

## RESPIRATION RATES AT VARIOUS TEMPERATURES FOR VARIOUS CROPS

CROP	32° F	41° F	50° F	60° F	70° F	80° F	
Asparagus	27-80	55-136	90-304	160-327	275-500	500-600	
Beans, snap		20	35	58	93	130	193
Beans, lima	10-30	20-36	-	100-125	133-179	-	
Beets, bunched		11	14	22	25	40	-
Beets, root	5-7	9-10	12-14	17-23	-	-	
Blackberries	18-20	31-41		62	75	155	-
Blueberries	2-10	9-12	23-35	34-62	52-87	78-124	
Broccoli	19-21	32-37	75-87	161-186	278-320	-	
Beans, lima	10-30	22-48	63-84	64-136	86-190	-	
Cabbage	4-6	9-12	19-19	20-32	28-49	49-63	
Cantaloupe	5-6	9-10	14-16	34-39	45-65	62-71	
Carrots, topped	10-020	13-26	20-42	26-54	46-95	-	
Cauliflower	16-19	19-22	32-36	43-49	75-86	84-140	
Celery	5-7	9-11		24	30-37	64	-
Corn, sweet	30-51	43- 83	104-120	151-1 75	268-311	282-435	
Cucumbers	-	-	23-29	24-33	14-48	19-55	
Endive		45	52	73	100	133	200
Garlic	4-14	9-33	9-10	14-29	13-25	-	
kale	16-27	34-47	72-84	120-155	186-265	-	
Leeks	10-20	20-29	50-70	75-117		110	107-119
Lettuce, leaf	19-27	24-35	32-46	51-74	82-119	120-173	
Mushrooms	28-44		71	100	-	264-316	-
Onions, dry		3	3-4	7-8	10-11	14-19	27-29
Onions, green	10-32	17-39	36-62	66-115	79-178	98-210	
Parsley	30-40	53-76	85-164	144-184	196-225	291-324	
Peas, in pods	30-47	55-76	68-117	179-202	245-361	343-377	
Peppers, bell	-		10	14	23	44	55
Potatoes, early	-		12	14-21	14-31	18-45	-
Potatoes, late	-	3-9	7-10	6-12	8-16	-	
Radishes with tops	14-17	19-21	31-36	70-78	124-136	158-193	
Raspberries	18-25	31-39	28-55	82-101	-	-	
Rutabagas	2-6	5-10		15	11-28	41	-
Spinach	19-22	35-58	82-138	134-223	172-287	-	
Squash, summer	12-13	14-19	34-36	75-90	85-97	-	
Strawberries	12-18	16-23	49-95	71-92	102-196	169-211	
Tomatoes, ripening	-	-	13-19	21-29	24-44	30-52	
Turnips	6-9		10	13-19	21-24	24-25	-

Source of data: R.E. Hardenburg, formerly USDA, R.C. Wright and T.M. Whitman, formerly USDA, L.L. morris, Univ Davis

### Low

Apples  
garlic  
grapes  
onions  
potatoes (mature)  
sweet potatoes  
turnips  
beets

### Moderate

cabbages  
carrots  
lettuce  
peppers  
potatoes (immature)  
tomatoes  
celery

### High

Artichokes  
brussels sprouts  
cut flowers  
green onions  
snap beans  
green onions

### Extremely high

Asparagus  
broccoli  
mushrooms  
peas  
sweet corn  
kale  
parsley  
spinach