Recognizing and Avoiding Heat Stress in Cattle



In warm weather, cattle should always have access to shade and water.

Heat stress is more sever with high humidity. Cattle can tolerate higher temperatures with lower humidity.

When moving or working cattle, check the forecast for the temperature and humidity of the times you will be gathering, working, or hauling cattle.

The Temperature Humidity Index (THI; see chart) is an excellent resource to ensure the cattle will not experience significant heat stress. The THI is

Relative Humidity (%)

determined using a formula that accounts for both ambient (in the shade) temperature (Fahrenheit) and humidity (%):

- THI = Temperature 0.55 [(1 Relative Humidity) × (Temperature 58)]
- THI < 72: No heat stress expected.
- THI 72–79: Mild heat stress.
- THI 80-89: Moderate heat stress.
- THI > 89: Severe heat stress.

Emergency

https://www.elancothermalaid.com/

Livestock Weather Hazard Guide

		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100		
Dry Bulb Temp. (F)	75									70	70	71	71	72	72	73	73	74	74	75	75		
	76							70	70	70	71	72	72	72	73	74	74	74	75	76	76		
	77						70	70	71	71	72	72	73	73	74	74	75	75	76	76	77		
	78					70	70	71	71	72	72	73	74	74	75	75	76	76	77	78	78		
	79				70	70	71	72	72	73	73	74	74	75	75	76	77	77	78	78	79		
	80			70	70	71	72	72	73	73	74	74	75	76	76	77	78	78	79	79	80		
	81		70	70	71	71	72	73	73	74	75	75	76	77	77	78	78	79	80	80	81		
	82		70	71	71	72	73	73	74	75	75	76	77	77	78	79	79	80	81	81	82		
	83	70	71	71	72	73	73	74	75	75	76	77	78	78	79	80	80	81	82	82	83		
	84	70	71	72	72	73	74	75	75	76	77	78	78	79	80	80	81	82	83	83	84		
	85	71	72	72	73	74	75	75	76	77	78	78	79	80	81	81	82	83	84	84	85		
	86	71	72	73	74	74	75	76	77	78	78	79	80	81	81	82	83	84	84	85	86		
	87	72	73	73	74	75	76	77	77	78	79	80	81	81	82	83	84	85	85	86	87		
	88	72	73	74	75	76	76	77	78	79	80	81	81	82	83	84	85	85	86	87	88		
	89	73	74	74	75	76	77	78	79	80	80	81	82	83	84	85	86	86	87	88	89		
	90	73	74	75	76	77	78	79	79	80	81	82	83	84	85	86	87	87	88	89	90		
	91	74	75	76	76	77	78	79	80	81	82	83	84	85	86	86	87	88	89	90	91		
	92	74	75	76	77	78	79	80	81	82	83	84	84	85	86	87	88	89	90				
	93	75	76	77	78	79	80	80	81	82	83	84	85	87	87	88	89	90					
	94	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90						
	95	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90							
	96	76	77	78	79	80	81	82	84	84	86	87	88	89	90	91							
	97	77	78	79	80	81	82	83	84	85	86	87	88	90	91								
	98	77	78	79	80	82	83	84	85	86	87	88	89	90									
	99	78	79	80	81	82	83	84	86	87	88	88	90				A	Aler	t				
	100	78	79	80	82	83	84	85	86	87	88	90	91				Г	Danger					
	105	80	82	83	84	86	87	89	90	91								- 4118	5°'				

For gathering, working, or hauling cattle you should check the forecast for temperature and humidity. If working or moving cattle and they begin to experience any signs of severe heat stress—such as rapid breathing or open-mouth panting—release them and call a veterinarian for assistance.





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