

KSHSAA RECOMMENDED ACTIVITY MODIFICATION POLICY Based on Wet Bulb Globe Temperature (WBGT)

- Each school should have a policy in place for appropriate activity modification during periods of excessive heat and humidity. The KSHSAA recommended policy is provided below.
- Activity modification decisions should be based on the wet bulb globe temperature (WBGT) which is the most reliable indicator in determining the overall risk of heat illness during athletic participation in periods of elevated heat and humidity. WBGT is a measure of air temperature, relative humidity, wind speed, sun angle, and cloud cover.
- ♦ Each school should have access to a WBGT monitor. Click HERE for information on selecting a device.
- In the absence of a WBGT monitor, a chart is provided with estimated WBGT levels based on air temperature and humidity.
- ♦ WBGT levels should be obtained anytime the ambient air temperature is 80 degrees or greater. Readings should be taken at the site of activity, 30-60 minutes before the activity begins, and approximately every 30 minutes during the activity.
- ♦ These recommended modifications should be applied to any activity taking place outdoors OR in un-airconditioned facilities.
- ♦ Regardless of your zone, all participants should have unrestricted access to water during activity participation.
- ♦ At-risk athletes should be monitored more closely when in any elevated zone.

WBGT LEVEL/ZONES	ACTIVITY MODIFICATION									
≤ 79.9° F	 Normal activities Provide at least 3 separate rest breaks each hour with a minimum duration of 3 minutes each. 									
80° - 84.6° F	 MINIMUM 3 separate rest breaks each hour with a minimum duration of 4 minutes each. Cold water immersion tub or other rapid cooling method should be prepared and ready. 									
84.7° - 87.7° F	 MINIMUM 4 separate rest breaks each hour with a minimum duration of 4 minutes each. 2 HOUR MAXIMUM length of practice (not including rest breaks) Cold water immersion tub or other rapid cooling method prepared and ready Consider competition alterations Coordinate with contest officials to allow for additional breaks Shorten length of sub-varsity competitions Shorten length of course (Cross Country) Football specific: Protective equipment should be limited to helmets and shoulder pads, and these should be removed for conditioning. If practice begins in a cooler range (green or yellow), but increases to orange during practice, players may continue practice in full protective gear. 									
87.8° - 89.7° F	 1 HOUR MAXIMUM length of practice (not including rest breaks) MINIMUM 20 minutes of rest breaks distributed throughout the 1 hour of practice Cold water immersion tub or other rapid cooling method prepared and ready Consider competition alterations Coordinate with contest officials to allow for additional breaks Shorten length of sub-varsity competitions Shorten length of course (Cross Country) Consider delaying practice/competitions until a cooler WBGT is reached Football specific: No protective equipment should be worn. No conditioning activities 									
≥ 89.8° F	No outdoor workouts. Delay practice/competitions until a cooler WBGT is reached.									

ESTIMATED WET BULB GLOBE TEMPERATURE CHART

- Use this chart in the absence of a WBGT monitor.
- ♦ Chart values are based on full sunlight and light wind.

												Te	mper	ature	in De	grees	Fahre	nheit													
	68.0	69.8	71.6	73.4	75.2	77.0	78.8	80.6	82.4	84.2	86.0	87.8	89.6	91.4	93.2	95.0	96.8	98.6	100.4	102.2	104.0	105.8	107.6	109.4	111.2	113.0	114.8	116.6	118.4	120.2	12
0	59.0	60.8	60.8	62.6	64.4	64.4	66.2	66.2	68.0	68.0	69.8	71.6	71.6	73.4	73.4	75.2	75.2	77.0	77.0	78.8	80.6	80.6	82.4	82.4	84.2	84.2	86.0	87.8	87.8	89.6	8
5	60.8	60.8	62.6	64.4	64.4	66.2	66.2	68.0	69.8	69.8	71.6	71.6	73.4	75.2	75.2	77.0	78.8	78.8	80.6	80.6	82.4	84.2	84.2	86.0	87.8	87.8	89.6	91.4	91.4	93.2	9
10	60.8	62.6	62.6	64.4	66.2	66.2	68.0	69.8	69.8	71.6	73.4	73.4	75.2	77.0	77.0	78.8	80.6	80.6	82.4	84.2	86.0	86.0	87.8	89.6	89.6	91.4	93.2	95.0	96.8	96.8	9
15	62.6	62.6	64.4	66.2	66.2	68.0	69.8	69.8	71.6	73.4	73.4	75.2	77.0	78.8	78.8	80.6	82.4	84.2	84.2	86.0	87.8	89.6	91.4	91.4	93.2	95.0	96.8	98.6	100.4	102.2	
20	62.6	64.4	64.4	66.2	68.0	69.8	69.8	71.6	73.4	75.2	75.2	77.0	78.8	80.6	80.6	82.4	84.2	86.0	87.8	89.6	89.6	91.4	93.2	95.0	96.8	98.6	100.4	102.2			
25	64.4	64.4	66.2	68.0	68.0	69.8	71.6	73.4	75.2	75.2	77.0	78.8	80.6	82.4	82.4	84.2	86.0	87.8	89.6	91.4	93.2	95.0	96.8	98.6	100.4	102.2					
30	64.4	66.2	68.0	68.0	69.8	71.6	73.4	73.4	75.2	77.0	78.8	80.6	82.4	84.2	84.2	86.0	87.8	89.6	91.4	93.2	95.0	96.8	98.6	102.2							
35	64.4	66.2	68.0	69.8	71.6	73.4	73.4	75.2	77.0	78.8	80.6	82.4	84.2	86.0	87.8	89.6	91.4	93.2	95.0	96.8	98.6	100.4	102.2								
40	66.2	68.0	69.8	69.8	71.6	73.4	75.2	77.0	78.8	80.6	82.4	84.2	86.0	87.8	89.6	91.4	93.2	95.0	96.8	98.6	100.4	102.2									
45	66.2	68.0	69.8	71.6	73.4	75.2	77.0	78.8	80.6	80.6	82.4	84.2	86.0	89.6	91.4	93.2	95.0	96.8	98.6	100.4											
50	68.0	69.8	71.6	73.4	73.4	75.2	77.0	78.8	80.6	82.4	84.2	86.0	87.8	91.4	93.2	95.0	96.8	98.6	102.2												
55	68.0	69.8	71.6	73.4	75.2	77.0	78.8	80.6	82.4	84.2	86.0	87.8	89.6	93.2	95.0	96.8	98.6	100.4							WBGT	> 104					
60	69.8	71.6	73.4	75.2	77.0	78.8	80.6	82.4	84.2	86.0	87.8	89.6	91.4	95.0	96.8	98.6	100.4								WBGI	> 104					
65	69.8	71.6	73.4	75.2	77.0	78.8	80.6	82.4	84.2	87.8	89.6	91.4	93.2	96.8	98.6	100.4															
70	71.6	73.4	75.2	77.0	78.8	80.6	82.4	84.2	86.0	87.8	91.4	93.2	95.0	96.8	100.4	102.2															
75	71.6	73.4	75.2	77.0	78.8	80.6	84.2	86.0	87.8	89.6	91.4	95.0	96.8	98.6	102.2																
80	73.4	75.2	77.0	78.8	80.6	82.4	84.2	86.0	89.6	91.4	93.2	96.8	98.6	100.4																	
85	73.4	75.2	77.0	78.8	82.4	84.2	86.0	87.8	89.6	93.2	95.0	98.6	100.4	102.2																	
90	75.2	77.0	78.8	80.6	82.4	84.2	87.8	89.6	91.4	95.0	96.8	98.6	102.2																		
95	75.2	77.0	78.8	80.6	84.2	86.0	87.8	91.4	93.2	95.0	98.6	100.4																			
100	75.2	78.8	80.6	82.4	84.2	87.8	89.6	91.4	95.0	96.8	100.4	102.2																			

REFERENCES

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