

Vegetable species	TSW [g] approx.	Germination temp. (substrate) [°C] approx.	Seed rate ^(**) for direct sowing [per ha] approx.	Stand density ^(**) at planting [plants/ha] approx.	Cultivation time ^(**) from sowing/planting [days] approx.	Sowing, planting, harvest times ^{(**)*} [I-XII] approx.	Cultivation information ^{(**)*}
Artichokes	35-45	20-25		1 plant/m ²	harvest starting from 80 days	sowing XI - A III	- frost protection - vernalization - cultivation guidance avail.
Beans							
Dwarf french beans	100-400	≥ 12/opt. 25	320 TK/80-120 kg		70-100	sowing A V - A VII (pay attention to risk of late frost)	RA: approx. 50 cm x 10 cm; dibbling: 3 seeds, approx. 50 cm x 40 cm
Climbing beans	350-500	≥ 15/opt. 20-24	40-65 kg (FL) 300-500 g/100m ² (GH)		60-120	sowing from M II (GH) A V-A VII (FL) (risk of late frost!)	pole spacing approx. 120 x 50 cm, 6-8 K/St.(FL) 100 x 35 cm, 3 K/St. (GH)
Bulb fennel	5	20-22		100,000	60-80	sowing M II - M VII planting A IV - E VIII harvest A VI - A XI	direct sowing before July can cause plants to bolt.
Cabbage							
Cauliflower	4	15-20		20,000 - 35,000	70-90		
Kohlrabi	4-7	16-18; sensitive/early varieties 18-20		100,000-110,000 (FL) 160,000 (GH)	45-70 (FL) 60-80 (GH)		
Brussels sprouts	4-7	15-20		30,000 - 40,000	150-200		
Red cabbage	4	15-20		30,000 - 50,000	70-140		
White cabbage	4	15-20		30,000 - 50,000	60-140		
Savoy cabbage	4	15-20		30,000 - 45,000	60-140		
Carrots							
Bunching carrot	1-1.7	6-20	1.4-2 Mio K		80-100		
Washing carrot	1-1.7	6-20	1.4-1.8 Mio K		90-130		
Carrots for industry	1-1.7	6-20	1.2-1.5 Mio K		100-150		
Celery							
for bunching (glasshouse)	0.4-0.6	opt. 20 until transplant ≥ 18 until planting opt.16-18		for bunching GH: 70,000 - 75,000	60-80	sowing M XII planting A III harvest A V	seed plate 40 x 30 cm with 100 K/plate (4 x 3 cm)
for fresh market (under foil/fleece)	0.4-0.6	Prestinun pills: 15 constantly for 5 days then 15-18; bolting risk at temperature sum (average daily temperature x days) until emergence < 240		for fresh market (under foil/fleece): 60,000 - 65,000	80-120	sowing A I - E I planting M III - E III harvest A VI - E VI	RA: 30 x 32 cm
for industry and fresh market	0.4-0.6			for industry and fresh market: 40,000 - 50,000	120-150	sowing A III - E III planting M V - E V harvest M VII - E X	RA: 50 x 33 cm
Corn salad							
Open field	1.3-2	10-15	4-7 Mio K		55-80		RA:10-15 cm
Glasshouse	1.3-2	10-15	5 Mio K	800,000 - 1 Mio EPT/ha	sowing: 70-100 planting: 55-90	glasshouse: year-round	5-7 K/EPT, 80 EPT/m ² RA:10-15 cm, 60-100 K/lfm
Cress	1.5-2.5	15-20	600-800 kg		10-15		
Cucumbers							
Pickling cucumbers - open field -	20-30	≥ 16/opt. 23-26	60 TK 3-4 K/hole RA: 1.5 m x 33 cm	45,000	sowing: harvest starting from 70 T. planting: harvest starting from 60 T.	sowing from M V (FL), with fleece from M IV	≥ 500 m distance between parthenocarpic and mixed flowering varieties
Slicing cucumbers - open field-	25-35						
Slicing cucumbers - greenhouse -	25-35	≥ 18/opt. 23-26, further cultivation: T/N 20-22/16-18		1.5 plants/m ²	harvest starting from 30 days		RA: e.g. 160 x 50 cm
Eggplants	5-6	20-25		1.8 plants/m ²	harvest starting from 60 days	sowing M I - M III planting M III - M V harvest in/after M V	
Endives	1.2-2	20-22		80,000 - 90,000	60-80		
Garden turnip	2-4	20-22	5 kg		70-80		RA: 30-40 x 6-20 cm
Herbs *							
Basil	1.5-1.8	18-22	3 kg		50-60		
Chives	1-1.5	15-20	6-10 kg				multiple cuttings possible
Dill	1-2	15-20	8-10 kg		50-60		
Parsley	1.2-1.8	15-20	4-10 kg		harvest starting from 80 days		multiple cuttings possible
Salad rocket	2	15-20	10 kg		30-50		
Wild rocket	0.25	20-25	2-4 kg		40-60		
Leek	2.5-3.5	≥ 15 precultivation GH ≥ 8, opt. 10 (FL)	250-300 TK/ha	140,000 - 200,000	planting: 90-120		seed plate 40 x 30 cm with 270 K/plate (2 x 2.2 cm)
Lettuce							
Batavia lettuce	0.8-1.2	10-15, max. 18		100,000 (FL) 120,000 (GH)	35-60 (FL) 50-80 (GH)		
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Oakleaf lettuce	0.8-1.2	10-15, max. 18		70,000	45-60		
Iceberg lettuce	0.8-1.2	10-15, max. 18		100,000 (FL) 120,000 (GH)	35-60 (FL) 50-80 (GH)		
Butterhead lettuce	0.8-1.2	10-15, max. 18		100,000 (FL) 120,000 (GH)	35-60 (FL) 50-80 (GH)		
Lollo Bionda/Rossa	0.8-1.2	10-15, max. 18		100,000 (FL) 120,000 (GH)	35-60 (FL) 50-80 (GH)		
Romaine lettuce	0.8-1.2	10-15, max. 18		100,000; Little Gem:160,000	45-60; Little Gem:35-60		
Long radish							
Long radish for bunching	6-1	6-20	500 TK/approx. 5 kg		40-60		RA: 25 x 8 cm
Long radish	6-19	6-20	250 TK/approx. 2.5 kg		40-60		RA: 25 x 16/20 cm (GH/FL)

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Onions							
<i>Allium cepa</i> L. Summer onions	3.5-4	15-20	750 TK-1 Mio K		120-160	sowing A III - E III harvest from M VII	RA: 25-40 cm consider crop rotation (5 years)
<i>A. fistulosum</i> L. Bunching onions	2-2.5	15-20	2 Mio K		75-100	sowing E II - E VII harvest A VI - E X	consider crop rotation (5 years)
Parsley root	1.3-1.5	15-20	1-2 kg		120-150	sowing A III - A V	
Peas	200-300	8-14	early peas: 250 kg medium early/late peas: 160-200 kg		70-120	sowing sugar pea from A III wrinkled pea from A IV	
Pepper	7	≥ 20 further cultivation 18-22		2-3 plants/m ²	harvest starting from 60 days		
Red beet							
normal cultivation	10-15 g/1,000	16-22	10-13 kg/approx. 900		120-150	sowing A IV - M VI	RA: 25-50 x 5-15 cm
late cultivation	seed balls; monogerm	16-22	8 kg/approx. 500 TK		150	sowing M VI - M VII	RA: 25-50 x 5-15 cm
Baby beets	7-10	16-22	18-25kg/ approx. 2.1 Mio K		70-90		RA: 12 x 4 cm
Small radish	8-14	6-20	2-3 Mio K/ approx. 20 kg		30-50 (FL) 40-80 (GH)	sowing M II - M IX, glasshouse: year-round	RA: 7 x 5-6 cm (GH) 16 x 2.5 cm (FL)
Spinach	12-16	15-20	leaf spinach: 3 Mio K root spinach: 1 Mio K		50-80; if over- wintering: 180-210		RA: 20-30 cm (FL); 15-20 cm (GH)
Squash	30-360 varieties differ	15-20	20 TK	10,000	40-150	direct sowing/planting from M V	RA: 1.5 x 1 m (2 seeds/hole or 1 plant/planting hole)
Sweet corn	120-150	≥ 12	60-80 TK		90-110	sowing E IV - A VI, with fleece from A IV harvest in/after A VIII	≥ 300 m distance from forage maize in direction of wind because of risk of crossing
Tomatoes	2.5-3.5	opt. 20-24		2-2.5 plants/m ²	harvest starting from 60 days	sowing A II - E II planting A IV - M IV harvest in/after E VI	cold cultivation (open field) approx. 4-6 weeks later
Zucchini	130-200	opt. 22, then 15-18	6 kg	10,000	harvest starting from 40 days	sowing M IV - A VII planting M V - M VII harvest in/after E VI	RA: 160 x 60 cm

TSW = thousand seed weight

≥ = at least

opt. = optimal

< = below

max. = maximum

T/N = day/night

FL = open field

GH = glasshouse

K = seed, TK = 1000 seeds

Mio = million

RA = row spacing

St. = pole

EPT = press pot

T = days

A = beginning

M = mid

E = end

I-XII (Roman numerals) = January - December

lrm = running meter

^(**) for Northwest European climatic conditions

* unless mentioned in the corresponding chapter

Note:

No responsibility is taken for the correctness of the variety information provided by HILD. Our recommendations are based as far as possible on practical experiences and trials.

Depending on climate, location and cultivation, recommendations can differ from above table. HILD will not accept, under any circumstance, the liability for different results regarding a cultivated product. The buyer must decide himself/herself whether the products and the corresponding information are suitable for his/her local conditions.