

In Episode 57BU 1 World 2 United States 3 California 4 Colorado 5 New York 6 Ohio 7B Pennsylvania Delaware and New Jersey 8 Utah 9 Wisconsin 10 Canada 11 United Kingdom 12 India 13 Thailand Main Content 1A World Unravelling how meteorological conditions cause changes in atmospheric fine particle concentration PM2.5 **EurekaAlert!** Air pollution is a major global challenge in which PM2.5 is a critical pollutant The variation in PM2.5 concentrations not only affects the quality 1B World Using low cost sensors to assess common air pollution sources across multiple residences Nature PM2.5 and PM10 concentrations in all three houses were greater more variable and significantly different to ambient concentrations recorded 2A United States Have Americans Ever Really Been Healthy? Medical historians say that the phrase Make America Healthy Again MAHA obscures a past during which this countrys people ate smoked and drank things that mostly left them unwell **RAWSEP View** Has America ever really been healthy? MAHA MAGA view versus reality We should not overthink the MAHA phrase which is just a version of the MAGA phrase only meant to influence voters not describe scientific and medical aspirations The phrase Make America Healthy Again has been used by MAGA Republicans led by Robert F Kennedy Junior Kennedy Junior a medically and scientifically unqualified Trump nominee for head of United States Health and Human Services Robert F Kennedy Junior a scion of an illustrious family is not a physician or scientist and Kennedy Junior is known for anti scientific positions on health topics such as being anti vax or vax skeptic or simply a vax cynic in the opinion of New York Time columnist who is also a physician 18000 physicians have also signed a letter objecting to Kennedy Juniors nomination by Trump It is also the editor of **RAWSEPs responsibility to interject** that indoor residential wood burning PM2.5 air pollution emissions from home heating before modern home heating alternatives were available also contributes mightily to the increase in longevity of Americans in the present day compared to the past Strangely the social pressure from modern advertising has made indoor residential wood burning especially in urban areas today a fad a fashion and a folly even in the face of increasing evidence of harm to health of wood burning PM2.5 emissions today **RAWSEP top excerpts from the article below. RAWSEP View of what is better today in terms of health Cancer detection and treatments** there also has been a revolution in cancer treatment Until the 1990s cancer was treated with brute force surgery radiation and chemotherapy Now targeted therapies are turning some cancers once deadly into treatable chronic diseases or even curing them **Vaccines which prevent disease** In the past there were no antibiotics and very few vaccines When the 1918 flu struck the nation no one knew the cause The flu virus had not been discovered and strange folk remedies were rampant About 675000 Americans died from the flu around 1918 In the comparatively recent past many people are nostalgic for the 1950s and 1960s seeing those decades as a time of prosperity when the American pharmaceutical industry pumped out new medical advances antibiotics drugs for high blood pressure and vaccines for tetanus diphtheria measles and polio **New medications and New surgeries** Heart disease was rampant in 1950s with 322 deaths per 100000 Americans annually from cardiovascular disease double the rate today and treatment for heart disease is much more effective today Cholesterol lowering statins introduced in 1987 reduced the risk of heart disease Other new medications as well as bypass surgery and stents also saved lives **RAWSEP View of list of disease outcomes which were worse in the past** In 1850 males at age 20 could expect to live to around 61 years Today it is 74 years **The Civil War Era** the health of Americans Union Army soldiers living in the North in the Civil War era was examined by viewing the medical records of Union Army soldiers Common conditions like hernias were untreatable Poor nutrition led to poor health People were thin



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HIGH FIRE DANGER GUSTY WINDS & LOW HUMIDITY LOS ANGELES & VENTURA COUNTIES THROUGH WED	HIGH FIRE DANGER GUSTY WINDS & LOW HUMIDITY ORANGE & SAN BERNARDINO COUNTIES THROUGH 6 PM WED	HIGH FIRE DANGER GUSTY WINDS & LOW HUMIDITY RIVERSIDE & SAN DIEGO COUNTIES 4 PM MON - 4 PM WED	HIGH FIRE DANGER GUSTY WINDS & LOW HUMIDITY SANTA BARBARA & SAN LUIS OBISPO COUNTIES 10 PM MON - 10 PM WED
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CAL FIRE Fire - 24

Critical Fire Weather Alert @ Southern California is facing critical fire weather through Wednesday. Much of Southern California — from San Luis Obispo to San Diego — is at significant risk of rapid fire spread due to fire-threatening winds and dangerously low humidity. One less spark equals one less wildfire.

It's also extremely important to report suspicious activity to help prevent arson. If you see something, say something!

State, local, federal, and tribal resources — including assistance from out-of-state and international partners — stand ready to respond. Activate the "Red Flag" layer of the CAL FIRE incident page at www.fire.ca.gov for the most up-to-date warning areas. Stay prepared. Stay safe. For fire prevention tips and emergency planning, visit ReadyForWildfire.org.

#CriticalFireWeather #WildfirePrevention #ReadyForWildfire #RedFlagWarning

Often too thin In 1900 61 percent of Union Army veterans were underweight a risk factor for various illnesses and often a marker of ill health compared with 16 percent of US adults today who are underweight **Surgery in the 1890s** One ray of sunshine was the statistic that only nineteen percent of Union Civil war veteran soldiers in the research report above had heart valve problems by the time they were 60 compared with about 85 percent today At an operating theater preparing a patient for surgery in the 1890s no one wears a face covering or gloves **The 1918 Flu Epidemic** Rows of white tents in a field with show nurses tending to patients on cots outside the line of tents in an influenza Camp in Maine in 1918 **The 1950s and 1960s** Health improved in the second 1950s and 1960s but was poor compared with health today There a tremendous amount of heart attacks and strokes Cancer was the second leading killer in the 1950s as it is today But in 1950 there were 194 cancer deaths per 100000 people Now there are 142 cancer deaths per 100000 people **RAWSEP list of healthy living conditions which were worse in the past** **Clean Water** Around 1900 there were public health improvements Cleaner water for example and posters advising parents not to give their babies beer but disease was rampant **Diet** American diets for most of the 1800s were monotonous It is true that agriculture at the time was organic food was locally produced and there were no ultraprocessed foods **Vegetables** But fresh fruits and vegetables were in short supply because they were difficult to ship and because growing seasons were so short Until the 1930s Americans were living off of dried fruits and vegetables In many factories of mostly women prepared vegetables such as tomatoes for canning in the 1930s **Meat** As for protein Americans were relying on salted pork because meat was difficult to preserve Only after the Civil War did meatpackers in Chicago begin to process meat and ship fresh beef across the country Then beef became a large part of the American diet Even though the availability of beef helped diversify diets people did not become healthier **Smoking** Which particular era does RFK want to take us back to? Probably not the 19th and early 20th century Rich men smoked cigarettes and cigars and the poor chewed tobacco By 1960 a doctor said heart disease was responsible for one third of all deaths in America In part that was because nearly everyone smoked We were among the heaviest smoking countries A doctor and medical historian at Yale who died in 2010 once said in an interview that although he never enjoyed smoking the social pressure to smoke when he was in college in the 1950s was so great that I felt it was my duty to find my brand Smoking greatly increases the risk for heart disease the leading killer in the 1950s and 1960s Heart disease death rates plummeted in recent decades because smoking is much less common now **Alcohol Consumption** A male historian said Heavy Drinking was the norm Drinking was a huge problem Saloons were a huge concern Men were Drinking away their paychecks That is the reason we had Prohibition **From the article headline** A vintage photograph of a doctor in white scrubs holding a telephone to his ear while he smokes a cigarette The word again in the phrase of Make America Healthy Again presumes a time in the countrys past when Americans were in better health Historians ask Which particular era does RFK Junior want to take us back to? **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates, a 501c3 nonprofit organization.** The New York Times January 13 2025 We will make Americans healthy again Robert F Kennedy Jr has declared But the word again presumes a time in the countrys past when Americans were in better health Was there ever really a time when America was healthier? For historians of medicine the short answer is no In 1929 the Great Depression began and its economic toll for the next 10 years led to severe nutritional and health problems A doctor said he was not surprised by the idea of a happy sunny past when people were healthier There is a long history in America of nostalgia for a past that was better than the present History



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"But how will we pay for it?"
"You already are."



STOP THE GSNR WOOD PELLET SCHEME.

Gary Graham Hughes
January 7 at 9:23 PM '25

After devastating communities in the Southeastern United States and targeting old growth forests in British Columbia, the dirty wood pellet biomass industry is now trying to make its way into California.

Recently @cristoforhughes was a guest on the @blmradio environment show hosted by the Institute for Sustainable Forestry. For background on the GSNR wood pellet export scheme listen to the "Drax the Deforester" episode here: <https://www.instituteforsustainableforestry.com/.../drax>.

The wood pellet industry has a proven track record of exacerbating climate change, harming rural communities, and devastating forest ecosystems throughout North America—undermining GSNR's claims of protecting and enhancing the environment and quality of life in California's rural communities.

The public comment period on the Draft Environmental Impact Report for the Golden State Natural Resources wood pellet export scheme closes on Jan 20 - now is the time to get in your comments!

Make your voice heard to stop this dangerous wood pellet biomass project and defend our health and environment.

Take an easy and fast action online: <https://action.ndc.org/letter/3649-biomass-act-120324>

#ActOnDrax
#StopBiomass
#OurForestsAreNotFuel
#StopBurningTreesForElectricity
#StopGSNRBiomassIsDoomedtoFail



is all about erasure of the things we do not choose to remember The US spends more on medical care than other countries an average of \$12555 per capita which is about twice what other wealthy countries spend Historians say the past was actually much worse And so they say the phrase Make America Healthy Again makes no sense As a historian of health I don't know what again Kennedy is imagining The idea that once upon a time all Americans were healthy is a fantasy 2B United States the Cool Down United States HVAC specialist reveals crucial tip to help homeowners access \$2000 for a system upgrade The Cool Down Just because you put a heat pump in does not mean that you are automatically going to get up to a \$2000 tax credit by Jenna Reilly January 12 United States You can collect thousands in government incentives for a high tech water heater The Cool Down Get thousands of dollars from the government for switching to a heat pump water heater with clever brands like Cala Systems United States Your outdated HVAC could be costing you \$1500 every year upgrade before major tax The Cool Down heating by installing the right heat pump rebate for installing a modern dual use heat pump for space heating and cooling which may not be United States The government wants to give you \$1600 to upgrade your homes aging ventilation The Cool Down An aging homes ventilation system could be adding dollars to your energy bills — but the government is offering a rebate to upgrade The heat pump United States Heat pump users share honest reviews after homeowner considers upgrading The Cool Down Included in the IRA are a ton of tax credits and rebates for homeowners to go green and save some cash on their energy bills at the same time which United States New \$450 million grant helps communities across multiple states lower their energy bills The Cool Down A heat pump can save you thousands of dollars in heating and cooling rebate for installing a modern dual use heat pump for space heating 2C United States CNET United States Weekly update - January 14 2025 NEWS You'll Soon Be Able to Put This Window Heat Pump in Your Own Home CNET The Gradient All Weather 120V Window Heat Pump I saw at CES 2025 was blowing crisp cool air onto the floor of the Las Vegas Convention Center United States This Air to Water Heat Pump Can Pull Double Duty to Warm Your House and Your Water CNET Samsung is preparing to bring an air to water heat pump to the faucets and radiators of North America this year California Los Angeles We Asked the Experts How to Protect Yourself From Smoke During California Fires CNET Wood smoke exposure from trees or homes burning is particularly associated with inducing asthma attacks and aggravating heart disease That makes 2D United States WEB Octopus Energy X The heat pump is set and forget it nothing to worry or think about People are upgrading their home heating to one thats green efficient 2E United States Nature PM2.5 Weekly update - January 14 2025 NEWS Regional specific trends of PM2.5 and O3 temperature sensitivity in the United States Nature Here we examined the sensitivity of surface level fine particulate matter PM2.5 and ozone O3 to summer temperature anomalies in the contiguous US Assessment of health hazardous particulate matter PM2.5 from artificial neural network springercom Full Coverage 2F United States Why Is the Industry so Pumped About Heat Pumps? 3BL Media Instead of creating heat heat pumps extract heat energy from where it is not needed and move it to where it is needed When a heat pump is in heating 2G United States Midea Launches Energy Efficient Heat Pump Water Heater Fox 59 As a global leader in heat pump innovation and one of the worlds largest producer of major appliances Midea is proud to announce the launch of its United States Midea Launches Energy Efficient Heat Pump Water Heater PRNewswire In recent years heat pump technology has emerged as a leading solution in the shift toward energy efficient and sustainable 2H United States The Untapped Heat Pump Market Part 1 ACHR News Air Conditioning Heating & Refrigeration News BIG SHARE OF THE INSTALLS Heat pumps are around 33% of total HVAC



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A giant fallen in the Valley of Giants aftermath. Picture Uralla Luscombe-Pedro

'Thousand-year-old' trees lost in burn

THE Cook government directed the Department of Biodiversity, Conservation and Attractions to set alight the Valley of the Giants on December 18 to prescribe burn 206ha of pristine tingle and karri forest.

Many of the giant tingles, some over 1000 years old, were brought to ground. They catch fire at their base, leading to collapse. A few days before setting the Valley of Giants ablaze, in a time of high fire danger rating, our government directed DBCA to fire bomb the Ordinance forest in the Mt Frankland National Park, prescription burning 14,000ha, again turning healthy forest with its millions of plants and animals into a burnt-out ruin. Many of us believe our government lighting bushfires at this time of year is extremely foolish. Surely DBCA, the State's most well-equipped bushfire fighting body, along with DFES, should focus on rapid suppression, getting to fires while small to avoid wildfires developing in this doing



This #CleanAirNight, learn the uncomfortable truth about wood burning

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22 January 2025

installs and account for 55% of heating system installs 3A California Fresno Air quality concerns amid Southern California wildfires ABC30 Fresno The Valley Air District says they're not seeing any wildfire smoke in Central California skies but it is concerned with pollution from wood burning wood burning especially during these colder temperatures During the If you are burning when you aren't supposed to you could be cited 3B California Inland Empire Wood Burning Ban in Effect Through at Least Monday for Much of Inland Empire MyNewsLacom A ban on indoor and outdoor wood burning was being extended Sunday in much of the Inland Empire due to a forecast of high air pollution in the California Inland Empire Wood Burning Ban in Effect Through Saturday for Much of Inland Empire MyNewsLacom A ban on indoor and outdoor wood burning has been extended through Saturday in much of the Inland Empire due to a forecast of high air pollution 3C California Los Angeles Air quality during fires Los Angeles LAist Avoid using indoor or outdoor wood burning appliances including fireplaces Avoid vigorous physical activity Keep windows and doors closed 3D California Los Angeles and Surrounding Counties Under Air Quality Alert Hoodline The South Coast AQMD issued an air quality alert for Los Angeles enacting a mandatory wood burning ban due to particle pollution 3E California Los Angeles Boyle Heights Q&A Boyle Heights is already a toxic hotspot for air pollution How wildfires are making it worse? Boyle Heights Beat Diesel emissions and fine particulate inhalable matter PM2.5 are 8 particulate matter Compared to more affluent neighborhoods areas 3F California Los Angeles Eaton Palisades fires continue burning as new threat to Los Angeles area homes emerges ABC11 Her kids sifted through debris on the sidewalk finding a clay pot and a few keepsakes as they searched for Japanese wood prints they hoped to recover 3G California Los Angeles Inhaling Wildfire Smoke Can Cause Long Term Health Risks How To Limit Your Exposure Verywell Health He said wildfire smoke inhalation over time is similar to smoking cigarettes in volume Are Wood Burning Stoves Safe for Your Health? 3H California Los Angeles The list of wildfire smokes long term health risks continues to grow National Observer smoke is compound unburnt wood toxic and acidic notice the government universities and media don't identify any other particulate like road 3i California Los Angeles What are the risks of wildfire smoke inhalation? NewsNation The short term risks include lung injury particularly for high risk groups This is not just wood smoke that is burning There are dangerous 3j California Los Angeles wood smoke Weekly update - January 14 2025 NEWS Where there is fire there is smoke Los Angeles blazes raise fears of super toxic lung damage The Guardian A significant portion of these deaths come from inhaling smoke from the burning of fossil fuels wood and other materials including from wildfires 3K California Riverside County Breaking Ridge Canyon Drive Wood Fire reported in Riverside County on January 10 Sacramento Bee Ridge Canyon Drive Wood Fire has been burning on private land Currently there is no data on the containment status of the fire and the cause has 3L California Sacramento Air quality alert issued by the NWS for Southern California Tuesday Sacramento Bee The No Burn rule bans burning wood pellets and manufactured fire logs in any indoor or outdoor wood burning device for Wildfire smoke in South Coast California Sacramento National Weather Service NWS issues air quality alert affecting Southern California Friday Sacramento Bee The No Burn rule bans burning wood pellets and manufactured fire logs in any indoor or outdoor wood burning device for Wildfire smoke in the Los 3M California Southern As wildfires foul Southern California air here is how to keep smoke from out of your home The Desert Sun Avoid burning wood in your fireplace or firepit and minimize sources of indoor air pollution California Southland Wood Burning Ban in Effect Sunday in Much of the Southland MyNewsLacom A ban on indoor and outdoor wood burning was being extended Sunday in much of the Southland due to a forecast of high air pollution in the area 3N California Wildfire Smoke



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92%
of people burning wood indoors have another way to heat their home

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Communities Against Woodsmoke
January 11 at 6:48 PM
#CleanAirNight #StopBurningStuff

CleanAirNight
22 January 2025

The Impact on Your Brain and Body Psychology Today PM poses the largest risk for health at sizes of 2.5 microns or smaller PM2.5 Extremely fine particles less than 2.5 micrometers in diameter These 4 Colorado Littleton indefinitely postpones ordinance for multi unit homes after packed meeting KDVR fire wood for sale is parked on the side of the road in - More Stories FOX31 Denver Video Denvers business community is rooting for the home

5 New York Heat Pump Clothes Dryer Buyers Guide nyserda New York State Government Heat pump Dryers offer a cleaner more efficient way to do laundry Here is what to know about the energy saving equipment including available 6 Ohio Ellsworth wood burning Weekly update - January 14 2025 NEWS Wood burner causes early morning fire in Ellsworth Ohio Ellsworth Yahoo Wood burner causes early morning fire in Ellsworth Township Ohio on Gault Road wood burner is to blame for a fire in Ellsworth Township It started just before 130 am Monday on the 4000 of Gault Road Ellsworth Fire Chief 7 A Pennsylvania New federal clean energy rebates are in limbo for residents of Pa The Allegheny Front Federal funding is still pending as Bidens term nears its end The rebates can cover heat pumps electric stoves and insulation rebates for home upgrades like electric heat pumps and insulation funded through President Joe Bidens signature climate law But some worry the 7B Pennsylvania Delawre and New Jersey New federal clean energy rebates are in limbo for residents of Pa Del and NJ WHY Federal funding is still pending for 21 states as Bidens term nears its end The rebates can cover heat pumps electric stoves and insulation 8 Utah Here is How Wildfire Smoke Can Impact Your Health University of Utah Health Wildfire smoke can lead to dangerously high pollution levels far exceeding those seen in typical US urban settings PM2.5 Particulate matter from 9 Wisconsin Milwaukee How to stop wildfire smoke from getting into your home and car FOX6 News Milwaukee How to clean the air inside your home Smoking cigarettes and cigars Using gas propane or wood burning furnaces 10 Canada British Columbia Homeowner warns of CleanBC rebate caveat CBCca CBC rebate program aimed at electrifying heating systems in homes To Yukon announces new funding for heat pumps December 19 2024 11 United Kingdom heat pumps United Kingdom How to make the heat pump transition take off Green economy The Guardian Our heat pump has broken down on several occasions and no local plumber can deal with it as they don't know how so we have to wait for United Kingdom Why Is the Industry so Pumped About Heat Pumps? CSRwire Heat pumps support the megatrend toward decarbonization They replace fossil fuel heating with high efficiency technology Air to air heat pumps are cost effective for homes says report Elemental London heat pumps and the role they could play in decarbonising heating What are the main barriers to air to air heat pump uptake in UK homes eg 12 India Delhi clocked three year PM2.5 level high in 2024 reveals study Hindustan Times Delhi in 2024 recorded a three year high in terms of annual PM2.5 particulate matter having a diameter of 2.5 CSE said the annual average PM2.5 India Kolkata PM2.5 levels Kolkata achieves 215 per cent reduction since 2019 Millennium Post Kolkata Kolkata has achieved a 215 per cent reduction in PM2.5 levels since 2019 with the citys PM2.5 levels dropping from 571 micrograms per cubic meter in 2019 13 Thailand Bangkok The Minister of Public Health warns that PM2.5 dust will remain above standard until moneyandbankingcoth The Minister of Public Health warns that PM2.5 dust will still exceed the standard until January 15 in Bangkok its vicinity the central Thailand Bangkok PM Orders Urgent Action on PM2.5 Pollution NBT CONNEXT BANGKOK NBT WORLD Prime Minister Paetongtarn Shinawatra has directed her Cabinet to intensify efforts to tackle rising levels of PM2.5 dust



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Air pollution and breast cancer risk: a Mendelian randomization study
Previous research yields inconsistent findings on the association between air pollution and bre...

Reminder: There are no safe levels of air pollution.