

Vulnerability Code Key									Climate Hazard Key						
A	B	T	E	R	N	H	L	W							
Agriculture	Buildings and Landscape	Business, Recreation, Tourism	Ecosystems	Emergency Prep. and Response	Energy	Health	Land Use Planning	Water	Wildfire	Wildfire Smoke	Higher temperatures	Drier summers and drought	Wetter winters/springs + flooding	Climate variability	Population increase and climate migration

	ID	Goal + Strategy	Vulnerability Code + Climate Hazard	Mitigation Benefit
wildfire smoke, heat, + health	A	Improve indoor air quality in homes during wildfire smoke events.	B10, T9, R3, R7, H14, H15, H18, H19, H20, H21	
	1	Educate homeowners about options to create safe indoor air (MERV 13 air filters, portable air cleaners).	     	
	2	Make portable air cleaners more accessible.	     	
	B	Improve indoor air quality in (and access to) public and commercial buildings during wildfire smoke and heat events.	B10, T9, R3, R7, H2, H14, H15, H18, H19, H20, H21	
	3	Develop voluntary measures and incentives, such as a certification program for clean air buildings, to encourage safe indoor air in public buildings, schools, and businesses.	     	
	4	Find, develop and promote indoor recreation, exercise and creative activity spaces that are available to individuals and recreational programs (youth and adult) that are accessible to all income levels.	     	
	C	Improve health and safety of outdoor workers during heat and smoke events.	B10, T9, R3, R7, H2, H14, H15, H18, H19, H20, H21	
	5	Encourage employers to change workplace environment to reduce wildfire smoke and heat exposure, for example by adapting work hours, following Cal/OSHA guidance and/or providing pop-up clean air shelters and/or appropriate safety equipment (Personal Protective Equipment - PPE) for employees.	     	
	D	Increase awareness of physical health impacts of wildfire smoke, heat, and their intersection.	T9, H2, H3, H14, H15, H19, H20	
	6	Conduct an educational campaign about air quality data, health risks of wildfire smoke, connection between smoke and heat, and activity guidelines.	     	
	7	Collaborate with healthcare providers to develop and promote wildfire smoke exposure checklist; educate providers who are unaware.	     	
	8	Encourage healthcare providers to work with sensitive subgroups to reduce controllable exposures (smoking, radon) and have a plan in place before wildfire smoke arrives.	     	

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	ID	Goal + Strategy	Vulnerability Code + Climate Hazard	Mit. Benefit	
wildfire smoke, heat, + health	9	Coordinate education efforts to consider best health practices during concurrent heat and smoke events.	      		
	10	Conduct an educational campaign about the prevention of and signs of heat related illness for the most vulnerable populations.	      		
	11	Conduct an educational campaign for healthcare, public safety, and emergency response communities about the connection between heat and aggression.	      		
	E	Increase awareness of mental health impacts of climate change.	A13, T9, H18, H20, H21		
	12	Educate the public and healthcare providers about the mental health impacts of wildfire smoke and other climate vulnerabilities, including those specific to agricultural community.	      		
	F	Increase healthcare system capacity to respond to wildfire smoke events, wildfires, floods, and other climate impacts.	H3, H20		
buildings, land use, + transportation	13	Assess existing mental health resources and increase as needed, such as network of providers, integration with general practitioners and emergency responders, screenings, and capacity of inpatient and outpatient care, scalable to smoke events.	      		
	G	Balance competing land use needs in the context of population growth.	A21, B7, T3, E21		
	14	Consider, and ultimately incorporate, climate migration in population growth projections in growth policy and other planning efforts.	      		
	15	Ensure that city and county land use plans adequately protect habitat, open space, and agricultural land.	      		
	16	Encourage urban gardens and small-scale agriculture to preserve the ability to grow food in Missoula County.	      		
17	Protect strategically important private lands with conservation easements and acquisition.	      			

A1: Educate Missoula County residents about options to create safe indoor air.



The first Wildfire Smoke Ready Week was hosted in July 2021 with in-person events, media and social media campaigns, and interagency coordination.

- Partners**
*indicates lead implementer(s)
Missoula City-County Health Department
Climate Smart Missoula
Missoula County Sustainability
 United Way of Missoula County
 Missoula County OEM
 International Rescue Committee
 Community Food and Agriculture Coalition

- Interconnections**
- Farmer and rancher support network
 - Preventative health measures
 - Implement and incentivize more energy efficient building practices

- Metrics**
Indicates future metric to measure
- Wildfire Smoke Ready Week established
 - # of residents spoken to
 - % of residents who understand how to create safe indoor air

A2: Make portable air cleaners more accessible.



Climate Smart Missoula and Missoula Food Bank established a new partnership for distributing box fan + filter combos directly to Missoulians in need, free of charge. Pilot studies are in pre-planning for a similar distribution model with Partnership Health Center.

- Partners**
*indicates lead implementer(s)
Climate Smart Missoula*
Missoula Food Bank*
 Missoula County Sustainability
 University of Montana
 Partnership Health Center

- Interconnections**
- Preventative health measures
 - Prescribed fire
 - Interagency approach to fire management
 - Climate resilient business hub

- Metrics**
Indicates future metric to measure
- # of filters distributed
 - # of people at 50% AMI who have received filters
 - # of BIPOC residents who have received filters

B3: Develop voluntary measures and incentives, such as a certification program for clean air buildings, to encourage safe indoor air in public buildings, schools, and businesses.



This strategy has not yet been initiated. Below are suggested partners, metrics, and interconnections.

- Partners**
***indicates lead implementer(s)**
 Missoula County Sustainability
 City of Missoula Climate Action
 Missoula City-County Health Dept.
 City of Missoula Parks and Recreation
 Missoula Downtown Association
 Missoula Chamber of Commerce
 Mountain Line

- Interconnections**
- Preventative health measures
 - Prescribed fire
 - Interagency approach to fire management
 - Climate resilient business hub

- Metrics**
Indicates future metric to measure
- Indoor PM 2.5 levels during smoke events
 - # of homes within a .5 mile radius to clean air shelter
 - # of certified buildings within .1 mile of bus stop

B4: Find, develop and promote indoor recreation, exercise and creative activity spaces that are available to individuals and recreational programs that are accessible to all income levels.



This strategy is in pre-planning. A future flagship project is the expansion of Currents, led by City of Missoula Parks and Recreation.

- Partners**
***indicates lead implementer(s)**
City of Missoula Parks and Rec.
 City of Missoula Climate Action
 Missoula County Sustainability
 Missoula Downtown Association
 Missoula Chamber of Commerce

- Interconnections**
- Preventative health measures
 - Energy efficient buildings
 - Climate resilient business hub
 - Multi-modal transportation

- Metrics**
Indicates future metric to measure
- Indoor PM 2.5 levels during smoke events
 - # of homes within a .5 mile radius to clean air indoor rec
 - # of indoor rec centers within .1 mile of bus stop

C5: Encourage employers to change workplace environment to reduce wildfire smoke and heat exposure.



This strategy is in pre-planning. Pilot outreach to employers has begun via our agriculture implementation partners and building & construction implementation partners.

- Partners**
*indicates lead implementer(s)
- Climate Smart Missoula
 - Community Food and Agriculture Coalition
 - Missoula County Sustainability
 - City of Missoula Climate Action
 - Missoula Downtown Association
 - Missoula Chamber of Commerce

- Interconnections**
- Preventative health measures
 - Farmer/rancher network
 - Energy efficient building
 - Urban heat island effect

Metrics
Indicates future metric to measure
TBD as strategy is developed.

D6: Conduct an educational campaign about air quality data, health risks of wildfire smoke, connection between smoke and heat, and activity guidelines.



The first Wildfire Smoke Ready Week was hosted in July 2021 with in-person events, media and social media campaigns, and interagency coordination to increase awareness and understanding of ways to stay healthy during periods of wildfire smoke and heat.

- Partners**
*indicates lead implementer(s)
Missoula City-County Health Dept.
Climate Smart Missoula
Missoula County Sustainability
 United Way of Missoula County
 Missoula County OEM
 International Rescue Committee
 Community Food and Agriculture Coalition

- Interconnections**
- Preventative health measures
 - Farmer/rancher network
 - Energy efficient building

- Metrics**
Indicates future metric to measure
- Wildfire Smoke Ready Week established
 - # of residents spoken to
 - % of residents who understand air quality data

D7: Collaborate with healthcare providers to develop and promote wildfire smoke exposure checklist; educate providers who are unaware.



University of Montana educators have established a new course on climate change and human health in Montana, aimed at health professionals training in the state.

- Partners**
*indicates lead implementer(s)
University of Montana
Partnership Health Center
 Montana Health Professionals for a Healthy Climate

- Interconnections**
- Preventative health measures

- Metrics**
Indicates future metric to measure
- # of health professionals who have participated in climate training
 - % of health professionals who feel confident discussing climate change

D8: Encourage healthcare providers to work with sensitive subgroups to reduce controllable exposures and have a plan in place before wildfire smoke arrives.



A pilot project for reducing controllable exposures and direct distribution of portable air cleaners at Partnership Health Center will begin in the late summer of 2021.

Partners
*indicates lead implementer(s)
University of Montana
Partnership Health Center
Missoula County Sustainability
Montana Health Professionals for a Healthy Climate

Interconnections

- Preventative health measures

Metrics
Indicates future metric to measure

- # of PACs distributed directly to patients
- # of participating pharmacies in distribution network
- # of people who use a prescription to secure a PAC

D9: Coordinate education efforts to consider best health practices during concurrent heat and smoke events.



The first Wildfire Smoke Ready Week was hosted in July 2021 with in-person events, media and social media campaigns, and interagency coordination to increase awareness and understanding of ways to stay healthy during periods of wildfire smoke and heat.

Partners
*indicates lead implementer(s)
Missoula City-County Health Dept.
Climate Smart Missoula
Missoula County Sustainability
United Way of Missoula County
Missoula County OEM
International Rescue Committee

Interconnections

- Preventative health measures
- Implement and incentivize more energy efficient building practices

Metrics
Indicates future metric to measure

- Database of shareable resources created
- % of Missoulians who understand what to do during heat and smoke

D10: Conduct an educational campaign about the prevention of and signs of heat related illness for the most vulnerable populations.



This strategy is in pre-planning. Climate Smart Missoula’s “Summer Smart” program has developed a library of shareable materials for heat related illness. The Temporary Safe Outdoor Space has begun working with residents to stay cool during extreme heat.

- Partners**
***indicates lead implementer(s)**
 Missoula City-County Health Dept.
 Missoula County OEM
 Missoula Fire Department
 Missoula Police Department
 Missoula County Sherriff
 Climate Smart Missoula
 United Way of Missoula County
 Missoula County Sustainability

- Interconnections**
- Preventative health measures
 - Implement and incentivize more energy efficient building practices

Metrics
Indicates future metric to measure
 TBD

D11: Conduct an educational campaign for healthcare, public safety, and emergency response communities about the connection between heat and aggression.



This strategy has not yet been initiated. Below are suggested partners, metrics, and interconnections.

- Partners**
***indicates lead implementer(s)**
Missoula City-County Health Dept.
Missoula County OEM
Missoula Fire Department
Missoula Police Department
Missoula County Sherriff
 City of Missoula Climate Action
 Missoula County Sustainability

- Interconnections**
- Preventative health measures
 - Implement and incentivize more energy efficient building practices

Metrics
Indicates future metric to measure

- # of training sessions held with targeted communities
- Protocol enacted during extreme heat

E12: Educate the public and healthcare providers about the mental health impacts of wildfire smoke and other climate vulnerabilities, including those specific agricultural community.



A pilot project of mental health first aid workshops will debut in fall of 2021.

- Partners
- *indicates lead implementer(s)
 - Missoula County Sustainability
 - University of Montana
 - Partnership Health Center
 - Climate Smart Missoula
 - Home ReSource

- Interconnections
- Preventative health measures

- Metrics
- Indicates future metric to measure
- # of training sessions held
 - # of participants
 - % of participants who feel confident in their mental health first aid skills

F13: Assess existing mental health resources and increase as needed, scalable to smoke events.



A pilot project of mental health first aid workshops will debut in fall of 2021. Given constraints on existing and future capacity, this program will train everyday citizens to care for one another with basic mental health first aid.

- Partners**
*indicates lead implementer(s)
- Missoula County Sustainability
 - University of Montana
 - Partnership Health Center
 - Climate Smart Missoula
 - Home ReSource

- Interconnections**
- Preventative health measures

- Metrics**
Indicates future metric to measure
- # of training sessions held
 - # of participants
 - % of participants who feel confident in their mental health first aid skills