

Temperature – Humidity Index Chart

Heat Stress factors:

- Actual temperature and humidity
- Cow factors (size, milk production, etc.)
- Degree of cooling that occurs at night
- Length of the heat stress period
- Ventilation and air flow
- Water availability
- Hair coat depth

Temperature		% Relative Humidity																				
*F	*C	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
72	22.0	64	65	65	65	66	66	67	67	67	68	68	69	69	70	70	71	71	72	72	73	73
73	23.0	65	65	66	66	66	67	67	68	68	68	69	69	70	70	71	71	72	72	73	73	74
74	23.5	65	66	66	67	67	68	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75
75	24.0	66	66	67	67	68	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75
76	24.5	66	67	67	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75	76	76
77	25.0	67	67	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75	76	76	77
78	25.5	67	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75	76	76	77	78
79	26.0	67	68	69	69	70	70	71	71	72	73	73	74	74	75	75	76	77	77	78	78	79
80	26.5	68	69	69	70	70	71	72	72	73	73	74	75	75	76	76	77	78	78	79	79	80
81	27.0	68	69	70	70	71	72	72	73	73	74	75	75	76	77	77	78	78	79	80	80	81
82	28.0	69	69	70	71	71	72	73	73	74	75	75	76	77	77	78	79	79	80	81	81	82
83	28.5	69	70	71	71	72	73	73	74	75	75	76	77	78	78	79	80	80	81	82	82	83
84	29.0	70	70	71	72	73	73	74	75	75	76	77	78	78	79	80	80	81	82	83	83	84
85	29.5	70	71	72	73	73	74	75	75	76	77	78	78	79	80	81	81	82	83	84	84	85
86	30.0	71	71	72	73	74	74	75	76	77	78	78	79	80	81	81	82	83	84	84	85	86
87	30.5	71	72	73	73	74	75	76	77	77	78	79	80	81	81	82	83	84	85	85	86	87
88	31.0	72	72	73	74	75	76	76	77	78	79	80	81	81	82	83	84	85	86	86	87	88
89	31.5	72	73	74	75	75	76	77	78	79	80	81	82	83	84	85	86	86	87	88	89	89
90	32.0	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	86	87	88	89	90	90
91	33.0	73	74	75	76	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	91
92	33.5	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	92
93	34.0	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	93
94	34.5	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94
95	35.0	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
96	35.5	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
97	36.0	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
98	36.5	76	77	78	80	80	82	83	86	85	86	87	88	89	90	91	92	93	94	95	96	98
99	37.0	76	78	79	80	81	82	83	84	85	87	88	89	90	91	92	93	94	95	96	98	99
100	38.0	77	78	79	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	98	100
101	38.5	77	79	80	81	82	83	84	86	87	88	89	90	92	93	94	95	96	98	99	100	101
102	39.0	78	79	80	82	83	84	85	86	87	89	90	91	92	94	95	96	97	98	100	101	102
103	39.5	78	79	81	82	83	84	86	87	88	89	91	92	93	94	96	97	98	99	101	102	103
104	40.0	79	80	81	83	84	85	86	88	89	90	91	93	94	95	96	98	99	100	101	103	104
105	40.5	79	80	82	83	84	86	89	88	89	91	93	94	95	97	98	99	100	101	102	103	105
106	41.0	80	81	82	84	85	87	88	89	90	91	93	94	95	97	98	99	101	102	103	104	106
107	41.5	80	81	83	84	85	87	88	89	91	92	94	95	96	98	99	100	102	103	104	106	107
108	42.0	81	82	83	85	86	88	89	90	92	93	94	96	97	98	100	101	103	104	105	107	108
109	43.0	81	82	84	85	87	89	89	91	92	94	95	96	98	99	101	102	103	105	106	108	109
110	43.5	81	83	84	86	87	89	90	91	93	94	96	97	99	100	101	103	104	106	107	109	110
111	44.0	82	83	85	86	88	90	91	92	94	95	96	98	99	101	102	104	105	107	108	110	111
112	44.5	82	84	85	87	88	90	91	93	94	96	97	99	100	102	103	105	106	108	109	111	112
113	45.0	83	84	86	87	89	91	92	93	95	96	98	99	101	102	104	105	107	108	110	111	113
114	45.5	83	85	86	88	89	92	92	94	96	97	99	100	102	103	105	106	108	109	111	112	114
115	46.0	84	85	87	88	90	92	93	95	96	98	99	101	102	104	106	107	109	110	112	113	115
116	46.5	84	86	87	89	90	93	94	95	97	98	100	102	103	106	107	109	110	112	113	114	116
117	47.0	85	86	88	89	91	93	94	96	98	99	101	102	104	106	107	109	111	112	114	115	117
118	48.0	85	87	88	90	92	94	95	97	98	100	102	103	105	106	108	110	111	113	115	116	118
119	48.5	85	87	88	90	92	94	96	97	99	101	102	104	106	107	109	111	112	114	116	117	119
120	49.0	86	88	89	91	93	95	96	98	100	101	103	105	106	108	110	111	113	115	117	118	120

Management Tips:

- Provide shade
- Clean water tanks
- Feed during cooler hours
- Watch for inconsistent manure
- Ensure access to feed
- Use sprinklers and fans
- Reduce time in holding pens
- Don't lock-up during midday

Alltech's solutions for optimal rumen function have a beneficial effect on dry matter intake and help to reduce feed waste during periods of heat stress.

By feeding YEA-SACC[®] and OPTIGEN[®] you can address depressed intake while getting the very best from this dynamic duo. Yea-Sacc and Optigen work in synergy to stabilise the rumen environment, reduce pH variations which lowers the risk of acidosis and optimise protein supply to meet higher energy requirements. Optimising rumen function throughout the summer months promotes milk production, more consistent performance and feed efficiency.

- Support dry matter intake
- Better digestion
- Get more from the diet with less wastage
- Promote milk production

Combat your herd's heat stress with
YEA-SACC[®] & OPTIGEN[®]

- Stress threshold respiration rate exceeds 60 BPM. Milk yield losses begin. Repro losses detectable. Rectal temperature exceeds 101.3 °F (38.5 °C).
- Mild-moderate stress respiration rate exceeds 75 BPM. Rectal temperature exceeds 102.2 °F (38 °C).
- Moderate-severe stress respiration rate exceeds 85 BPM. Rectal temperature exceeds 104 °F (40 °C).
- Severe stress respiration exceeds 120-140 BPM. Rectal temperature exceeds 106 °F (41 °C).