

# Planting Guide

Variety	Average number of seeds per 100g	Average seeding rate per ha in kg	Planting distances in cm		Average planting depth in cm	Approximate days to emergence	Average time to commercial maturity	Estimated yield per ha	Optimum pH	Soil type	General
			Within rows	Between rows							
Asparagus	210.000	7 2 - 4*	30 - 45	70 - 90	3,5	15	3 - 4 years	6 mt	6,5 - 7,5	Deep sandy silt loams	Bed life 10 - 13 years
Beans (bush)	300	90 - 100	5 - 8	45 - 60	2,5 - 5	6	40 - 60 d.	8 - 15 mt	5,6 - 6,8	Well drained loams	Optimum temperature range 20 - 30°C
Beans (dry shelling)	250	90 - 100	5 - 8	45 - 60	2,5 - 5	6	70 - 90 d.	1 - 3 mt	5,6 - 6,8	Well drained loams	Optimum temperature range 20 - 30°C
Beans (pole)	260	90 - 100	10 - 15	80 - 120	2,5 - 5	6	60 - 70 d.	12 - 20 mt	5,6 - 6,8	Well drained loams	Optimum temperature range 20 - 30°C
Beetroot	5.600	12 - 20	7 - 10	30 - 60	2 - 2,5	7	50 - 40 d.	20 - 40 mt	6,0 - 6,8	Rich sandy loams	Avoid moisture stress
Broad beans	100	150 - 200	10 - 20	40 - 60	2,5 - 5	8	70 - 80 d.	1,5 - 3 mt	5,6 - 6,8	Well drained loams	Avoid excessive temperatures
Broccoli	28.000	2,2 0,3*	25 - 40	45 - 60	1,5	7	70 - 80 d.**	12 - 18 mt	6,2 - 6,8	Well drained medium soils	Avoid excessive heat
Brussels Sprouts	28.000	2,2 0,3*	35 - 45	45 - 60	1,5	8	85 - 90 d.**	7 - 15 mt	6,0 - 6,8	Well drained organic soils	Avoid excessive heat
Cabbage	28.000	2,2 - 2,8 0,3*	40 - 60	50 - 70	1	8	60 - 100 d.**	20 - 50 mt	6,0 - 6,8	Well drained organic soils	Regular crop rotation essential
Chinese cabbage	28.000	1,5 - 2,5 0,3*	30 - 50	50 - 60	1	8	65 - 70 d.**	20 mt	6,0 - 6,8	Well drained organic soils	Regular crop rotation essential
Carrot	65.000	3 - 4	3 - 5	30 - 45	1,5	8	65 - 90 d.	20 - 60 mt	5,5 - 6,8	Free draining soils	Must be cultivated deeply
Cauliflower	30.000	2,2 0,3*	40 - 50	45 - 60	1,5	8	55 - 80 d.**	20 - 30 mt	6,0 - 6,8	Well drained medium soils	Avoid excessive heat
Celery	250.000	1,5 0,3*	15 - 20	60 - 75	0,5	20	60 - 100 d.**	30 - 60 mt	6,0 - 6,8	Well drained organic soils	Requires plenty of nitrogen and moisture
Chive	42.000	25 - 30	2,5 - 5	30 - 40	1,5	10	60 - 90 d.	5 - 8 mt	6,0 - 6,8	Adapted to many soil types	Crop rotation preferred
Cucumber	3.500	3 - 5	25 - 30	100 - 150	2,5 - 5	7	50 - 70 d.	20 - 30 mt	5,5 - 6,8	Friable well drained loams	Regular crop rotation essential
Eggplant	22.000	2 - 3 0,3*	40 - 50	75 - 90	0,5 - 1,5	10	65 - 85 d.**	15 - 30 mt	5,5 - 6,8	Friable loams	Requires long, warm growing season
Kale	30.000	3,5	40 - 50	45 - 60	1,5	10	70 - 80 d.	20 mt	6,0 - 6,8	Well drained organic soils	Hardy crop
Kohlrabi	32.000	4,5	15 - 20	30 - 40	1,5	6	55 - 60 d.	15 - 40 mt	6,0 - 6,8	Well drained loams	Regular crop rotation essential
Leek	32.000	4,5 3*	10 - 15	30 - 45	1,5 - 2,5	7	135 - 155 d.**	20 - 30 mt	6,0 - 6,8	Well drained friable loams	Crop rotation preferred
Lettuce	85.000	2 - 3 0,90*	20 - 30	30 - 45	1,5	7	45 - 75 d.**	15 - 30 mt	6,0 - 6,8	Well drained soils must hold water well	Regular crop rotation essential
Melon	3.500	4 - 6	50 - 60	120 - 150	2,5 - 5	6	75 - 105 d.	20 - 35 mt	5,5 - 6,8	Well structured soils	Requires long, warm growing season
Okra	1.800	8 - 10	40 - 60	60 - 90	2,5	10	53 - 60 d.	12 mt	6,0 - 6,8	Fertile well drained soils	Requires long, warm growing season
Onion	28.000	5 - 8	5 - 10	30 - 45	2,5	10	130 - 190 d.	25 - 30 mt	6,0 - 6,8	Free draining friable loams	Crop rotation preferred
Parsley	55.000	10 - 20	5 - 7	20 - 30	0,3	20	65 - 75 d.	10 - 20 mt	5,5 - 6,8	Sandy and silt loams	Hardy but sensitive to heat
Peas	600	100 - 180	3 - 8	45 - 60	2,5 - 5	8	60 - 75 d.	1,5 - 5 mt	5,5 - 6,8	Silt loams	Need constant moisture to mature
Pepper	14.000	2 - 4 0,8*	35 - 45	45 - 90	0,5 - 1,5	10	65 - 80 d.**	20 - 30 mt	5,5 - 6,8	Sandy well drained loams	Warm weather plants needing constant soil moisture
Pumpkin	700	4 - 5 2 - 3*	80 - 145	150 - 200	2,5	7	110 - 120 d.**	40 - 80 mt	5,5 - 6,8	Fertile free draining soils	Requires long, warm growing season
Radish	10.500	12 - 15	3 - 5	20 - 30	0,5 - 1,5	6	20 - 30 d.	10 - 15 mt	5,5 - 6,8	Friable rich moist soils	Avoid excessive heat
Savoy Cabbage	28.000	2,2 0,3*	50 - 60	50 - 60	1,5	8	95 - 105 d.	25 mt	6,0 - 6,8	Well drained organic soils	Avoid excessive heat
Spinach	10.000	25 - 30	2,5 - 7,5	10 - 30	1,5 - 2,5	8	35 - 60 d.	15 - 25 mt	6,5 - 7,0	Fertile moist drained soils	Avoid excessive heat
Squash	1.000	4,5 2 - 3*	50 - 60	120 - 150	2,5 - 5	7	40 - 80 d.**	20 - 50 mt	5,5 - 6,8	Light fertile soils which retain moisture	Continuous picking will improve yields
Sugar Peas	700	80 - 120	5 - 10	45 - 60	2,5 - 5	8	65 - 75 d.	5 - 10 mt	5,5 - 6,8	Dry moderately rich loams	Avoid excessive heat
(for "Toledo Sugar": 2 rows on each bed, 1: 20 cm between the beds, 40 cm between the rows, 1: 0 cm between the plants)											
Sweet Corn	700	15 - 20	20 - 25	90	2,5 - 4	8	70 - 85 d.	12 - 15 mt	5,5 - 6,8	Rich well drained soils	Avoid moisture stress
Swiss Chard	10.000	15 - 20	25 - 35	45 - 60	2 - 2,5	9	50 - 60 d.	10 - 25 mt	6,0 - 6,8	Sandy well drained soils	Weed control essential
Tomato	35.000	2,2 0,4*	30 - 40	100 - 150	0,5 - 1,5	8	65 - 85 d.**	10 - 60 mt	5,8 - 6,8	Deep alluvial or volcanic soils	Regular crop rotation imperative
Turnip	42.000	5,7	5 - 10	30 - 45	0,5 - 1,5	6	35 - 50 d.	20 - 40 mt	6,0 - 6,5	Silt loams	Responds well to phosphorus
Watermelon	1.400	4 - 5	60 - 150	120 - 170	2,5 - 5	8	75 - 95 d.	30 - 50 mt	5,5 - 6,8	Rich light well drained soils	Crop rotation essential. Yield will improve after a root crop.

\* denotes seeding rate for transplanting from nursery beds  
 \*\* denotes maturity measured from time of transplanting  
 d. days

All figures in this Planting Guide are approximate and will vary according to soil type, environmental conditions, farm practice and variety.