubarb in Your Garden
132. RHS: How to grow rhubarb
133. USU Extension: How to Grow Asparagus in Your Garden
134. RHS: How to grow asparagus
135. USU Extension: How to Grow Horseradish in Your Garden
136. RHS Grow your own: Jerusalem artichokes
137. University of Saskatchewan Gardening: Jerusalem artichokes
138. RHS Grow your own: Globe artichokes
139. Utah State University Extension: Artichoke in the Garden