## Work/Rest Periods During Hot Weather (Using Wet Bulb Globe Temp)\*

			Light Work		Moderate Work		Heavy Work	
Heat Risk Category		WBGT °F	Work/Rest Water Intake		Work/Rest Water Intake		Work/Rest Water Intake	
			(minutes)	(quarts per hr)	(minutes)	(quarts per hr)	(minutes)	(quarts per hr)
No Risk		78 - 81.9	continuous	··· ·	continuous	· · · · · · · · · · · · · · · · · · ·	50/10	3/4
Low			continuous	1/2	50/10	3/4	40/20	1
Moderate		85 - 87.9	continuous	3/4	40/20	3/4	30/30	1
High		88 - 89.9	continuous	3/4	30/30	3/4	20/40	1
Extreme		>90	50/10	1	20/40	1	10/50	1
<ul> <li>* Recommendations given above are for fit, healthy, hydrated humans fully clothed with lightweight summer working clothes.</li> <li>• Workers that do not fit this description may require longer rest times and increased hydration.</li> <li>• Heat acclimation typically takes 5 days of heat exposure. Start at 20% of full exposure on Day 1 and increase by 20% each day.</li> <li>If wearing items listed below then add this number (Clothing Adjustment Factor) to the WBGT to get the Effective WBGT.</li> <li>• Breathable SMS Polypropylene coveralls: Add 0.5°F</li> <li>• Micro-porous fabric (e.g., Tyvek): Add 1°F</li> <li>• Cotton overalls (or 2 layers of woven clothing): Add 3°F</li> </ul>								
• Full-body, impermeable, protective clothing (e.g., whole-fully chemical protective suite, firefighter turn-out gear): Add 11°F ** Heat acclimation typically takes 5 days of heat exposure. Start at 20% of full exposure on Day 1 and increase by 20% each day.								
Work Level			y Examples	osule. Stalt at 2		From MN Rules		
Light	Sitting with minimal hand and arm work; writing/draw Stooping, crouching, kneeling Driving on paved surface; operating equipment Using light hand tools (wrench, pliers); however, this my be moderate work depending on the task Occasional or slow walking (2 mph) on hard surface				Ventilation and Temperature): "Employees shall not be exposed to indoor environmental heat conditions in excess of the values listed in Table 1." Table 1. Two-hour time-weighted average			
	Mopping or Scrubbing di Laundry/dry Pushing lawn Pushing or p Raking; Scra General carpo	vacuuming f rty surfaces cleaning n mower on l ulling light ping, paintin entry; using .ipment/supp	loors evel surface carts ng, or plasterin hand tools for blies weighing	s surface r plastering tools for short periods weighing 20-40 pounds		permissible heat <u>Work Ac</u> Heav Moder Ligh Heavy Work = 3 Moderate Work Light Work = up	<u>exposure lim</u> tivity y rate at 50 or higher k = 200 to 350 k	its. WBGT. °F 77 80 86 cal/hr ccal/hr
Heavy	Waxing and buffing by hand Pushing or pulling heavy carts or v Heavy item assembly Sawing of heavy carpentry Using hand tools for extended peri shoveling; landscaping) Carrying equipment/supplies weig Manual raising and lowering loads Walking > 4 mph on hard surface Any activity done at/near maximur Intense climbing of stairs, ladder Intense shoveling or digging Sledghammer use Brick or stone masonry			(digging or over 40 pounds	OSHA Heat Stress and Heat Hazard. Assessment (using WBGT and Metabolic. Work Rate) can be found here. Figure 4. ACGIH TUV & Action Limit Source: ACGIH "2017 TLV's and BEIs" FIGURE 2			

 $Adapted\ from\ https://www.mesonet.org/images/site/WBGT\_Mesonet\_Work\_Rest\_Info.May2016.pdf$