

WetBulb Globe Temperature



The WetBulb Globe Temperature (WBGT)

is a measure of the heat stress in direct sunlight, which takes into account: temperature, humidity, wind speed, sun angle and cloud cover (solar radiation).

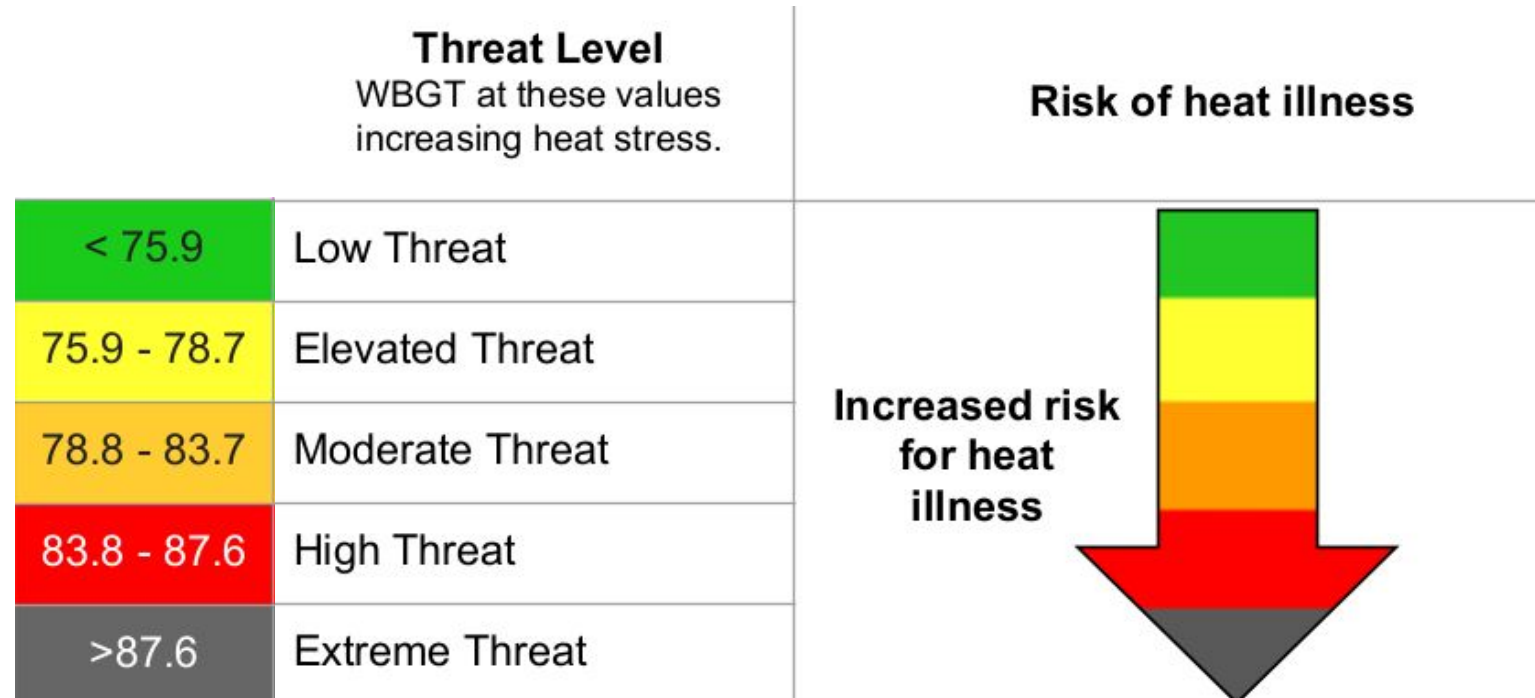
This differs from the heat index, which takes into consideration temperature and humidity and is calculated for shady areas.

HOW DOES WBGT differ from HEAT INDEX

WET BULB GLOBE TEMPERATURE
The Wet Bulb Globe Temperature (WBGT) is a parameter that estimates the effect of temperature, relative humidity, wind, and solar radiation on humans.

HEAT INDEX
The traditional measure of what the temperature feels like to the human body when relative humidity is combined with the air temperature, also known as apparent temperature.

	WBGT	HEAT INDEX
Measured in the sun	●	●
Measured in the shade	●	●
Uses temperature	●	●
Uses relative humidity	●	●
Uses wind	●	●
Uses cloud cover	●	●
Uses sun angle	●	●



Regional heat safety thresholds for athletics in the the contiguous United States:
https://ksi.uconn.edu/wp-content/uploads/sites/1222/2018/08/RegionalWBGT_2015_AppliedGeography.pdf

NOTE: These are the Category/Region 2 thresholds that are being used for the NYS WBGT graphics

If you work or exercise in direct sunlight, WBGT is a good element to monitor.

Military agencies, OSHA and many nations use the WBGT as a guide to managing workload in direct sunlight.

