

Wet Bulb Globe Temperature (WBGT) Heat Index Flag Conditions

*Bioenvironmental Engineering (BE) provides heat index readings from 1 May – 1 September. Readings are called into the Command Post from 0900-1500 daily, and disseminated to the Maintenance Operations Center (MOC), Civil Engineering Production Control, and the Base Defense Operations Center (BDOC). If readings are still above 90 at 1500, BE will continue to monitor until the heat index condition is no longer black flag.

Guidelines for Average Acclimatized Individual Wearing BDU/ABU or Standard Clothing

Heat Stress Category	WBGT (F)	EASY WORK		MODERATE WORK		HARD WORK	
		Work Rest Cycle	Water Intake Qt/hr	Work Rest Cycle	Water Intake Qt/hr	Work Rest Cycle	Water Intake Qt/hr
1	78 - 81.9	No Limit	0.5	No Limit	0.75	40/20 min	0.75
2	82 - 84.9	No Limit	0.5	50/10 min	0.75	30/30 min	1.0
3	85 - 87.9	No Limit	0.75	40/20 min	0.75	30/30 min	1.0
4	88 - 89.9	No Limit	0.75	30/30 min	0.75	20/40 min	1.0
5	> 90	50/10 min	1.0	20/40 min	1.0	10/50 min	1.0

Guidelines for Average Unacclimatized Individual Wearing BDU/ABU or Standard Clothing

Heat Stress Category	WBGT (F)	EASY WORK		MODERATE WORK		HARD WORK	
		Work Rest Cycle	Water Intake Qt/hr	Work Rest Cycle	Water Intake Qt/hr	Work Rest Cycle	Water Intake Qt/hr
1	78 - 81.9	No Limit	0.5	50/10 min	0.75	30/30 min	0.75
2	82 - 84.9	No Limit	0.5	40/20 min	0.75	30/30 min	1.0
3	85 - 87.9	No Limit	0.75	30/30 min	0.75	20/40 min	1.0
4	88 - 89.9	50/10 min	0.75	20/40 min	0.75	10/50 min	1.0
5	> 90	40/20 min	1.0	10/50 min	1.0	Not allowed	Not applicable

Guide to Determination of Workload

EASY WORK	MODERATE WORK	HARD WORK
--Walking on hard surface @ 2.5 mph with \leq 30 lb load --Weapon maintenance --Manual arms --Marksmanship training --Drill and ceremony --Tower operations --Operations NCOs/officers --Pilot ground activities --Command post and unit control center activities	--Walking on hard surface @ 3.5 mph < 40 lb load --Walking on loose sand at 2.5 mph with no load --Patrolling --Low crawl, high crawl --Defensive position construction --Calisthenics --Refueling --Avionics shop --Aircraft maintenance --Unit post attack reconnaissance	--Walking on hard surface @ 3.5 mph with \geq 40 lb load --Walking on loose sand @ 2.5 mph with load --Heavy aircraft repair --Specialized teams such as NBC Reconnaissance, Search and Rescue, Rapid Runway Repair, CCA, Fire Protection, Decontamination, Medical, Damage Assessment and Repair, EOD

Contact Information for Bioenvironmental Engineering: MSgt Cally Handa, 295-6190, cally.handa@ang.af.mil
 MSgt Kristeen Jones, 295-6110, kristeen.jones@ang.af.mil