

Occupational Heat Exposure Regulations for Agricultural Businesses in the Western US

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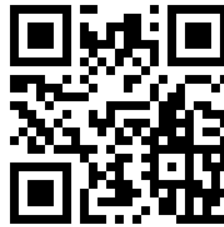
	US OSHA	CA	WA	OR	CO
Effective Date	Recommendations	Aug. 22, 2005 May 1, 2015 (current)	May 1, 2009 July 13, 2021 (High heat)	July 8, 2021	May 1, 2022
Industries Applicable	All	Agriculture + 4 outdoor industries	All outdoor workers	All outdoor workers	Agriculture
Min. Temperature Action Level		80°F	52°F – Vapor barrier clothing 77°F – Double-layer woven clothing 89°F – All others	80°F Heat index	80°F
WATER	✓	✓, all temperatures	✓	✓	✓
Temperature	Cool (50°F-60°F)	Suitably cool	Suitably cool	77°F or cooler (cool or cold)	60°F or cooler
Volume	8oz/20 minutes = 32oz (1 qt)/hour	-----	32oz (1 qt) per employee per hour-----		
Location		Reasonably close	Readily accessible	Readily accessible	Within 0.25 miles by foot
Electrolyte Beverages	✓ for jobs >2 hours		✓ caffeine free	✓ caffeine free	
REST	'Frequent' - Frequent and long enough to recover from heat <i>Refer to NIOSH & ACGIH for recs on appropriate lengths of work and rest cycles</i>	-----	Provided in separate law/rule -----		
Frequency		-- Paid rest: 10 min. per 4 hours worked; Unpaid meal after 5 hours (6 for Oregon); Add'l by state --			
Employee-Initiated Cool Down Break		✓ in heat regulation	✓ in heat regulation		✓ in heat regulation
SHADE	✓	✓, at request when <80°F	<i>Only during high heat</i>	✓	✓
Environment	Cool location: shaded, cooled	Open air, ventilated, cooled	Open air, ventilated, cooled	Open air, ventilated, cooled	Open air, ventilated
Location		As close as practicable	As close as practicable	As close as practicable	Within 0.25 miles by foot
Size – Accommodates...		Everyone on a break while in a seated position without touching	Everyone on a break	Everyone on a break while in a seated position	Everyone on a break while in a seated position without touching
Other Cooling Methods	✓	✓ with demonstrated effectiveness	✓ sufficient means of cooling	✓ equivalent protection	✓ equivalent protection
TRAINING	✓ + specific supervisor training	✓ + specific supervisor training	✓ + specific supervisor training	✓	✓
		<i>All states require training on the following topics: -----</i> Signs, symptoms, prevention, and first aid (emphasis on specific prevention activities varies) Risk factors (personal, environmental) Employer responsibilities and employee rights Acclimatization			

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SAFETY PROCEDURES	Monitor/receive reports of HRI Implement engineering and admin controls	Communication availability Emergency response plan, act	Encourage hydration Respond to signs and symptoms		Communication availability Monitor/receive reports of HRI Emergency response plan, act
Written Plan	✓	✓	✓		
Acclimatization Plan	✓ gradually increase work or more frequent breaks during first week	✓		<i>Only during high heat</i>	<i>Considered in increased risk conditions</i>
INCREASED RISK CONDITIONS	As heat stress rises	High heat – 95°F <i>Added in 2015</i>	Extreme high heat – 100°F <i>Added in 2021</i>	High heat – 90°F	High heat – 95°F Poor air quality Heavy clothing Long workday, 12+ hrs Unacclimated, <4 days on the job
↑ Rest - 10 min/2 hours	✓ frequency specific to work and environmental heat	✓	✓	✓	✓
Other Procedures		Monitor/receive reports of HRI Provide reminder of rights Extra water reminders	Provide shade	Communication availability Monitor/receive reports of HRI Emergency response plan, act Acclimatization	Provide reminder of rights Provide fans/AC in employer-provided housing (<i>high heat only</i>)
OTHER	Covered by General Duty Clause	Observation during heat wave	Applies May 1-September 30		Specific rules for range workers



Heat Illness Prevention Resources
Training guide, training aids, posters, pocket first aid card
 Western Center for Agricultural Health and Safety
 University of California, Davis

<https://aghealth.ucdavis.edu/training/heat-illness>



Heat Illness Prevention Resources
 Occupational Safety and Health Administration (OSHA)

<https://www.osha.gov/heat-exposure/resources>



Heat Illness Prevention Resources
Training guide, training aids, posters, review games
 Pacific Northwest Agricultural Safety and Health Center
 University of Washington

<https://deohs.washington.edu/pnash/heat-toolkit>

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