



UNDERSTANDING WET BULB TEMPERATURES



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How does the wet bulb rating work and how relevant is it in sporting situations?

It is important to understand the wet bulb rating particularly during extreme heat. The key points are;

- The body always produces excess heat through metabolism, i.e. a by-product of physical activity is heat.
- The greater the intensity of the activity, the more heat is produced.
- The body's cooling processes include, perspiration, radiation and convection (movement of air across the skin)
- **The higher the air temperature and humidity levels, the harder it is for the body to lose heat.** You can reach the point where a combination of dry temperature (actual air temperature) & humidity exceed the body's ability to lose heat and cool itself. Thus the **Wet Bulb** rating is a more accurate indicator of heat stress to players.

Wet Bulb Temperature graph

*This graph is a guide only. Please use the [Bureau of Meteorology](#) for up-to-date information.

		Wet Bulb Globe Temperature (WBGT) from Temperature and Relative Humidity																														
		Temperature (°C)																														
Relative Humidity (%)	0	15	16	16	17	18	18	19	19	20	20	21	22	22	23	23	24	24	25	25	26	27	27	28	28	29	29	30	31	31	32	32
	5	16	16	17	18	18	19	19	20	21	21	22	22	23	24	24	25	26	26	27	27	28	29	29	30	31	31	32	33	33	34	35
	10	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	27	27	28	29	30	30	31	32	32	33	34	35	36	36	37
	15	17	17	18	19	19	20	21	21	22	23	23	24	25	26	26	27	28	29	29	30	31	32	33	33	34	35	36	37	38	39	
	20	17	18	18	19	20	21	21	22	23	24	24	25	26	27	27	28	29	30	31	32	32	33	34	35	36	37	38	39			
	25	18	18	19	20	20	21	22	23	24	24	25	26	27	28	28	29	30	31	32	33	34	35	36	37	38	39					
	30	18	19	20	20	21	22	23	23	24	25	26	27	28	29	29	30	31	32	33	34	35	36	37	39							
	35	18	19	20	21	22	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39								
	40	19	20	21	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39									
	45	19	20	21	22	23	24	25	26	27	27	28	29	30	32	33	34	35	36	37	38											
	50	20	21	22	23	23	24	25	26	27	28	29	30	31	33	34	35	36	37	39												
	55	20	21	22	23	24	25	26	27	28	29	30	31	32	34	35	36	37	38													
60	21	22	23	24	25	26	27	28	29	30	31	32	33	35	36	37	38															
65	21	22	23	24	25	26	27	28	29	31	32	33	34	36	37	38																
70	22	23	24	25	26	27	28	29	30	31	33	34	35	36	38	39																
75	22	23	24	25	26	27	29	30	31	32	33	35	36	37	39																	
80	23	24	25	26	27	28	29	30	32	33	34	36	37	38																		
85	23	24	25	26	28	29	30	31	32	34	35	37	38	39																		
90	24	25	26	27	28	29	31	32	33	35	36	37	39																			
95	24	25	26	27	29	30	31	33	34	35	37	38																				
100	24	26	27	28	29	31	32	33	35	36	38	39																				

Note: This table is compiled from an approximate formula which only depends on temperature and humidity. The formula is valid for full sunshine and a light wind

Wet Bulb readings

For Wet Bulb readings in Victoria, [click here](#).

Please Note: The WBGT Shade column is the column to use on the BOM website. To find the weather station you should look at, it is the closet station in a straight line from your city/town.

More information

For more information check out the [Tennis Australia Extreme Weather Policy here](#)

