

Winter Hoophouse Crops Days to emergence at various soil temperatures

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Bold type indicates optimum temperatures, yes = I think so; no = I don't think so; ? = I don't know

Crop	32F 0C	41F 5C	50F 10C	59F 15C	68F 20C	77F 25C	86F 30C	95F 35C	104F 40C
Arugula	?	best	yes	yes	yes	?	?	?	?
Asian greens in general		yes	yes	yes	yes	best	yes	max	no
Beets	no	42	17	10	6	5	5	5	no
Broccoli, including raab	no	min	15	9	6	5	4	max	no
Cabbage	no	min	15	9	6	5	4	max	no
Carrots	no	51	17	10	7	5	6	9	no
Celery, celeriac (<60F/15C at night)	no	41	16	12	7	yes	max	no	no
Chicory (Endive, Escarole, Radicchio)	yes	yes	yes	6	6	6	max	no	no
Chinese cabbage	no	no	min	yes	4	4	3	max	no
Chives	?	?	yes	best	best	?	?	?	?
Claytonia	?	?	best	?	?	?	?	?	?
Collards	?	yes	yes	yes	yes	4	yes	yes	?
Corn salad (mache)	yes?	yes	yes	yes	best	yes?	no?	no	no
Cress	?	?	best	best	yes	yes	?	?	?
Fava beans (Broad beans)	no	no	45F/7C min	54F/12C best	yes	yes	yes	yes	no
Fennel (bulbs)	no	yes	yes	yes	best?	best?	yes	yes	no
Kale	?	yes	yes	yes	yes	4	4	yes	?
Kohlrabi	no	yes	yes	yes	yes	4	yes	no	no
Leek		yes	yes	yes	best, 7	yes	max	no	no
Lettuce	49	15	7	4	3	2	3	no	no
Mustard greens	?	yes	yes	yes	best	yes	yes	?	?
Onions	136	31	13	7	5	4	4	13	yes
Pak Choy/Pac Choi/Bok Choy		yes	yes	yes	yes	best	max	no	no
Parsley	no	yes	29	17	14	13	12	max	no
Parsnips	172	57	27	19	14	15	32	no	no
Peas	no	36	14	9	8	6	6	max	no
Radish	no	29	11	6	4	4	3	max	no
Red Orach	?	yes	best	yes	?	?	?	?	?
Sorrel	?	?	yes	yes	best	yes	?	?	?
Spinach	63	23	12	7	6	5	6	no	no
Swiss Chard	no	yes	yes	yes	yes	yes	best, 4	max	no
Turnips and rutabagas	no	yes	5	3	2	1	1	1	3

Sources

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