

Table 4. Seeding recommendations for common vegetable crops grown in Washington (adapted from Kumar et al. 2009, 3-4).

Vegetable	Seeding			Germination		Growth		
	Depth to Plant (inch)	Distance Between Plants (inch)	Distance Between Rows (inch)	Number of Days to Germinate	Optimum Soil Temperature Range (°F)	Base Air Temperature (°F)	Weeks to Grow to Transplant Size	Days to Maturity
Artichoke	¼-½	18	36	8-14	65-82	50	6-8	85-120
Arugula	¼	6	10-12	7-14	45-75	40-55	DS ¹	30-40
Asparagus, Seed	1½	12	18-36	24-30	50-85	40	12-14	2-3 years
Asparagus, Crown	6-9	12	18-36	12-20	60-85	40	DS	1-2 years
Celtuce	¼	8	10-20	7-10	50-80	50-60	4-5	80
Bean, Bush	1½-2	2	18-30	6-14	60-90	50	DS	50-70
Bean, Lima Bush	1½-2	3	18-30	7-12	70-85	55	DS	75-80
Bean, Lima Pole	1½-2	3-4	24-36	7-12	75-85	55	DS	85-90
Bean, Pole	1½-2	3	24-36	6-14	60-85	50	DS	55-65
Bean, Scarlet Runner	1½-2	4-6	36-48	8-16	65-85	50	DS	60-70
Bean, Yardlong	1	3	24-36	6-13	60	50	DS	75-85
Beet	½-1	3	12-18	7-10	50-85	40	DS	45-55
Belgian Endive (Witloof Chicory)	¼-½	4-8	18-24	7-21	50-75	45	4-6	100-120
Black-Eyed Pea (Cowpea, Southern Pea)	1-1½	2-4	24-30	7-14	70-85	65	DS	105-125
Bok Choy	¼-½	4-12	10-18	5-14	50-80	45	4-5	30-50
Broccoli	¼-½	12-18	18-24	3-10	50-60	40	5-6	50-80
Brussels Sprout	¼-½	18-24	24-36	3-10	45-85	40	5-6	80-105
Cabbage	¼-½	12-24	24-36	4-10	50-90	50	5-6	65-95
Cabbage, Chinese	¼-½	10-18	18-30	4-10	60-85	50	4-6	70-90
Carrot	¼-½	1-2	12-24	7-21	50-75	45	DS	60-80
Cauliflower	¼-½	18	24-36	4-10	45-85	50	5-6	65-80
Celeriac	⅞	8	24-36	9-21	70-75	60	10	90-120
Celery	⅞	8	24-36	9-21	60-70	45	10-12	120-140
Chard, Swiss	½	4-12	18-24	7-14	50-85	40	DS	55-65
Chicory (Endive, Escarole)	½	8-10	12-24	5-9	50-80	40	4-6	50-60
Chicory, Italian Dandelion	¼-½	8-10	12-16	7-14	50-75	40	DS	45-55
Chive	¼-½	2-4	12-18	7-21	50-70	45	4-6	80-90
Collards	½-¾	8-18	18-30	4-10	40-85	40	5-6	65-85
Corn, Sweet	2	6-12	24-36	6-10	60-90	48	DS	65-90
Corn Salad (Mâche, Feldsalat)	¼-½	4-6	6-18	10-14	50-65	40	DS	45-55
Cress	¼-½	4-6	3-4	4-10	55-75	45	DS	25-45
Cucumber	1	12-18	36-48	6-10	70-95	55	4-5	45-65
Edamame	1½-2	2-3	24-30	6-14	55	50	DS	85-100
Eggplant	¼-½	18	24-36	7-14	70-90	60	6-9	75-95
Fennel (Finocchio)	¼-½	10-12	24-36	12-18	50-75	30	6-8	100-120
Garbanzo (Chickpea)	1½-2½	3-4	24-30	6-12	45	65	DS	85-125

¹DS is direct-seeded.

Table 4 (continued). Seeding recommendations for common vegetable crops grown in Washington (adapted from Kumar et al. 2009, 3-4).

Vegetable	Seeding			Germination		Growth		
	Depth to Plant (inch)	Distance Between Plants (inch)	Distance Between Rows (inch)	Number of Days to Germinate	Optimum Soil Temperature Range (°F)	Base Air Temperature (°F)	Weeks to Grow to Transplant Size	Days to Maturity
Garlic	2	4-6	12-24	6-10	35-50	30	DS	90-150
Horseradish	4	12-24	24-48	10-20	45-75	40	DS	140-160
Jerusalem Artichoke (Sunchoke)	4	12-18	36-48	10-20	65-90	50	DS	110-150
Kale	¼-½	8-12	18-24	3-10	60-90	40	5-6	55-80
Kohlrabi	¼-½	8	18-24	3-10	50-80	40	6-8	60-70
Leek	¼-½	4-6	18-24	7-12	45-90	35	10-12	80-90
Lettuce, Head	⅛-¼	12-14	18-24	4-10	40-80	40	4-6	55-80
Lettuce, Leaf	⅛-¼	2-4	4-6	7-10	50-80	40	4-6	45-60
Muskmelon (Cantaloupe)	1	24-36	36-48	4-8	75-95	50	3-4	75-95
Mustard Greens	¼-½	8-18	12-24	3-10	45-85	35	5-6	35-65
New Zealand Spinach	¼-½	6	24	5-10	60-75	50	4-6	70-80
Onion, Set	1-2	2-3	12-24	n/a	50-90	40	DS	90-110
Onion, Seed	¼-½	1-2	12-18	10-20	50-90	40	5-6	80-120
Parsley	¼-½	2-4	12-18	20-30	50-85	35	6-8	75-90
Parsnip	¼-½	2-3	18-24	20-25	50-85	45	DS	100-120
Pea	1-2	2-3	18-36	6-15	45-85	40	DS	65-85
Pepper	¼-½	18-24	12-24	10-20	65-95	50	6-8	60-80
Potato	2-3	12	30-36	14-21	40	40	DS	90-105
Pumpkin	1-1½	36	72	6-10	70-90	45	4-6	70-110
Radicchio	¼-½	8-10	8-18	7-10	45-85	40	4-6	65-90
Radish	½	1-2	6-12	3-10	50-65	40	DS	20-30
Rutabaga	½	6-8	18-24	3-10	45-85	40	DS	80-90
Salsify	½	3-4	18-24	14-20	55-75	40	DS	110-150
Shallot	1	4-6	12-18	18	45-95	32	DS	60-75
Spinach	½	2-4	12-18	6-14	45-75	15-20	DS	30-40
Squash, Summer	1-1½	18-24	36-48	3-12	70-95	45	4-6	45-60
Squash, Winter	1-1½	24-36	72	6-10	60-90	45	4-6	85-120
Sweet Potato	1-2	12-18	36-48	14-20	75-80	60	DS	150
Tomatillo	¼-½	18-36	36-48	6-14	70-85	51	5-6	55-90
Tomato	¼-½	18-36	36-48	6-14	70-85	51	5-6	55-90
Tomato, Ground Cherry (Husk Tomato)	¼-½	18-24	36	6-13	70-85	51	6-7	90-100
Turnip	¼-½	2-3	12-18	3-10	40-85	35	DS	40-50
Watermelon	1-1½	24-36	48-60	3-12	60-95	55	4-6	80-100

¹DS is direct-seeded.

