Climate Change and Health Impacts in New Mexico: Opportunities for Family Medicine

Paul Charlton, MD, MA

NM Association of Family Physicians Winter Conference

February 22, 2025

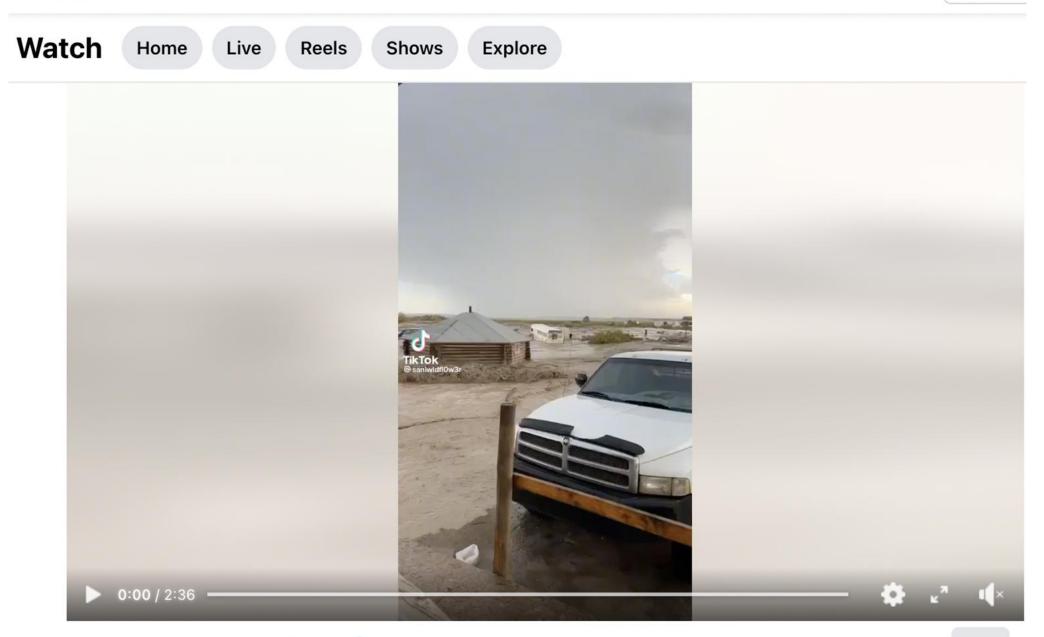




- 1. Understand and communicate the **health risks** from our changing climate to individuals and communities in New Mexico.
- 2. Identify best-practice **climate adaptation measures** to increase the health resilience for clinic patients.
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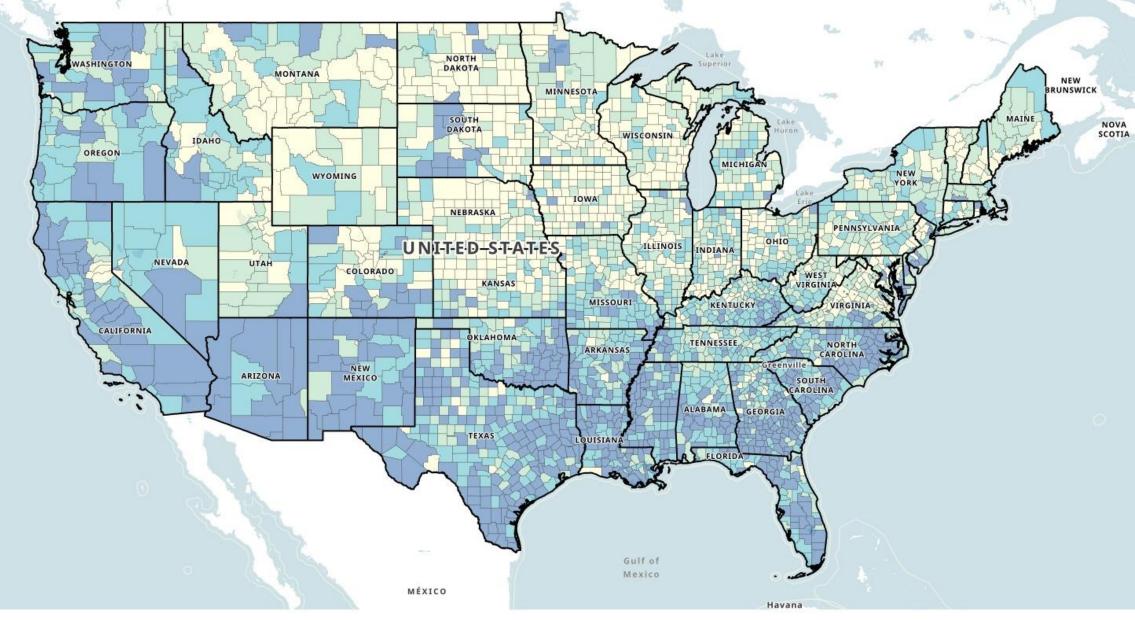
facebook

Email or



"Sheep Springs, NM" 🔬 😱

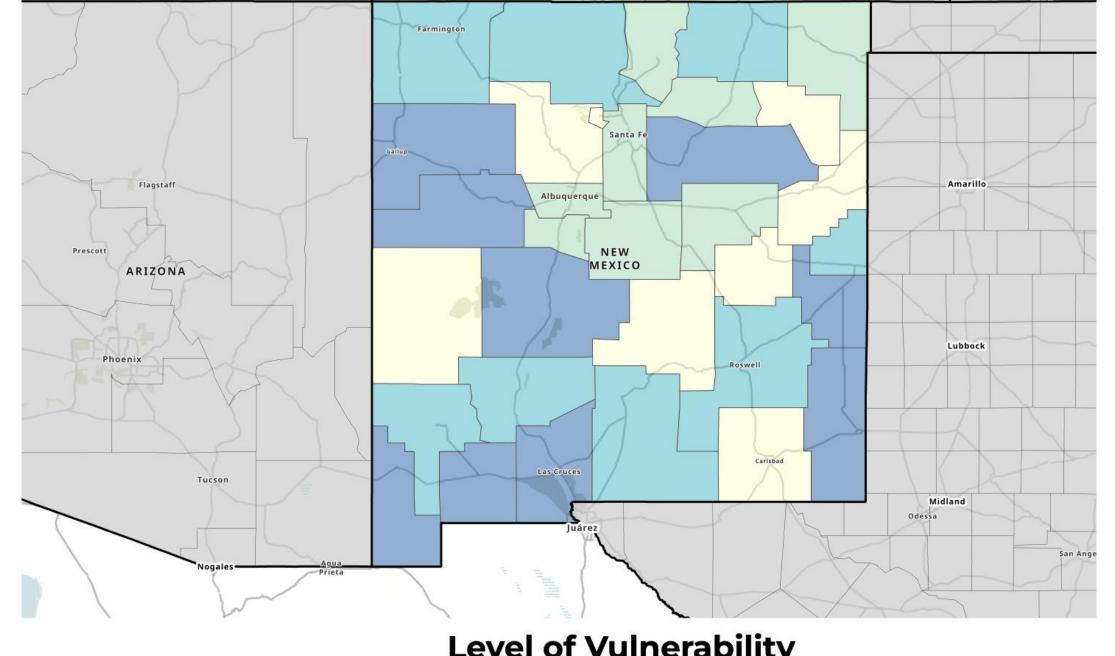
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Level of Vulnerability

https://www.atsdr.cdc.gov/placeandhealth/svi/index.html





	vaniciability	
Low-Medium	Medium-High	High

Low

Census Tract 35031945300, Mckinley County, New Mexico

131

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2020 Statewide Overall SVI Score:

0.9883

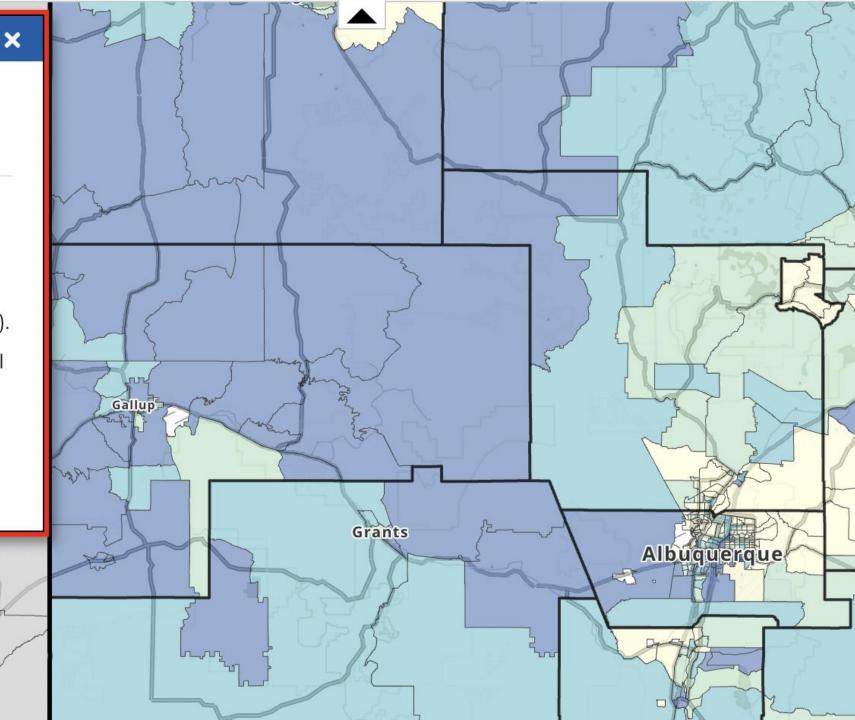
nslow

Possible scores range from 0 (lowest vulnerability) to 1 (highest vulnerability).

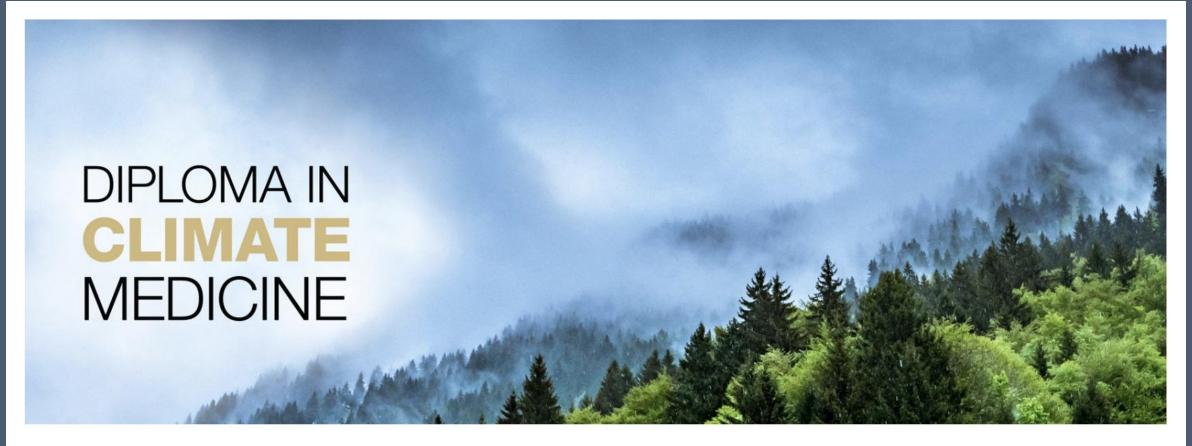
A score of **0.9883** indicates a **high** level of vulnerability.

View Prepared County Map

View in Table



Paul Charlton photo



Introducing the Diploma in Climate Medicine

The University of Colorado School of Medicine is proud to offer a comprehensive professional development program for healthcare providers across all specialties. The Diploma in Climate Medicine trains leaders to advocate for climate-resilient, patient-centered policies that serve diverse communities and systems.

Knowledge Resources

Overview knowledge:

- US 5th National Climate Assessment
- IPCC reports

Medical knowledge:

- NEJM series
- Lancet Countdown series

Clinic adaptation:

- Americares
- Depts of Health/CDC

Every child born today will be affected by climate change. How we respond will determine the world we live in tomorrow and will shape the health of children across the globe, at every stage of their lives.



"Greatest global health threat facing the world in the 21st century"

- Lancet Countdown



April 22, 2024

Physicians Have Role to Play in Addressing Climate Change

By Tochi Iroku-Malize, M.D., M.P.H., M.B.A., FAAFP AAFP Board Chair

https://www.aafp.org/about/policies/all/climate-change-environmental-health.html

AAFP / About Us / Policies / All Policies / Climate Change and Environmental Health (Position Paper)

Climate Change and Environmental Health (Position Paper)

Call to Action

The American Academy of Family Physicians calls for action in the following areas:

Physician Level

- Become informed about the impact of climate change on human health and take
- Address and manage each patient's specific environmental health risks to help th

Practice Level

- Understand the health care sector's environmental footprint and how this contrib
- Understand how climate change will impact the health care sector's ability to pro
- Partner with sustainability experts to set greenhouse gas emissions reduction gc resilient health care.

Community/Leadership Level

- Promote partnerships with private and public community organizations and heal and public health.
- Proactively engage with other health care and social service organizations to link

Educational Level

 Lead change in undergraduate, graduate and continuing medical education to pre occupational impacts related to climate change.

Advocacy Level

• Leverage the voices of family physicians as stewards of public health to advocate determinants affecting communities, patients and health care workers.

Americans trust NASA, family & friends, climate scientists, and their primary care doctors the most as sources of information about global warming

Rank by trust	All Registered Voters	Liberal Democrats	Moderate/Conservative Democrats	Liberal/Moderate Republicans	Conservative Republicans
1	NASA	Climate scientists	Climate scientists	NASA	Family & friends
2	Family & friends	Environmental organizations	EPA	Family & friends	Your primary care doctor
3	Climate scientists	EPA	Environmental organizations	Your primary care doctor	NASA
4	Your primary care doctor	NASA	NASA	Climate scientists	The Fox News Channel
5	EPA	Teachers	Television weather reporters	EPA	Leaders in your religious faith
6	Television weather reporters	President Biden	American Medical Association	Television weather reporters	Television weather reporters
7	Environmental organizations	National Public Radio (NPR)	President Biden	U.S. military leaders	Climate scientists
8	Teachers	Television weather reporters	Your primary care doctor	Teachers	U.S. military leaders
9	American Medical Association	Family & friends	National network news	American Medical Association	American Medical Association
10	Your local newspaper	National network news	National Public Radio (NPR)	Environmental organizations	Teachers
11	National Public Radio (NPR)	American Medical Association	Your local newspaper	Your local newspaper	Oil, gas, and coal companies
12	Local TV news	Your local newspaper	Family & friends	Local TV news	EPA
13	National network news	CNN	Local TV news	National Public Radio (NPR)	Your local newspaper
14	President Biden	Your primary care doctor	Teachers	National network news	Environmental organizations
15	U.S. military leaders	MSNBC	CNN	The Fox News Channel	Your Congressperson
16	CNN	Local TV news	MSNBC	Leaders in your religious faith	Local TV news
17	MSNBC	Your Congressperson	U.S. military leaders	Your Congressperson	National Public Radio (NPR)
18	Your Congressperson	U.S. military leaders	Your Congressperson	CNN	National network news
19	Leaders in your religious faith	Leaders in your religious faith	Leaders in your religious faith	MSNBC	CNN
20	The Fox News Channel	The Fox News Channel	Oil, gas, and coal companies	Oil, gas, and coal companies	MSNBC
21	Oil, gas, and coal companies	Oil, gas, and coal companies	The Fox News Channel	President Biden	President Biden

How much do you trust or distrust the following as a source of information about global warming?

April 2022 Slide: Courtesy Ed Maibach, 2023, used with permission



VALE PROGRAM ON Climate Change Communication



GEORGE MASON UNIVERSITY CENTER for CLIMATE CHANGE COMMUNICATION

Six key facts about global warming in 12 words

IT'S REAL	Global warming is happening.
IT'S US	Human activity is the main cause.
EXPERTS AGREE	More than 97% of the world's climate experts are convinced, based on the data, that human activity is warming the planet.
IT'S BAD	The impacts are serious, and they affect people, especially our children and grandchildren.
OTHERS CARE	You're not alone. Most people are worried about global warming, and they support climate action.
THERE'S HOPE	There are actions we can take that will make a big difference.



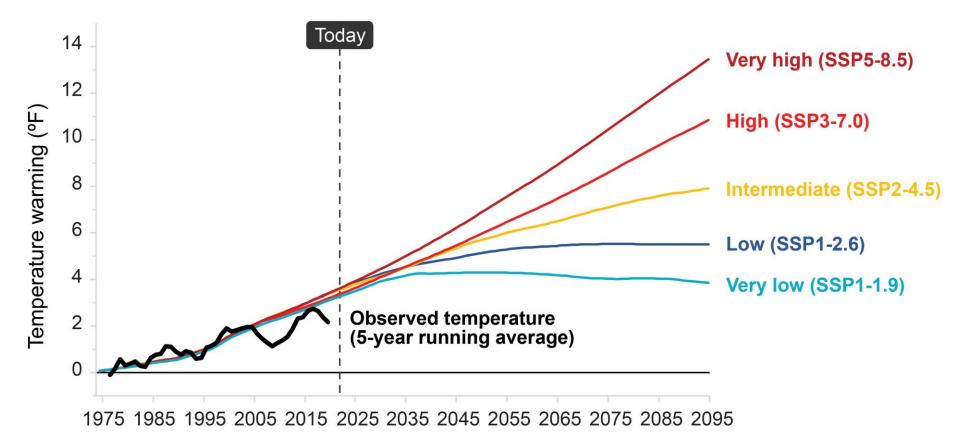


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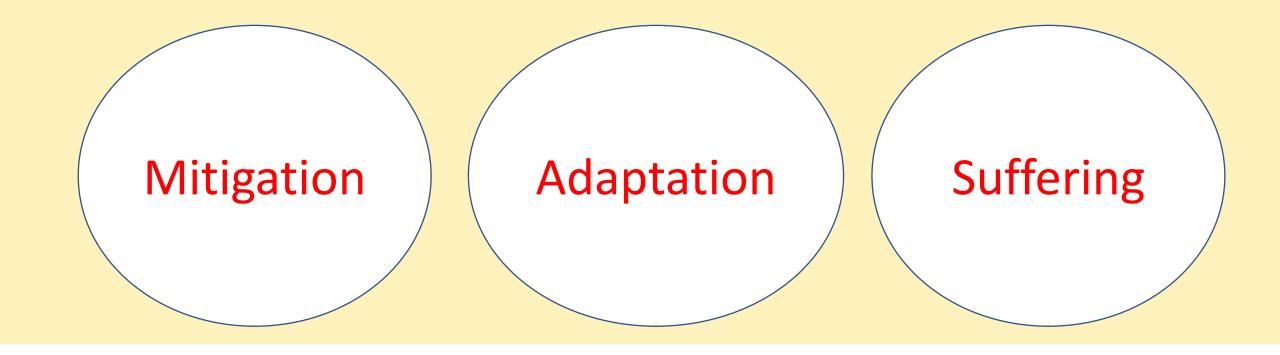
Potential Warming Pathways in the United States

Future Warming

Future warming in the United States will depend on the total amount of global greenhouse gas emissions.



US National Climate Assessment 2023, figure 1.13



"We basically have three choices: mitigation, adaptation and suffering. We're going to do some of each. The question is what the mix is going to be. The more mitigation we do, the less adaptation will be required and the less suffering there will be."

> - John Holdren, energy and climate expert at Harvard Statement at 2007 launch of the fourth IPCC report,

Climate-related impacts on Evacuation, trauma, Infection Malnutrition Conflict and Heat-related Asthma/COPD illness anxiety, PTSD migration Health Health H Risk to the Heat stress Decline in systems health of staff to inpatients indoor air quality Damage to health infrastructure and supply chain disruption Social & structural 2-11determinants of health 10.00.1 Destabilized Suppy chain Housing Threats to Education/ Equity livelihood damage training disruption disruption government **Ecological** determinants of health Extreme weather Soil loss Water shortage **Global temperature** Sea-level rise rise

Howard et al., The Lancet Planetary Health 2023 7e251-e264DOI: (10.1016/S2542-5196(23)00022-0)

Climate change harms health through eight distinct pathways

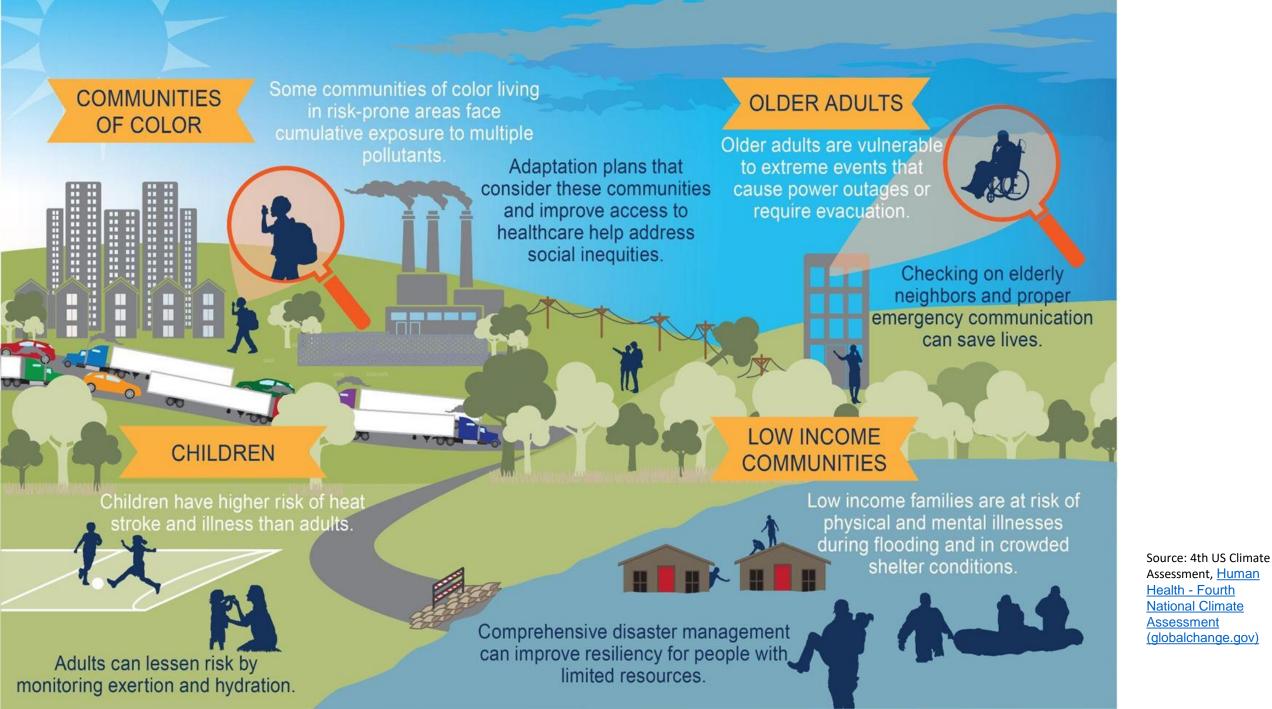
FOSSIL FUELS 8,7 MILLION † globally per year in 2018



Morbidity & Mortality:

- Air pollution
- Extreme heat
- Extreme weather
- Vector-borne illness
- Water-borne illness
- Food-borne illness
- Hunger and malnutrition
- Mental health harms

@ChristineArena



Our families

Diabetes? Heart disease? Kidney disease? Pregnant? Child under 5? Over 65?





New Mexicans are vulnerable

- Elderly 20%¹
- Children 23% (5% under 5yo)²
- People living in poverty 18%⁶
- Disability 18%³
- Migrants 10%⁴
- Outdoor workers 47%⁵
- Homelessness increase 2022-2023 57%⁷
- Substance use mortality high⁸



Large percentage of NM population is

1 – 2023 www.census.gov
2 – 2023 www.census.gov
3 – 2023 www.census.gov
<u>4 – 2023 www.census.gov</u>
5 – US Bureau of Labor statistics - https://www.bls.gov/opub/ted/2017/over-90-percent-of-protective-service-
and-construction-and-extraction-jobs-require-work-outdoors.htm
<u>6 – 2023 www.census.gov</u>
7- https://www.huduser.gov/portal/sites/default/files/pdf/2023-AHAR-Part-1.pdf
8 - https://www.kff.org/statedata/mental-health-and-substance-use-state-fact-sheets/2et/v-mexico/



The NEW ENGLAND JOURNAL of MEDICINE

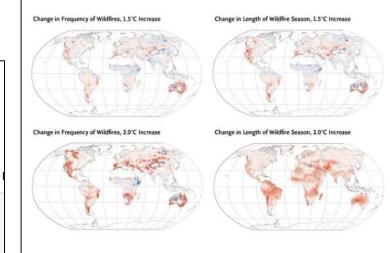
SPECIALTIES V TOPICS V MULTIMEDIA V CURRENT ISSUE V

Climate Change

https://www.nejm.org/browse/specialty/climate-change

Fossil-Fuel Pollution and Climate Change

NEJM Group publications — *NEJM*, *NEJM Evidence*, and *NEJM Catalyst* — present a series on fossil fuel-driven health harms and strategies to reduce risk.



SPECIAL REPORT OCT 09, 2020 FREE

Wildfires, Global Climate Change, and Human Health

R. Xu and Others

Wildfires are increasingly common and projected to worsen with climate change. Health consequences include burns and mental health effects, as well as risks from air pollutants in smoke. Cutting carbon emissions to limit the global temperature increase to 2.0°C or 1.5°C above the preindustrial level would markedly reduce

wildfire risks.

SPECIAL REPORT NOV 20, 2024

Climate Change, Floods, and Human Health

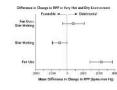


Y. Wu and Others

With climate change, exposure to floods has increased and is linked to adverse health outcomes, such as injuries, diseases, and mental health harms, all of which are greater in vulnerable populations.

CORRESPONDENCE NOV 06, 2024

Strategies to Reduce Cardiac Strain in Extreme Heat



G.K. Chaseling and Others

In this crossover trial in older adults with or without coronary artery disease, cardiac strain was reduced with fan use, skin wetting, or both in hot and humid conditions but worsened with fan use in very hot and dry conditions.



Wildfires

Health System Vulnerability



Patient experiences



WARNING AT ALL LEVELS Temperature change (°F) since 1970

5°

4°

3°

20

0

0°

Based on linear trends of average annual temperature (1970-2022). Source: RCC-ACIS.org; NCEI Climate at a Glance

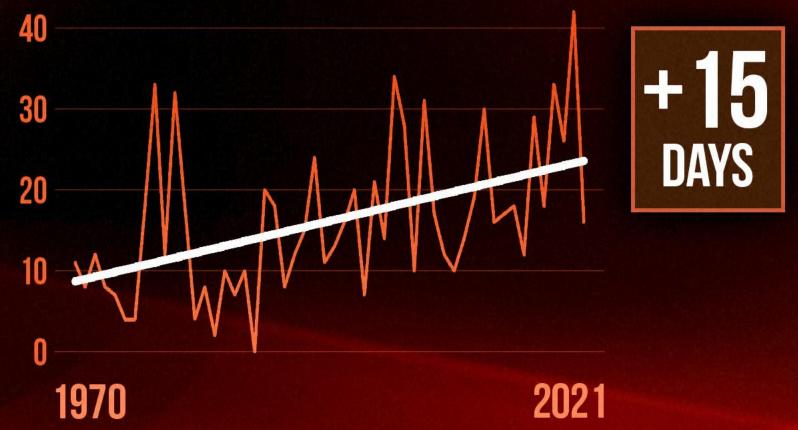
LAS CRUCES

NEW MEXICO

CLIMATE CO CENTRAL

UNITED STATES

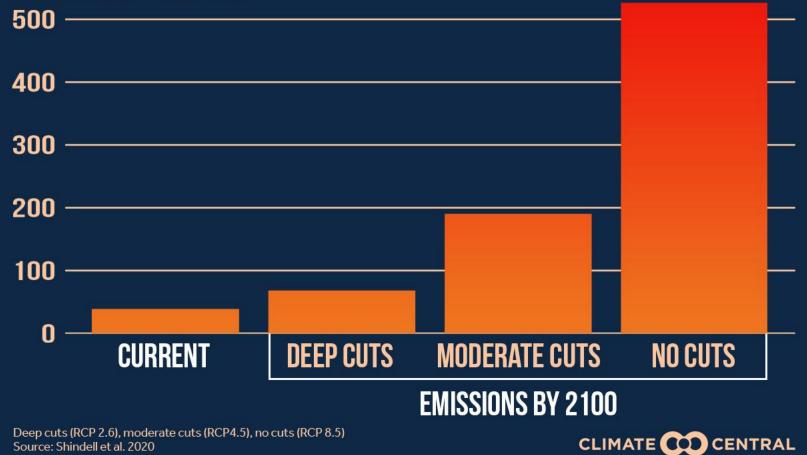
LAS CRUCES DAYS ABOVE 100°



Change in days above 100°F based on rate of change since 1970. Source: RCC-ACIS.org CLIMATE CO CENTRAL

NEW MEXICO YEARLY HEAT-RELATED DEATHS

⁽PER MILLION PEOPLE)



The NEW ENGLAND JOURNAL of MEDICINE

CLINICAL PRACTICE

FOSSIL-FUEL POLLUTION AND CLIMATE CHANGE

Caren G. Solomon, M.D., M.P.H., Editor

Treatment and Prevention of Heat-Related Illness

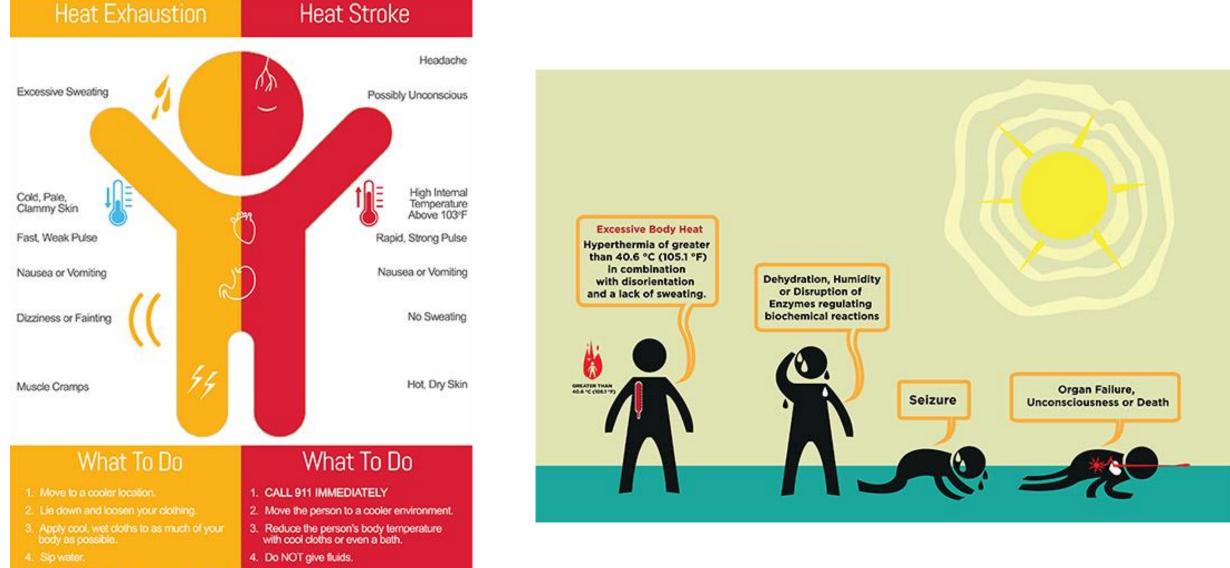
Cecilia Sorensen, M.D., and Jeremy Hess, M.D., M.P.H.

https://www.nejm.org/doi/pdf/10.1056/NEJMcp2210623

Strategy Identify heat-vulnerable patients. Alert patients and caregivers to potential heat risks. Provide counseling regarding signs and symptoms of heat-related illness (e.g., excessive sweat- ing or cessation of sweating, thirst, myalgias, confusion) ^{27,38} Provide counseling regarding how to reduce risks and when to seek medical attention. ³⁹ Provide education regarding medications that may increase heat risk. ²⁷ Provide counseling about ensuring access to cooling when needed, including the appropriate- ness of fans as a cooling strategy ⁴⁰ and access to mechanical air conditioning at home or at a nearby site, where available.
 Alert patients and caregivers to potential heat risks. Provide counseling regarding signs and symptoms of heat-related illness (e.g., excessive sweating or cessation of sweating, thirst, myalgias, confusion)^{27,38} Provide counseling regarding how to reduce risks and when to seek medical attention.³⁹ Provide education regarding medications that may increase heat risk.²⁷ Provide counseling about ensuring access to cooling when needed, including the appropriateness of fans as a cooling strategy⁴⁰ and access to mechanical air conditioning at home or at
 Review emergency plans in the event of a power outage.⁴¹ Engage social work and related services as needed to assist in reducing risks, including arrangement of safety checks. Become familiar with local heat-risk thresholds and monitor risk levels⁴² (in the United States, information can be obtained through a free OSHA application³⁷).
Educate administrators, coaches, stakeholders, athletes, staff, and spectators about the risks and manifestations of heat-related illness. ⁴³ Encourage acclimatization in advance of substantial heat exposure. ¹⁰ Provide counseling regarding when to schedule practices and events and exercise-modification strategies appropriate for the region. ⁴³ Support event organizers in planning and preparedness activities. ⁴³
Identify heat-vulnerable patients who work outdoors. ⁴⁴⁻⁴⁷ Explore potential barriers to reducing heat risk and formulate strategies to address these barri- ers, including drinking water, resting, or removing extra clothing or equipment. ⁴⁵ Discuss whether outreach to the patient's employer about the reduction of heat risks might be beneficial. Inform patients of relevant local worker protections and standards. ⁴⁸

 \star OSHA denotes Occupational Safety and Health Administration.

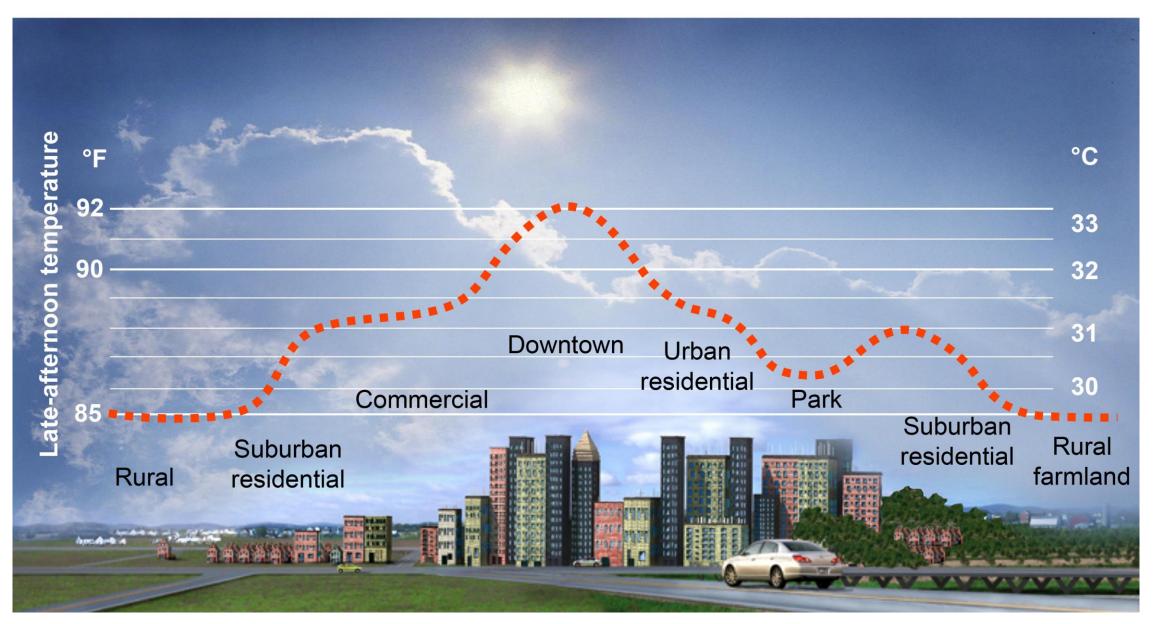
Know The Signs



If you have vomited and it continues, see modical attention immediately.



The Urban Heat Island Effect



US National Climate Assessment 2023, figure 12.5

Lessons from Maricopa County (Phoenix)

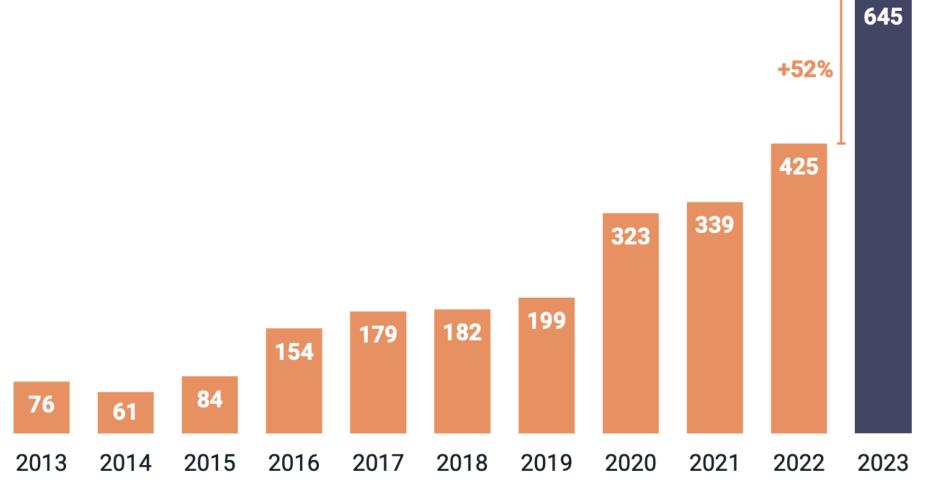
Annual Heat Reports

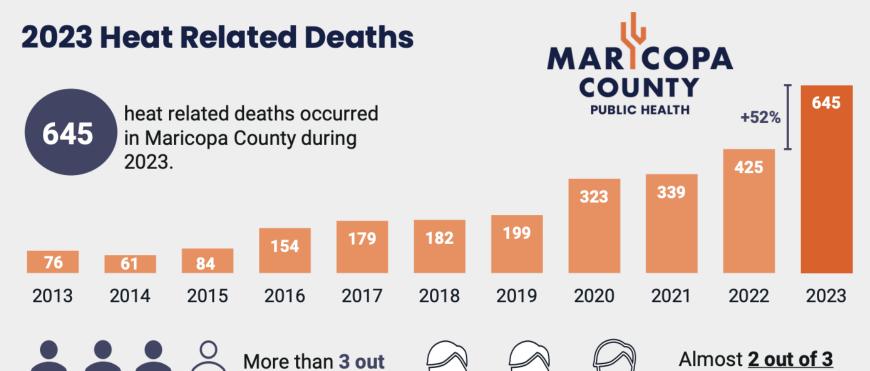
Heat Related Deaths Over Time

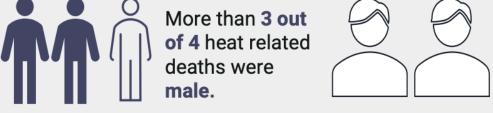
Deaths by Year

Maricopa County identified a total of 645 heat related deaths occurring in 2023.

This represents a 52 percent increase from last year and the most heat related deaths ever recorded.







Almost <u>2 out of 3</u> heat related deaths were <u>age 50 years</u> or older



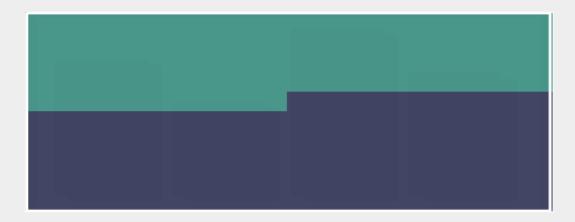
of heat related deaths were among Maricopa County residents **3 out of 4** heat related deaths had an injury location **outside**.



Sixty-five percent of heat related 35% deaths involved substances in 2023.



Forty-five percent of heat related deaths were among people experiencing homelessness.



1 out of 2 heat related deaths had a medical history of **physical/mental health conditions**.



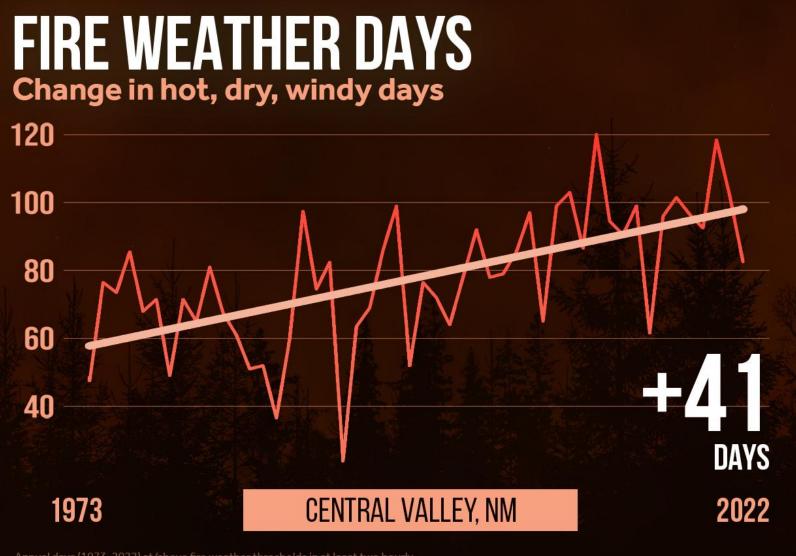


71% of heat related deaths occurred on a day where the Weather Service issued an excessive heat warning

Photo: Jim Weber / Santa Fe New Mexican

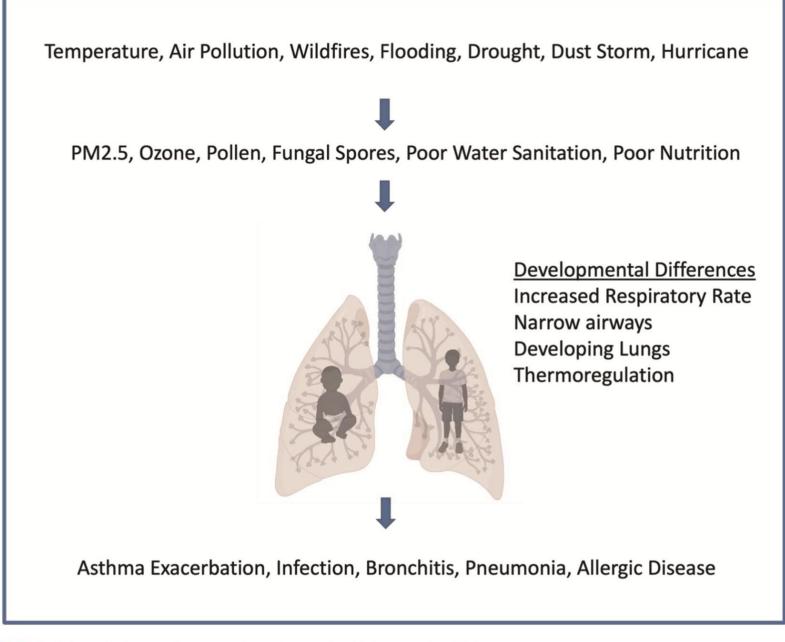


https://www.npr.org/2022/05/0 8/1097455610/new-mexicoresidents-brace-for-extremewildfire-conditions



Annual days (1973-2022) at/above fire weather thresholds in at least two hourly observations per day. (2 stations in climate division) Source: NOAA/NCEI Local Climatological Data (LCD)





Kline O, Prunicki M. Climate change impacts on children's respiratory health. Curr Opin Pediatr. 2023 Jun 1;35(3):350-355.

IGURE 1. Selected climate change and respiratory health impacts in children.

Prebirth impacts

KEY POINTS

- Climate change and air pollution affect children's respiratory health before they are born.
- Climate change-related exposures indirectly affect pediatric lung health by increasing adverse pregnancy outcomes.
- Exposure to elevated temperatures, air pollution, and maternal stress decreases lung function and increases children's wheezing, asthma, atopy, and pulmonary infections.
- Adaptation measures should be implemented to decrease prenatal exposure to climate change and air pollution.

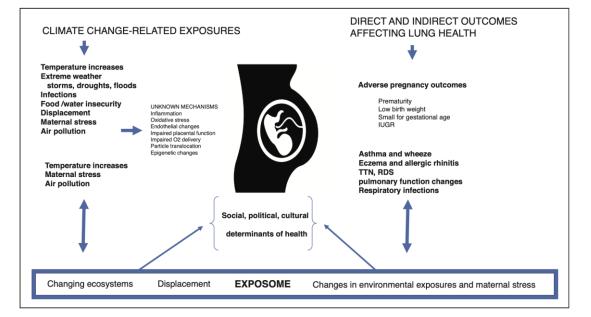


FIGURE 1. Pulmonary outcomes related to prenatal exposures to climate change during pregnancy. Climate change affects pulmonary health via two routes: the environmental changes associated with climate change (e.g. temperature increases, extreme weather, infections, food/water insecurity, population displacement, air pollution, and maternal stress) affect the developing fetus by increasing adverse pregnancy outcomes, which compromises the offspring's pulmonary health. In

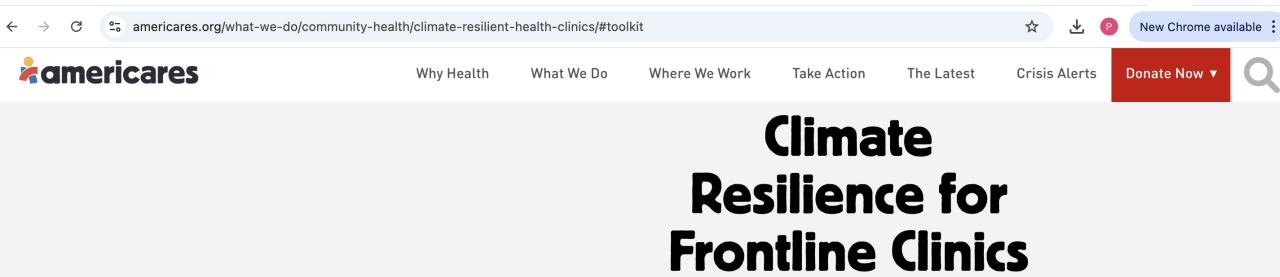
Increased Risk



Condition/Individual with Greater Sensitivity to	Potential Health Effects from Wildfire Smoke
Smoke Exposure	Exposure
Asthma, COPD, and other chronic respiratory diseases	Respiratory symptoms including breathing difficulties (e.g., coughing, wheezing, and chest tightness). Greater medication usage, emergency department visits, and hospital admissions. ⁵⁻⁷
Cardiovascular disease (CVD)	Ischemic events; worsening of heart failure; or arrhythmias. Excess emergency department visits, hospital admissions, and even death from CVD. ^{8,9}
Children	Coughing, wheezing, difficulty breathing, chest tightness, decreased lung function, pneumonia. ¹⁰
Chronic Kidney Disease	Excess same-day mortality for dialysis patients. ¹¹ Decreased renal function and progression to end-stage renal disease. ¹²
Low wealth individuals	Greater smoke exposure as well as lesser access to exposure reducing measures (e.g., air filtration) and healthcare. ¹³
Older adults	Increased vulnerability to smoke effects, and therefore higher rates of healthcare utilization and mortality, due to higher prevalence of chronic medical conditions. ⁵
Outdoor workers	Increased vulnerability to smoke effects due to extended periods of time exposed to high concentrations of wildfire smoke, possibly without adequate protection.
Pregnant women	May increase risk of low birth weight and preterm birth.14,15

Adapted from https://www.epa.gov/wildfire-smoke-course/which-populations-experience-greater-risks-adverse-health-effects-resulting

Images: Midjourney generated images, 2023 [16].



www.americares.org/ climateclinics

It's here! Download the entire toolkit or see below for specific modules. Individual resources can be downloaded for your use by clicking on **General Weather Guidance, Extreme Heat, Wildfire and Smoke, Hurricanes** or **Floods** below and then selecting the individual document or full module that you wish to download.

Toolkit

Download Complete Toolkit

Project Background and Contributors English Spanish

How to Use This Toolkit English Spanish

Where We Work

The Latest

+

General Weather Guidance

Extreme Heat

Wildfire and Smoke

Hurricanes











Wildfire and Smoke

Wildfires have many effects on health, especially for individuals with chronic medical conditions.

The changing climate leads to greater periods of drought and extreme heat which increases the likelihood of wildfires and wildfire smoke. These resources contain critical information you need and actions you and your patients can take to help

FOR PATIENTS

PDF Wildfire Action Plan and Tip Sheet English Spanish Wildfire Smoke Action Plan and Tip Sheet English Spanish All About Air Purifiers English Spanish FOR PROVIDERS Helping Patients Establish a Wildfire/Wildfire Smoke Action Plan English Spanish Wildfires and Health English Spanish FOR ADMINISTRATORS Guidance and Checklist for Facility Repair and Re-Entry After Wildfires English Spanish Wildfires and Planned Power Outages PDF Enalish Spanish



Use this plan and tips to stay safe if wildfire smoke is in the air around you. Share this plan with everyone in your home and with friends and family members. Review this information every year so that everyone is ready to act when there is wildfire smoke.

Wildfire smoke is dangerous to your health

Wildfire smoke increases the risk of lung problems, heart problems, and other health problems. It is particularly dangerous if you have ongoing health issues such as asthma, COPD, or heart or blood vessel disease.

Before wildfire smoke

- Be aware that being outside when there is smoke may pose a health risk.
- Wildfires and wildfire smoke can make the air dangerous to breathe.

To know when the air outside may not be safe to breathe, I will check my local air quality at:

Check for fires and wildfire smoke near you on your phone, computer, or local news or radio station. Most phone weather apps now include information on air quality.

Wildfire Smoke Communications Templates

For Administrators

Effective communication is crucial for health centers and clinics to ensure the safety and well-being of their patients and staff during wildfire smoke. This document provides guidance and sample messages that can be used to disseminate important information and alerts before, during, and after wildfire smoke.

Before wildfire smoke

Recorded phone message or email – preparedness

Wildfires across [impacted region] are creating hazardous and smoky conditions. Smoke from the [impacted region] fires may drift into [your community's name] and rapidly reduce air quality.

If you suffer from asthma, COPD, heart failure, or any other chronic respiratory or heart conditions, plan for how you will protect yourself from harmful wildfire smoke.

Check air quality at [local official site] to know your level of danger and exposure. Ensure you have back up medications safely stored in a possible evacuation bag. Keep up to date on evacuation warnings here: [insert local resource for evacuations]

In the meantime, limit exertion and exercise, especially outdoors. If possible, stay inside in a designated clean room. Information on how to set up your own clean room at home can be found here: <u>How to Set Up</u> <u>Your Own Clean Room at Home</u>

System-level disruption

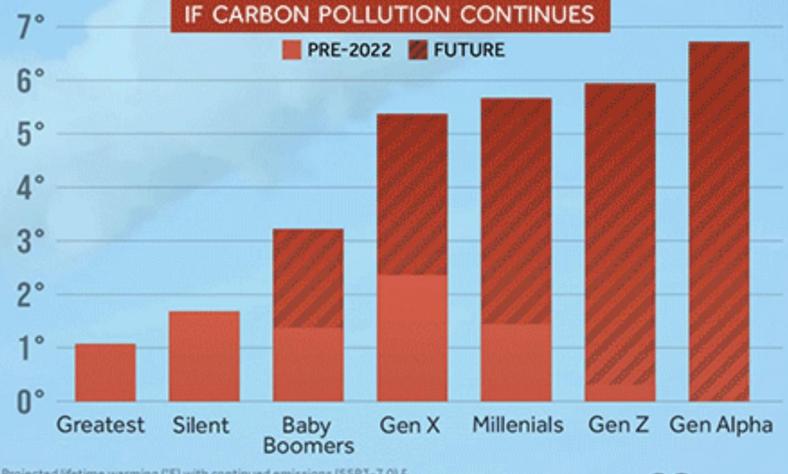






Mental Health

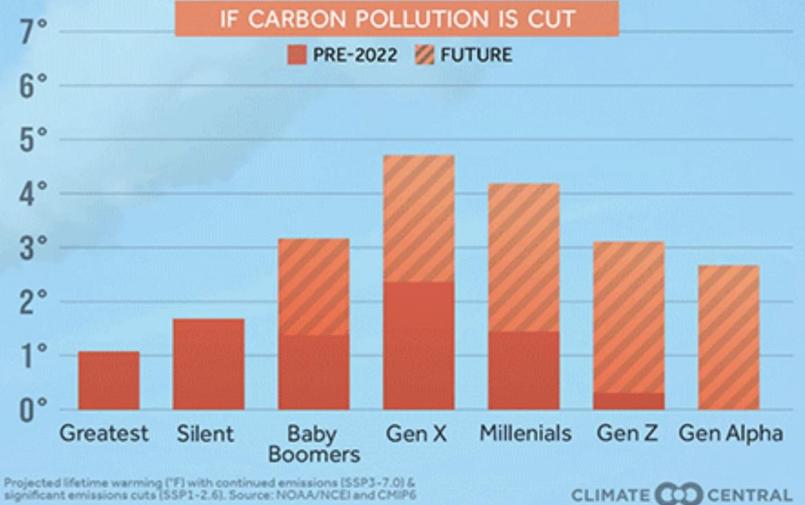
WARMING OVER A LIFETIME



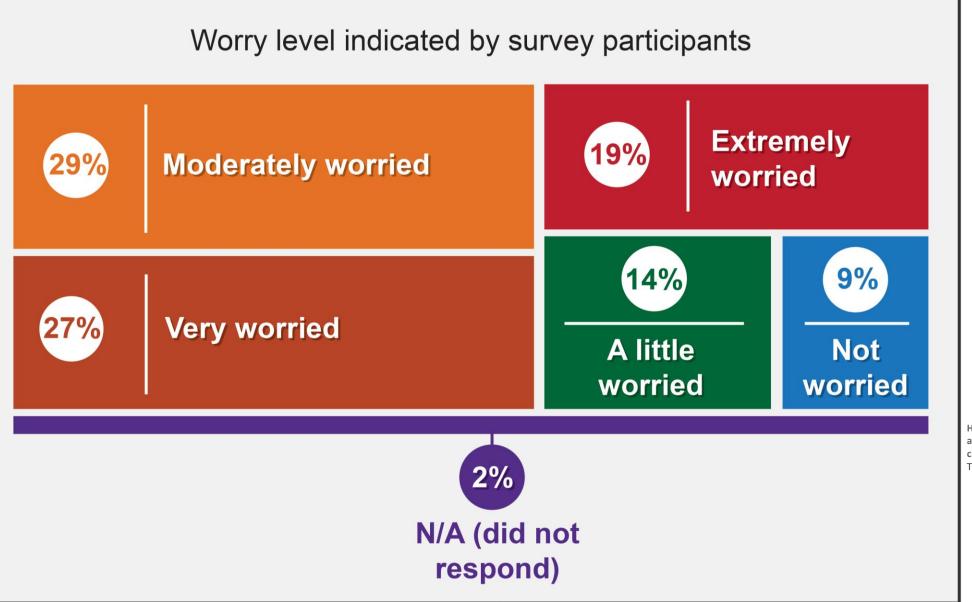
Projected lifetime warming ("F) with continued emissions (SSP3-7.0) & significant emissions cuts (SSP1-2.6). Source: NOAA/NCEI and CMIP6

CLIMATE CO CENTRAL

WARMING OVER A LIFETIME



Children's Mental Health



26% of participants also reported that climate change had a negative effect on their daily life and functioning

Hickman C et al. Climate anxiety in children and young people and their beliefs about government responses to climate change: a global survey The Lancet Planetary Health, 5(12), Dec 2021.

New terms

Ecoanxiety

Ecogrief

Ecoparalysis

Ecoguilt

Solastalgia^{*}

*a form of homesickness one gets when one is still at home, but the environment has been altered and feels unfamiliar How can we reduce the risks that climate change poses to our mental health?

- Support for those at risk
- Support for action to address climate change
- Provider education
- Psychological resilience training
- Youth climate education programs focused on empowerment reframing threat as opportunity for pursuing solutions

https://www.commonwealthfund.org/publications/explainer/2023/mar/how-climate-change-affects-mental-health

Objectives

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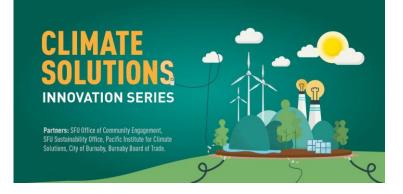
Innovation Framing



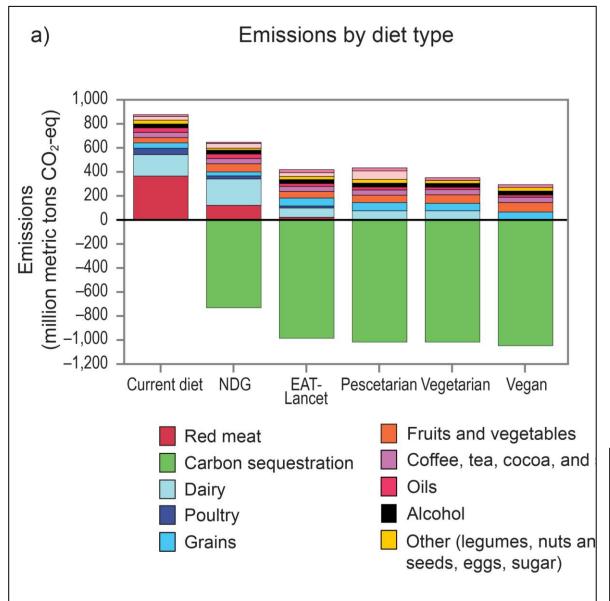
Challenge *and* huge opportunity for innovation

Lessons from modern medicine

Lessons from traditional Indigenous knowledges







Personal levels



ENERGY STAR Most Efficient 2025

The Year's Best of ENERGY STAR for Energy Efficiency and Innovation

WHEN ONLY THE BEST WILL DO.

Looking for the ENERGY STAR label is a simple way to save you money and protect the environment. Now EPA introduces ENERGY STAR Most Efficient 2025, a distinction that recognizes products that deliver cutting edge energy efficiency along with the latest in technological innovation. It is an award that truly represents the best of ENERGY STAR.



Healthcare Decarbonization

- 8.5% of US greenhouse gas emissions¹
- Recruitment tool for staff

Key Actions to Reduce Greenhouse Gas Emissions by U.S. Hospitals and Health Systems



1. Eckelman, M. J., et al. 2020. Health care pollution and public health damage in the United States: An update. Health Affairs 39(12). https://doi.org/10.1377/hlthaff.2020.01247.

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Collective Action

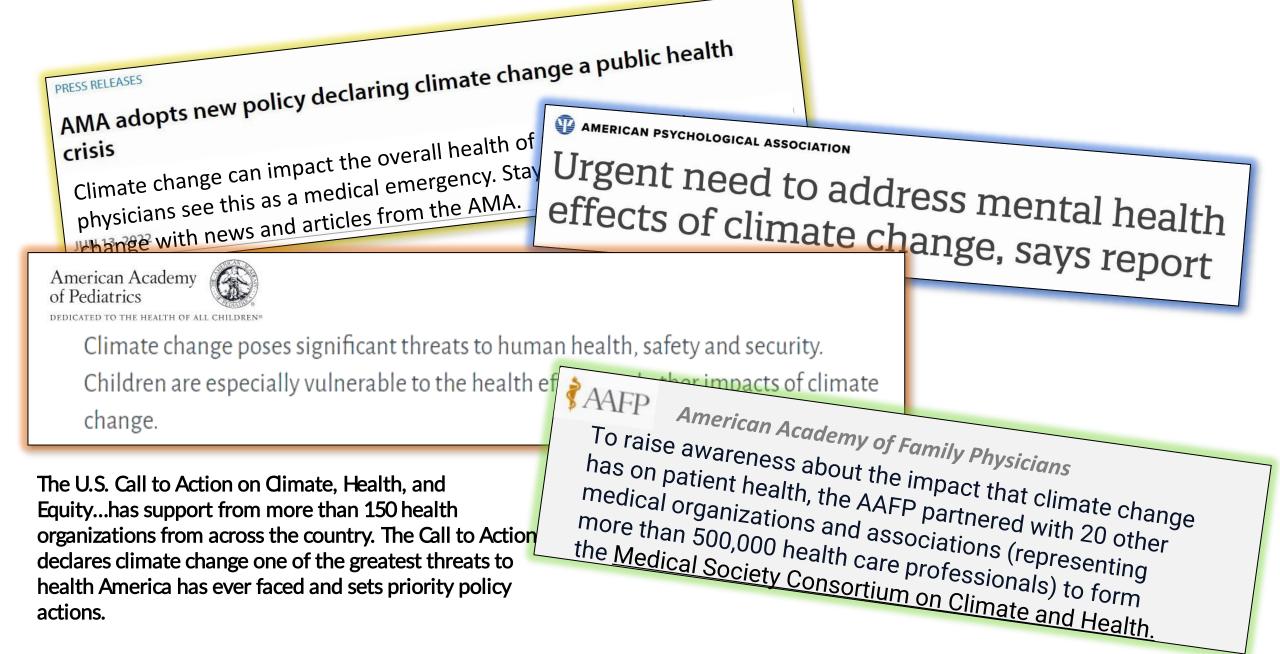
- Local
- State
- National
- Global

What do NM health professionals have to offer?

- 1. We are on the frontlines, and we have stories to tell.
- 2. We are a trusted sources of information for our patients and communities
- 3. Climate impacts on health will continue to involve health professionals
- 4. Leveraging our expertise and experience to ensure that climate policies are meaningful, equitable, and rooted in protecting our communities.



Leading Institutions, Organizations, and Associations are Sounding the Alarm





https://medsocietiesfor climatehealth.org/

Become a Medical Advocate for Climate and Health

We are seeking physicians in every community in America who are willing to become advocates for climate and health in their community by speaking to local policymakers, local press and community groups. Please become an advocate today.

SIGN UP NOW



Home About Advocacy Events Education More



Q Search...

Healthy Climate New Mexico Health Professionals for Climate Action

Healthy Climate NM's vision is a healthy, equitable, sustainable future for all New Mexicans.

Healthy Climate NM's mission is to mobilize New Mexico healthcare and public health professionals to advocate for climate solutions that protect health and promote equity.

About Us

Learn more about Healthy Climate NM and our team. Climate & Health Day at the Roundhouse January 27th

Register to join HCNM members in Sante Fe to Support Climate Legislation

Add your name to a growing list of supporters for the State Climate

Get Involved

Become a member today to stay in the loop on our efforts!

Wildfire Smoke Policy Advisory

Read HCNM's latest policy advisory on

healthyclimatenm.org



healthyclimatenm.org

Policy & Advocacy

Education

Community

Please join! (no dues)



LET YOUR CLIMATE STORY & VOICE BE HEARD!

Join other Health Professionals as we bring our voices on climate change to our legislators.

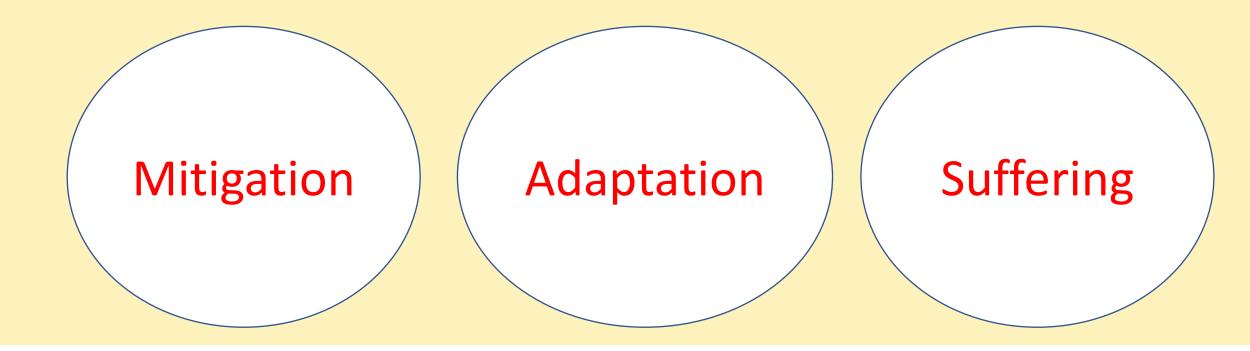
Monday, January 27, 2025 9:00 AM - 3:30 PM

Gain critical knowledge about policies to address climate & health.

Learn about the legislative process.

Meet our legislators.





- 1. We are in this together
- 2. There are solutions
- 3. You, we, these efforts matter









Overview: US 5th NCA; IPCC report

Medical: NEJM series; Lancet Countdown

Clinic adaptation: Americares resources

This is our lane

There are solutions to this situation



Thank You

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