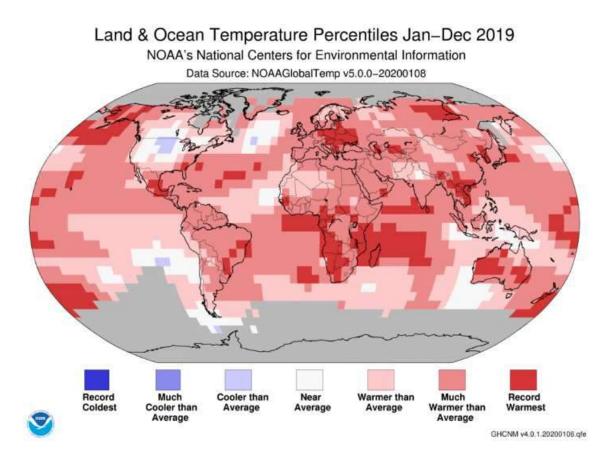


# A REAL PROBLEM

## **GLOBAL TEMPERATURE TREND**



#### **Quick Stats:**

- 2019 ranked as 2<sup>nd</sup> warmest year on record, behind 2016
- > 2.07°F / 1.15°C above average

### **High Annual Temp Regions:**

- Central Europe
- > Asia
- Australia & New Zealand
- Southern Africa & Madagascar
- North America
- Eastern South America



# **FACTS**

FATALATIES DUE TO ENVIRONMENTAL HEAT

**UNITED STATES // 2018** 



IN 2018 3,950 HEAT RELATED OVER LAST 3 YEARS



# **OVERVIEW**DEFINING HEAT STRESS

Ability to control internal body temperature starts to fail.

- ➤ Body temps rise above 99.7°F (37.6°C)
- Severe illness occurs when body temperature reaches 104°F (40°C)





# HEAT STRESS

## WHAT IS A HEAT-RELATED ILLNESS?



### **Heat-Related Illness (HRI)**

- ▶ Heat Rash
- ➤ Heat Cramps
- Heat Exhaustion
- ➤ Heat Stroke





SIGNS: Pale skin, nausea, vomiting, confusion. Fever 104' or higher.

TREATMENT: Medical emergency, Call 911. Remove heavy clothing, Brink small amounts of water/electrolytes.

PREVENTION: Acclimatization. Drink plenty of water/ electrolytes. Medical screening, training, and edu.



SIGNS: Headaches, weakness, mood change, feeling sick. Extreme sweating, pale clammy skin.

TREATMENT: Move to cool, shaded area and loosen heavy clothing. Drink cool water/electrolytes.

PREVENTION: Acclimatization, Drink plenty of water/ electrolytes, Training and education.



SIGNS: Painful spasms usually in legs or abdomen. Possibly heavy sweating.

TREATMENT: Apply firm pressure and massage cramped area. Rest in cool place and drink water. Seek medical attention if cramping is severe.

PREVENTION: Adequate water and salt intake, Training and education.



SIGNS: Red blister-like eruptions/bumps. Itching sensation.

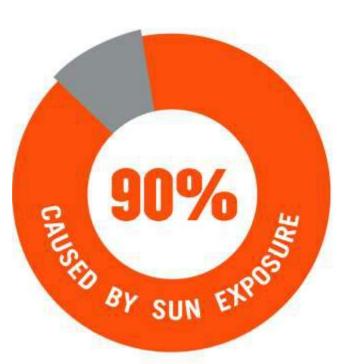
TREATMENT: Rest in cool place. Allow skin to dry.

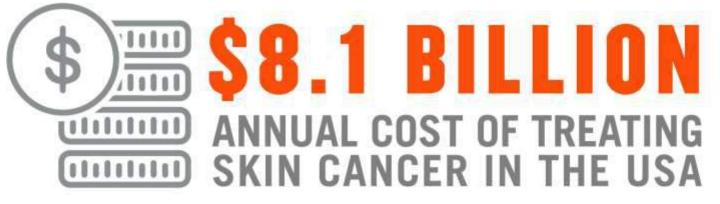
PREVENTION: Shower after working in hot environment. Keep skin dry. Training and education.



UNITED STATES // 2018

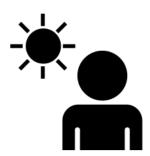
# 3 MILLION AMERICANS DIAGNOSED WITH SKIN CANCER





CASES OF SKIN CANCER RISING 10% ANNUALLY





# SUN EXPOSURE

## A GROWING DANGER

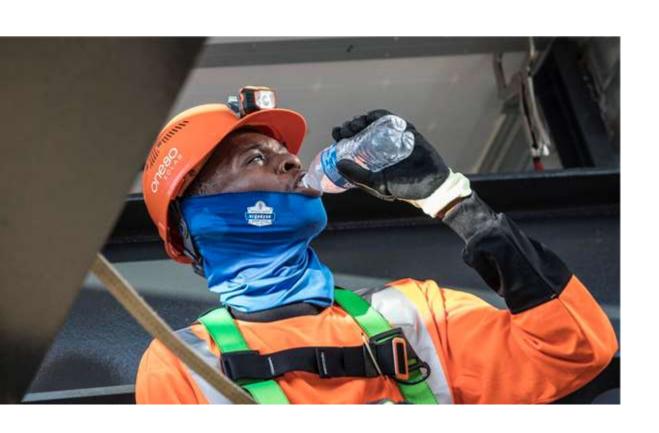
Outdoors workers are often exposed to harmful UVA/ UVB rays during both summer and winter months. Exposure can be for hours on end, during times when the sun's rays are most intense.

- Outdoor workers are 3.5 times more likely to develop skin cancer.
- Sun protection PPE helps, but won't block harmful rays from all areas of the body.







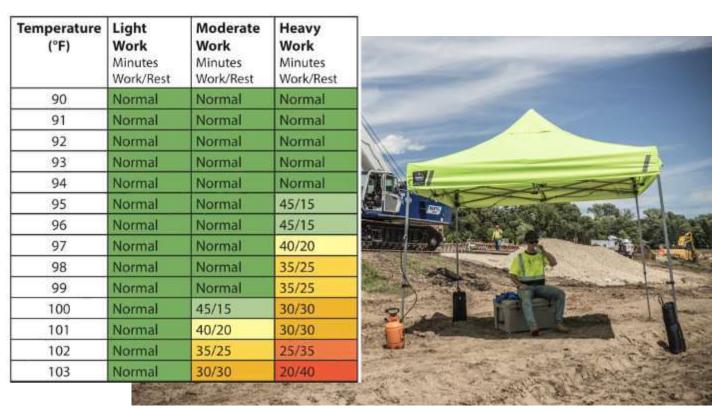




Workers should always be allowed and encouraged to take a cool-down break in the shade when they need one.

#### Shaded rest areas should:

- Have access to cool, clean water
- Be properly ventilated
- Accommodate every worker
- Provide an opportunity to check for HRI symptoms
- Be included as part of a preventative work/rest schedule



<sup>\*</sup> From NIOSH Criteria for a Recommended Standard, Occupational Exposure to Heat and Hot Environments, https://www.cdc.gov/niosh/docs/2016-106/pdfs/2016-106.pdf. **Assumptions:** workers are physically fit, well-rested, fully hydrated, under age 40, and environment has 30% humidity and perceptible air movement.











Cooling PPE is designed to transport moisture, cool pulse points, block sunlight or reduce direct sun exposure.

#### **Cooling PPE examples include:**

- Evaporative cooling towels
- Evaporative cooling vests
- Evaporative cooling neck shades
- Evaporative cooling sleeves

UV Index	Description	Recommended Protection	Sun Burn Time
0-2	No danger to the average person	Wearing a Hat and/or Sunglasses is Sufficient.	1 Hour+
3-5	Little risk of harm from unprotected sun exposure	Wear a Hat and Sunglasses. Use SPF 15+ Sunscreen.	40 Minutes
6-7	High risk of harm from unprotected sun exposure	Wear a Hat and Sunglasses. Use SPF 30+ Sunscreen. Cover the Body With Clothing. Avoid the Sun if Possible.	30 Minutes
8-10	Very risk of harm from unprotected sun exposure	Wear a Hat and Sunglasses. Use SPF 30+ Sunscreen. Cover the Body With Clothing. Avoid the Sun if Possible.	20 Minutes
11+	Extreme risk of harm from unprotected sun exposure	Take All Precautions Possible. It is Advised to Stay Indoors.	Less Than 15 Minutes

#### OSHA'S recommendations for for sunexposed workers:

- Cover up with loose-fitting, long-sleeve shirts and pants
- Use sunscreen with an SPF of at least 30
- Wear a wide brim hat to protect neck, ears, eyes, forehead, nose and scalp
- Wear UV-absorbent sunglasses
- ➤ Limit exposure UV rays are most intense between 10 a.m. and 4 p.m.



# NEW FOR 2020 PRODUCT

# HEAT STRESS SOLUTIONS

RELIEF IS CALLING. BETTER PICK UP // WWW.ERGODYNE.COM

#### VALI // SAFETY GLASSES

Lightweight, single-lens safety glasses meet ANSI and CSA Impact Requirements and blocks 99.9% of harmful UV rays.

#### 6487 // COOLING MULTI-BAND

Soft, durable, performance knit fabric wicks moisture when dry and cools when wet. Also provides UPF 50+ protection from UV rays.

#### 3775L // WATER BOTTLE/CANISTER TRAP - LARGE

Neoprene main material with buckle closure accommodates our 5151, 5152 water bottles or standard 1L bottles/canisters.



#### 6667 // PVA COOLING VEST

This super-evaporative vest with breathable mesh side panels activates quickly and remains cool for up to 4 hours.

#### 7022 // A2 NITRILE COATED DSX GLOVES

ANSI A2 cut protection gloves are touchscreen capable and offer superior grip in dry handling conditions.

#### 5170 // 17 QT (16L) JOBSITE COOLER

This cooler will keep 18 cans cold for up to 30 hours and holds up to 300 lbs. of seating during breaks.

#### KREW'D

SPF 50 SUNSCREEN 6352 // 1.5oz LOTION

6354 // 1.5oz STICK 6353 // 5.5oz SPRAY

6351 // 8oz LOTION 6355 // 32oz LOTION



6352

#### 6702 **COOLING BANDANA W/** EMBEDDED POLYMERS



5171 48QT (45L) JOBSITE COOLER

PART # 99855-2020

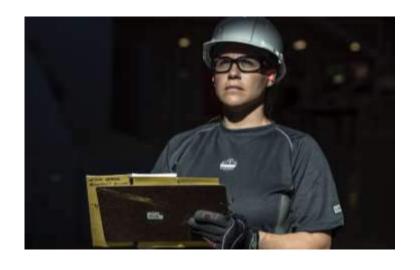
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