

NATIONAL SEARCH DOG ALLIANCE: Nighttime Acreage Adjustment Chart

Check **ONE** box in each row using your best estimate for the average conditions that will exist during the test. **All ratings to be made at the start of the test based on average predicted conditions: do not alter acreage if conditions change during the course of the test.**

CONDITIONS	A EXCELLENT	B GOOD	C FAIR	D POOR
Heat Stress/Wind Chill Indexes	<input type="checkbox"/> 10 to 70°F	<input type="checkbox"/> 71 to 82°F	<input type="checkbox"/> 83 to 89°F <input type="checkbox"/> 0 to 10°F	<input type="checkbox"/> over 90°F* <input type="checkbox"/> below 0°F*
Ground Cover	<input type="checkbox"/> 81% or more open (i.e. almost all of the area is open fields or woodland. Grid searches are readily possible given the type and density of ground cover.)	<input type="checkbox"/> 65-80% open (i.e. a significant portion of the area is easily passable but there are areas of dense cover. Most portions of the area can be gridded.)	<input type="checkbox"/> 25-64% easily passable (i.e. a significant portion of the area is covered in dense brush, heavy snow or other obstructions but there are open portions. Many sections cannot be gridded.)	<input type="checkbox"/> Less than 25 % open (i.e. nearly all of the area is covered in dense brush, heavy snow, or other obstructions. Most areas cannot be gridded.)
Elevation Change (high point versus low point or cumulative per 40-Acres)	<input type="checkbox"/> Level (less than 100 feet change)	<input type="checkbox"/> Mild climbs (100-200 feet)	<input type="checkbox"/> Moderate climbs (200-300 feet)	<input type="checkbox"/> Significant climbs (Over 300 feet)
Wind	<input type="checkbox"/> Strong breeze (7 or more mph but not a gale*)	<input type="checkbox"/> Moderate breeze (6-7 mph)	<input type="checkbox"/> Light breeze (4-5 mph)	<input type="checkbox"/> No or little wind (0-3 mph)
TOTALS: add columns and multiply	A. ___ x 0 acres =	B. ___ x 2 acres =	C. ___ x 3 acres =	D. ___ x 5 acres =
<p>Maximum Night Acreage under excellent conditions = 40 Acres Total Acreage adjustment: Sum of A+B+C+D = _____ Subtract adjusted acreage from 40 - (A+B+C+D) = _____ Total adjusted acres (minimum of 20)</p> <p>*No tests should be given when the combination of air temperature and relative humidity (heat stress) is at or above the danger zone or the combination of temperature and wind speed (wind chill) is in the frostbite zone. At the discretion of the Evaluator, tests may be cancelled in extreme wind, hazards that are not visible at night or other unsafe conditions.</p> <p>The Evaluator may make acreage adjustments for poor conditions not specified on the adjustment chart (snow, high winds, intense cold, steep drainages, slippery footing, etc.) but only as necessary and never below the 20-acre minimum. The amount and rationale for any adjustment not listed on the chart must be specified on the test form.</p>				

Temperature (°F)

	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
40	80	81	83	85	88	91	94	97	101	105	109	114	119	124	130	136
45	80	82	84	87	89	93	96	100	104	109	114	119	124	130	137	
50	81	83	85	88	91	95	99	103	108	113	118	124	131	137		
55	81	84	86	89	93	97	101	106	112	117	124	130	137			
60	82	84	88	91	95	100	105	110	116	123	129	137				
65	82	85	89	93	98	103	108	114	121	128	136					
70	83	86	90	95	100	105	112	119	126	134						
75	84	88	92	97	103	109	116	124	132							
80	84	89	94	100	106	113	121	129								
85	85	90	96	102	110	117	126	135								
90	86	91	98	105	113	122	131									
95	86	93	100	108	117	127										
100	87	95	103	112	121	132										

Likelihood of Heat Disorders with Prolonged Exposure or Strenuous Activity

■ Caution
 ■ Extreme Caution
 ■ Danger
 ■ Extreme Danger

Source: <http://www.weather.gov/om/heat/index.shtml>

New Wind Chill Chart

Wind (mph)

	Calm	5	10	15	20	25	30	35	40	45	50	55	60
40	36	34	32	30	29	28	28	27	26	26	25	25	
35	31	27	25	24	23	22	21	20	19	19	18	17	
30	25	21	19	17	16	15	14	13	12	12	11	10	
25	19	15	13	11	9	8	7	6	5	4	4	3	
20	13	9	6	4	3	1	0	-1	-2	-3	-3	-4	
15	7	3	0	-2	-4	-5	-7	-8	-9	-10	-11	-11	
10	1	-4	-7	-9	-11	-12	-14	-15	-16	-17	-18	-19	
5	-5	-10	-13	-15	-17	-19	-21	-22	-23	-24	-25	-26	
0	-11	-16	-19	-22	-24	-26	-27	-29	-30	-31	-32	-33	
-5	-16	-22	-26	-29	-31	-33	-34	-36	-37	-38	-39	-40	
-10	-22	-28	-32	-35	-37	-39	-41	-43	-44	-45	-46	-48	
-15	-28	-35	-39	-42	-44	-46	-48	-50	-51	-52	-54	-55	
-20	-34	-41	-45	-48	-51	-53	-55	-57	-58	-60	-61	-62	
-25	-40	-47	-51	-55	-58	-60	-62	-64	-65	-67	-68	-69	
-30	-46	-53	-58	-61	-64	-67	-69	-71	-72	-74	-75	-76	
-35	-52	-59	-64	-68	-71	-73	-76	-78	-79	-81	-82	-84	
-40	-57	-66	-71	-74	-78	-80	-82	-84	-86	-88	-89	-91	
-45	-63	-72	-77	-81	-84	-87	-89	-91	-93	-95	-97	-98	

Frostbite occurs in 15 minutes or less

$$\text{Wind Chill (°F)} = 35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})$$

Where, T = Air Temperature (°F)
 V = Wind Speed (mph)

Source: <http://www.erh.noaa.gov/er/iln/tables.htm#wind%20chill>

No tests should be given when conditions reach the Danger, Extreme Danger or Frostbite zones. At the discretion of the Evaluator, tests may also be cancelled in other extreme wind or weather conditions.