

**From:** Anne Van Doren [REDACTED]  
**Sent:** Wednesday, February 12, 2020 6:29 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Bullock

Hard to take you seriously when you don't care enough about Montana to run for the U.S. Senate where you could help everyone and then maybe run for President.

**From:** Bob Balhiser [REDACTED]  
**Sent:** Wednesday, February 12, 2020 1:12 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Climate Change solution

THIS IS A RE-SEND, THE FIRST TRY FAILED.....

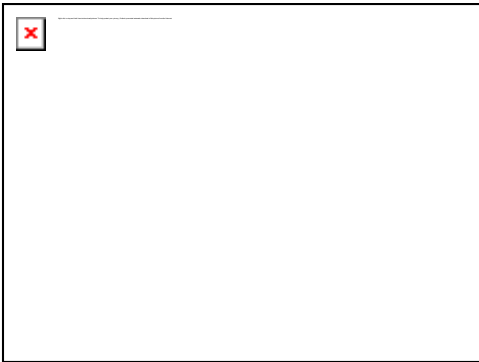
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**From:** Bob Balhiser [REDACTED]  
**Sent:** Wednesday, February 12, 2020 10:29 AM  
**To:** ClimateCouncil@mt.gov <ClimateCouncil@mt.gov>  
**Subject:** Fw: Climate Change solution

To the Climate Council:

Check out this link: [https://apple.news/A0pvK2GqYShC0\\_c\\_19dOUJg](https://apple.news/A0pvK2GqYShC0_c_19dOUJg) [apple.news] to see what Wyoming is considering to convert it's coal-fired plants into clean energy production facilities. The most relevant part of the article as it relates to Montana is this paragraph toward the end of the article:

*"A Wyoming State House bill sponsored by State Rep. David Miller would allow coal and natural gas-fired power plants in the state [to be refitted with small nuclear reactors \[k2radio.com\]](#) that have an equivalent power output. Since the infrastructure is already in place, Miller says, making the switch makes more sense than shutting the power plants down and replacing them with something completely different."*



[Washington State Intends To Be The Clean Energy State And Nuclear Is Key — Forbes](#) [apple.news]

A new study of energy needs in the Pacific Northwest concluded that more diverse, low-carbon electricity sources are needed to maintain energy reliability and achieve a carbon-free system by 2045. And some of that has to be nuclear.

[apple.news](#)

Also, FYI here is a link to the legislative study proposal for Colstrip that Senator Terry Gauthier and I collaborated on: "<https://leg.mt.gov/bills/2019/billpdf/SJ0033.pdf>

66th Legislature SJ0033.01 1 SENATE JOINT RESOLUTION NO. 33 6 REACTORS  
AS A REPLACEMENT FOR COAL-FIRED BOILERS. 7

66th Legislature SJ0033.01 1 NOW, THEREFORE, BE IT RESOLVED BY THE SENATE AND THE HOUSE OF REPRESENTATIVES OF THE 2 STATE OF MONTANA: 3 That the Legislative Council be requested to designate an appropriate interim committee, pursuant to

<http://leg.mt.gov>

In 2016, I had a GE-Hitachi Vice President lined up to come talk with Governor Bullock, the legislature and Colstrip residents, but despite my repeated efforts the Governor refused to see me to discuss the possibility.

**It is still not too late to consider something like this for Units 1 or 2, or later for Units 3 and/or 4.**

Bob Balhiser

[REDACTED]  
Helena, MT 59602  
[REDACTED]

**From:** Melvina Sarver [REDACTED]  
**Sent:** Wednesday, February 12, 2020 11:24 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Climate Change

Sirs:

It does seem like the climate has changed from what it was when I was a kid. We had a lot of 40 below 0 temperatures and 4' of snow on the ground all winter. However, I don't think there is anything we as humans can change the temperature and weather by not using fossil fuel. It has never been proven that withholding fossil fuel use has changed the weather in any way. I agree with President Trump on withdrawing from the agreement on fossil fuels policy.

Sincerely,  
Melvina Sarver  
[REDACTED]

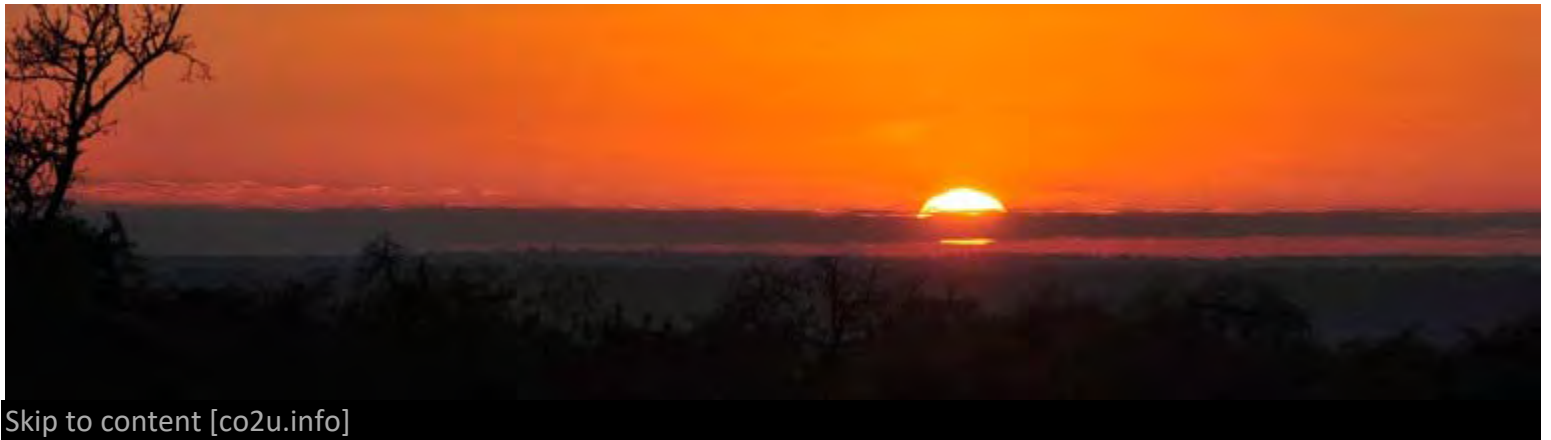
**From:** Paul S. Kent [REDACTED]  
**Sent:** Wednesday, February 12, 2020 8:03 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Deforestation

Please try to change the cutting methods in use and leave more trees. Currently, every tree that is taken is the best in the forest and the ones that are left are the inferior ones with weak genetic strength.

**From:** [REDACTED]  
**Sent:** Wednesday, February 12, 2020 6:08 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Emailing: U.S. Sen. Jon Tester MT. ~ The Cancer is not the Cure CO2 = You and Me ~ by Bruce Kershaw

# CO2 = You and Me ~ by Bruce Kershaw [co2u.info]

*Carbon Based Oxygen (CO2) || Global Warming || Climate Change : The Science and the Reality – Copyright 2007-2020 all rights reserved*



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## U.S. Sen. Jon Tester MT. ~ The Cancer is not the Cure

Posted on [February 10, 2020 \[co2u.info\]](#) by [Bruce A. Kershaw \[co2u.info\]](#)

~\*~

...as the test proven Lies are just Believed

while the Truth is Educated by Question Test Debate

as only the Honest Souls can admit the Questioned Truth in knowledge

because only the Honest Souls can admit they are wrong when proven wrong

as only the Honest Souls can be Educated to know the Truth

as the Believers refuse to learn and know and grow forward

in tested reality beyond their Make Believe

as only the proven Fools just Believe with out knowing the Questioned Truth

~

Proven Fact Tested Reality

~ vs ~

Political Parties Destroying Each Other

Destroying America

for

Political Power Control and Greed

based on

Test Proven Ignorance

~

Bruce A. Kershaw

Independent ~ American

Scientist = Skeptic = to always Question the Truth in Knowledge

Born March 27, 1956 ~ Long Beach ~ California

Helena Montana Since 1973

Helena High Class of 74

and then back to California in 1976 for Work and School

and then back to Helena in 1980

with now over 30 plus years of Self-Employment

with working Business Management Experience since 1971

beginning my Freshman year of High School

and with now 44 years of Atmospheric Emission Science Physics and Chemistry

and Heat and Energy Transfer Science

along with many other sciences since 1976

with Two Green Thumbs



January 15 ~ February 11

~ 2020 ~

~

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[co2u.info] 17 [co2u.info]

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#### About Bruce A. Kershaw

Born ~ March 27, 1956 at 11:10 pm Long Beach California other wise I'm still breathing O2 made from CO2 and eating food made from CO2 ~ the rest is Icing on the cake ~

[View all posts by Bruce A. Kershaw → \[co2u.info\]](#)

This entry was posted in [CO2 and Global Warming \[co2u.info\]](#). Bookmark the [permalink \[co2u.info\]](#).

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**CO2 = You and Me ~ by Bruce Kershaw [co2u.info]**

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**From:** [REDACTED]  
**Sent:** Wednesday, February 12, 2020 6:32 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Fw: Reward

**From:** [REDACTED]  
**Sent:** Wednesday, February 12, 2020 6:29 PM  
**To:** [Governor Bullock](#)  
**Subject:** Reward

~  
~\*~

To: The Climate Council  
From: Bruce A. Kershaw

Evaporated

CO2 + Water Vapor + Sun Energy = Green = Environment

CO2 is the byproduct of Warming not the cause of Warming  
over 97% of the CO2 in the air is caused by Nature  
causing the Carbon Oxygen Hydrogen Cycle  
causing all Carbon based Life on this Carbon based Earth  
where everything has carbon in it

if there was zero CO2  
there would be zero plants and Trees  
zero food to eat  
and zero oxygen to breathe  
as plants and trees need four times the CO2 than in the air today to be at good health

\$100,000.00

REWARD

for the peer-reviewed Science Proving Humans cause Climate Warming

and Debunking the NASA Data Proving there is no

Catastrophic Climate Warming

and the Sea Level is not rising

and a 40% increase in Sea Ice

while 2019 was a record cold year here in Montana

and as all heat rises

-200\* below zero Air is crashing downward

with increased levels of Frozen CO2 = Dry Ice

cooling the air 10 times faster and 20 times longer

than the increased level of frozen water vapor crashing downward

causing the Ice caps at the Earths Poles

there are more than a dozen climate variables missing from your lunatic Political Science Fiction

and spending trillions reducing what plants and trees need more of to breathe is Insanity not Science

Bruce

**From:** Tony Vaughn [REDACTED]  
**Sent:** Wednesday, February 12, 2020 6:57 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] We must do what is right

We must do what is right. And we all know what that is. We have the next generation to think about and there is no question, based upon this past January, that if we fail to act, we will fail our children.

Respectfully,

Tony

**From:** [REDACTED]  
**Sent:** Thursday, February 13, 2020 1:10 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] climate change

The earth has been heating and cooling for thousands of years. To make man responsible at this point of time is preposterous. Why spend a lot of money on something we can't control. Money would be better spent cleaning pollution that we did cause.  
R J Lovell

**From:** [REDACTED]  
**Sent:** Thursday, February 13, 2020 10:45 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Climate proposals

1. [Save](#) and expand our wilderness areas.
2. Protect our endangered species and increase the fines assigned to those who kill our endangered protected species.
3. Keep our waters clean of fracking waste, mining waste, sewage run off, and farming pesticide and fertilizer run off. If we need to make it profitable for these polluters to be earth friendly, we must do it. Some people only respond to financial incentives.
4. Encourage organic and earth friendly farming with real economic rewards.
5. Support and set up recycling stations which are convenient to the public across the state.
6. Provide financial payment for plastic bottles, cans, glass containers, and all waste which accumulates in our state. Like Oregon!
7. Make earth friendly behavior cool with some rewards. Make polluting and corporate takeovers very uncool in our beautiful state.
8. Promote our pride in Montana by fostering the image of independence of spirit and love of our natural resources!

We need to make these big-money, greedy, and bullying Republicans uncool in our state. We need to keep and grow our image of a beautiful and nature caring population. Let Trump people come in and trophy hunt for a million dollars per animal taken from our state... to be donated to protecting and enlarging our wilderness land mass. We cannot allow our beautiful state to be ruined by these self serving and greedy interests.  
Create earth friendly jobs all over the state!

Let's make Montana a state we can keep clean and make economically profitable to keep beautiful.

Thank you!  
Jill Weiser

**From:** Enertia [REDACTED]  
**Sent:** Thursday, February 13, 2020 2:28 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Climate Solution

Build houses this way: <http://www.enertia.com/climatechange.html> [enertia.com]

out of Mass timber: <http://www.enertia.com/masstimber.html> [enertia.com]

To this effect: [https://www.prweb.com/releases/innovative\\_mass\\_timber\\_enertia\\_house\\_is\\_a\\_breakthrough\\_solution\\_for\\_climate\\_change/prweb16865802.htm](https://www.prweb.com/releases/innovative_mass_timber_enertia_house_is_a_breakthrough_solution_for_climate_change/prweb16865802.htm) [prweb.com]



To look like this:

Thank you,  
Michael Sykes <http://www.enertia.com/about.html> [enertia.com]



**From:** Scharyn Way [REDACTED]  
**Sent:** Thursday, February 13, 2020 10:47 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Draft Montana Climate Solutions Plan

Thank you for addressing this urgent and supremely important subject.

The draft document is broad-reaching and has some great ideas.

My comments:

- The plan speaks about “planning” “studying” “assessing” and “listening”. Climate action is an urgent priority. I would like to see time frames set to all these Planning stages. I note that there are some dates, and some of them are quite soon, which is wonderful.
- The plan speaks about looking at Statewide and Country wide lessons so that “no community needs to reinvent the wheel”. The USA lags behind most, if not all, developed countries in it’s addressing of climate change. Why not make Montana a “world leader” by looking at worlds best practice, rather than a world “lagger” by only looking within the US?
- Education is only mentioned four times in the document. I’ve lived in Montana for some years and have never heard of most of the currently available energy plans and incentives that the draft plan mentions. How about an education pack, to be given to all households, existing and new that covers such things as:
  - How to reduce energy costs at home immediately (blocking off unused floors, rooms, drafts, light globes)
  - A comparison of the costs associated with say incandescent light bulbs vs LED’s, turning off your TV’s and other items at the power point vs leaving them on standby, energy efficient whitegoods vs non energy efficient, electric, or energy efficient vehicles vs “gas guzzlers”. Recycling vs produced from new, storage hot water heaters vs instantaneous hot water heaters, kettle vs microwave use and probably many other things.
  - Education about protecting your home from wildfires (what type of plants to plant, how far away from the house, that most homes burn down because of flammables being stored or allowed to gather at the base of walls, in gutters etc.
  - Education about wildlife; how different types of fencing affect them (changes to migration paths, injury) and best practice. How different poisons and practices affect pollinators. Feral or even outside cats kill millions of birds a year (at least, some estimates say about 3 billion)
  - Advertisements and information on all the energy saving plans, loans etc that are currently available to householders. Advertisements would also encourage more participation from other companies.
- The plan mentions a “bottom up” strategy for tackling climate change. I don’t think this works, or at least not often, and not soon enough. I believe that at least some “top down” measures must be taken. The draft plan itself is a “top down” measure, and thank you for it! Some things that could be “top down” (ie legislated for) might include:
  - Kerbside recycling.
  - Zoning and building regulations (not just for energy efficiency, but also for wildfire protection)
  - Regulations on hunting and trapping (riparian repair by “mimicking” beavers? How about *real* beavers!).
  - Regulations on pesticides (to rescue pollinators)
  - Fencing regulations that protect or encourage wildlife migration paths
  - Encourage more energy efficient vehicles by making registration of “gas guzzlers” so expensive that people have to make a choice
  - Power Industry specific legislation could include things like:
    - Legislate that within timeframes, a certain amount of electricity generation must come from renewables.
    - Customers could opt to pay a small additional amount for a percentage of their power to generated from renewables, to assist (see South Australian model)
- Government loans could be made available at low interest, or no cost, for people to make their homes more energy efficient through insulation, glazing, or better yet the installation of solar or wind power.
- One thing that did concern me about the plan, if I understood it, was to encourage a change from natural gas to electricity but with no obligatory change to renewable energy.

Finally, what happens when Governor Bullock leaves and we get someone like Gianforte in? Will this whole process stall? Or more likely, reverse? Please don't leave Governor!

Thanks for what has obviously been a lot of hard work and thought beginning this urgent process.

All the best

Scharyn Way.  
Victor,  
Montana.

**From:** [REDACTED]  
**Sent:** Thursday, February 13, 2020 11:22 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Emailing: Global Warming Petition Project

# Global Warming Petition

*31,487 American scientists have signed this petition, including 9,029 with PhDs*

Petition

We urge the United States government to reject the global warming agreement that was written in Kyoto, J in December, 1997, and any other similar proposals. The proposed limits on greenhouse gases would harm environment, hinder the advance of science and technology, and damage the health and welfare of mankind

There is no convincing scientific evidence that human release of carbon dioxide, methane, or other greenh gases is causing or will, in the foreseeable future, cause catastrophic heating of the Earth's atmosphere disruption of the Earth's climate. Moreover, there is substantial scientific evidence that increases in atmosp carbon dioxide produce many beneficial effects upon the natural plant and animal environments of the Ear

 \_\_\_\_\_  Please send more petition cards for me to distrib

Please sign here

My academic degree is B.S.  M.S.  Ph.D.  in the field of PHYSICS

**For information about this project, click on the appropriate box below.**

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[Letter From Frederick Seitz](#)

[List of Signers By State](#)

[List of Signers By Name](#)

[Purpose of Petition](#)

[How Petition is Circulated](#)

[Instructions for Signing Petition](#)

[Qualifications of Signers](#)

[Frequently Asked Questions](#)

**From:** [REDACTED]  
**Sent:** Thursday, February 13, 2020 11:11 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Emailing: Home

**Our mission:**

Via collaboration, creation of a publicly available photographic database of weather stations and weather station metadata.

**NEWS** Updated

New paper in process, see details [here \[wattsupwiththat.com\]](#)

**NOTE:** [Surfacestations.org](#) gallery server has received heavy traffic and some attacks in the last 24hrs. The online image database aka gallery server site has been put into safe mode to secure backups and make it more secure.

After months of work, **our paper has been accepted**, read summaries on the paper at these locations:

Dr. Roger Pielke Senior's website [here \[pielkeclimatesci.wordpress.com\]](#)

Dr. John Neilsen-Gammon's website [here \[blog.chron.com\]](#)

Anthony Watts website [here \[wattsupwiththat.com\]](#)

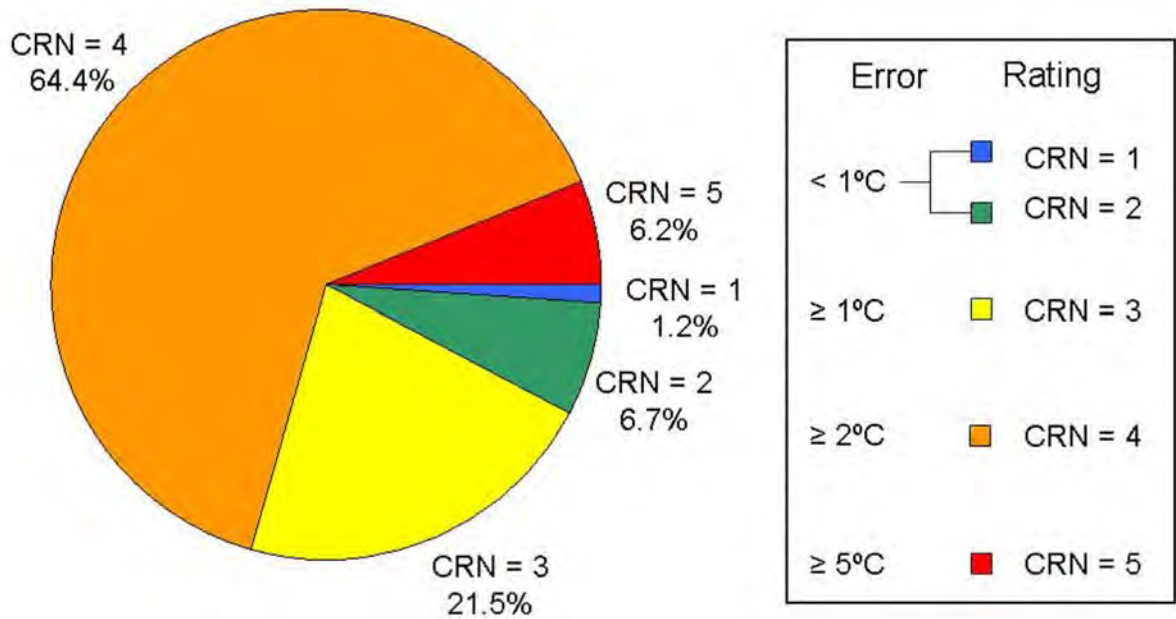
Media Resource - download PDF [here](#)

Link to the paper (final print quality), Fall et al 2011 [here \[pielkeclimatesci.files.wordpress.com\]](#) (**updated**)

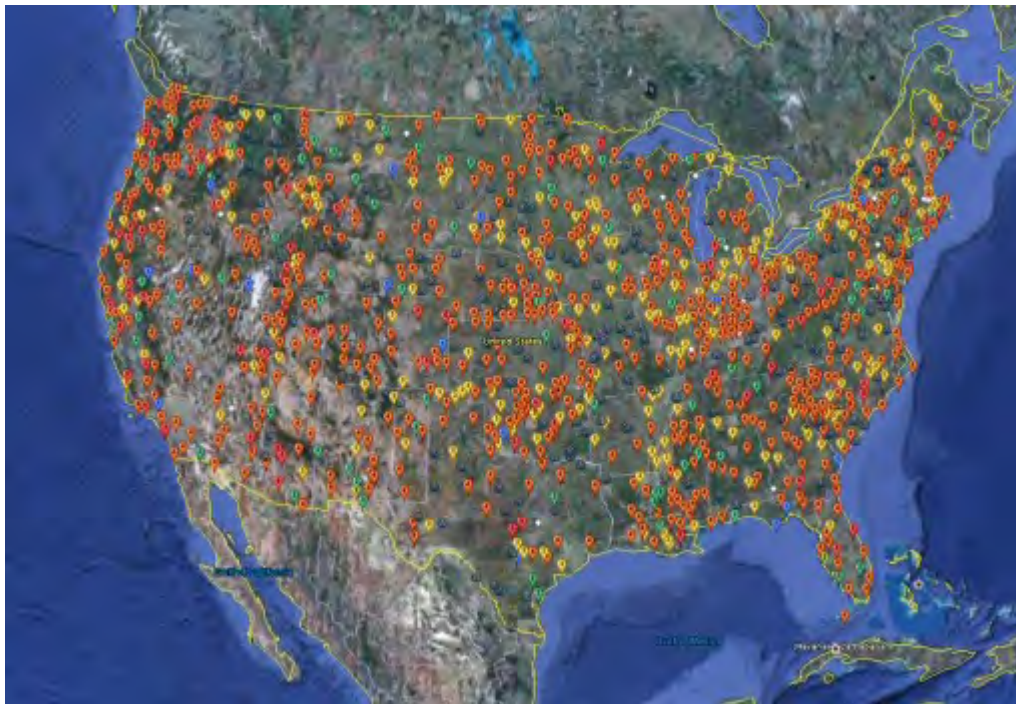
Fall et al 2011 supplementary information [here](#)



**Visit the k**  
[\[wattsupw](#)  
highlighted  
"How Not t  
[\[wattsupwi](#)



**Surface stations project reaches 82.5% of the network surveyed.** 1007 of 1221 stations have been examined in the USHCN network. The Google Earth map below shows current coverage.



CRN Rating key	1	2	3	4	5	Unrated
Estimated Error in °C (per NOAA)	Error ≤1°C	Error ≤1°C	Error ≥1°C	Error ≥2°C	Error ≥5°C	Unrated
Quality	Best	Good	Fair	Poor	Worst	Closed

Reference for site ratings: NOAA's [Climate Reference Network Site Handbook \[ncdc.noaa.gov\]](http://ncdc.noaa.gov) Section 2.2.1

Sincere thanks to Gary Boden and Barry Wise for this contribution!

Site lau

Progress

USHCN

1068

USHCN

1007

USHCN

214

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- Roger Pie  
University

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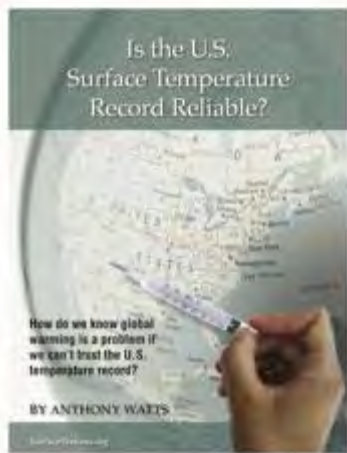
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[\[wattsupwiththat.files.wordpress.com\]](http://wattsupwiththat.files.wordpress.com) **Mid term census report of the Surface Stations Project:** Is the U.S. Surface Temperature Record Reliable? - click cover image at left to download a PDF document. Now at 80%, and with a majority sample that is spatially well distributed, a full analysis will be coming in the next few months. We will however continue to survey stations in the hope of locating more CRN1 and CRN2 stations due to their rarity.

The upcoming papers will feature statistical analysis of the nationwide USHCN network in the context of siting.

Direct link to PDF of the report is [here](http://wattsupwiththat.files.wordpress.com)  
[\[wattsupwiththat.files.wordpress.com\]](http://wattsupwiththat.files.wordpress.com)

### **HELP NEEDED FOR SURVEYS IN THE FOLLOWING STATES:**

**Kansas, Nebraska, Arkansas, Illinois, Missouri, North Dakota, Idaho, South Dakota, Texas.**

Excerpt graphics from the report are below:

Station quality ratings obtained from NOAA/NCDC via this source:

**Climate Reference Network Rating Guide - adopted from NCDC Climate Reference Network Handbook, 2002, [specifications for siting \[ncdc.noaa.gov\]](http://ncdc.noaa.gov) (section 2.2.1) of NOAA's new Climate Reference Network:**

Class 1 (CRN1)- Flat and horizontal ground surrounded by a clear surface with a slope below  $1/3$  ( $<19$ deg). Grass/low vegetation ground cover  $<10$  centimeters high. Sensors located at least 100 meters from artificial heating or reflecting surfaces, such as buildings, concrete surfaces, and parking lots. Far from large bodies of water, except if it is representative of the area, and then located at least 100 meters away. No shading when the sun elevation  $>3$  degrees.

Class 2 (CRN2) - Same as Class 1 with the following differences. Surrounding Vegetation  $<25$  centimeters. No artificial heating sources within 30m. No shading for a sun elevation  $>5$ deg.

Class 3 (CRN3) (error  $\geq 1C$ ) - Same as Class 2, except no artificial heating sources within 10 meters.

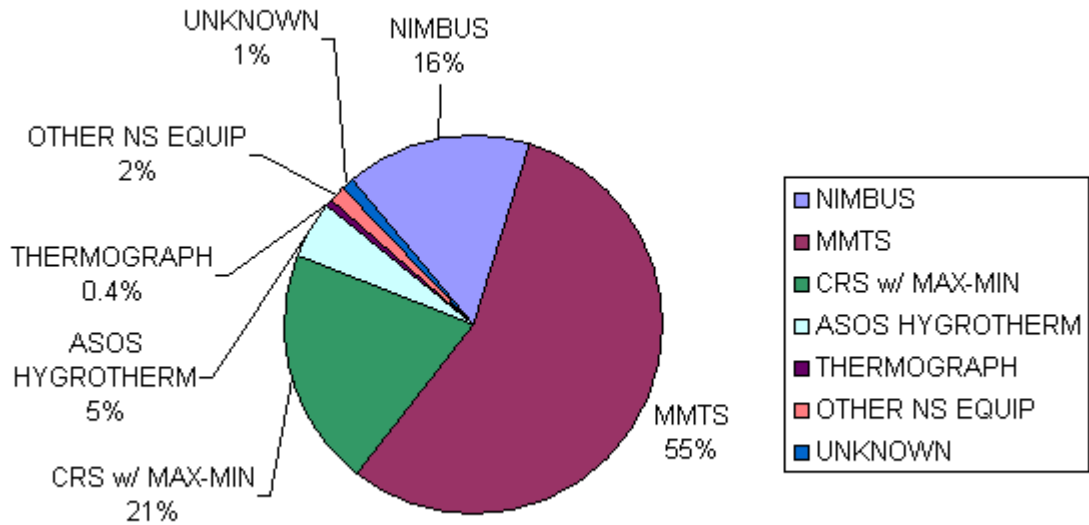
Class 4 (CRN4) (error  $\geq 2C$ ) - Artificial heating sources  $<10$  meters.

Class 5 (CRN5) (error  $\geq 5C$ ) - Temperature sensor located next to/above an artificial heating source, such a building, roof top, parking lot, or concrete surface."

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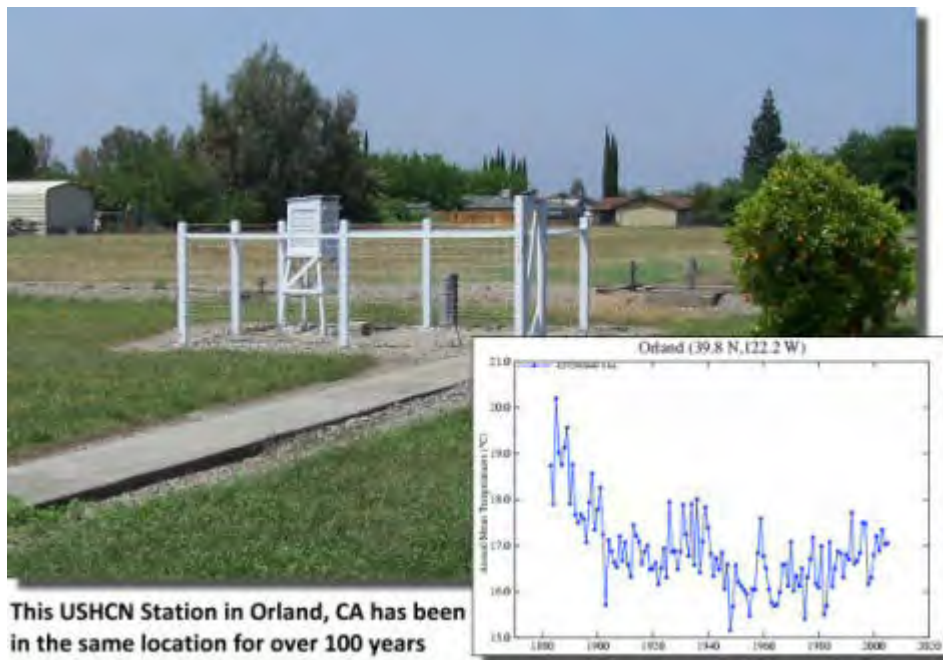
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## USHCN Equipment Types



- MMTS Thermometer Specifications/Guide has been posted in [resources](#)
- Latest updates feature added - see [newest stations here](#) [[gallery.surfacestations.org](http://gallery.surfacestations.org)]

Here is a well maintained and well sited USHCN station:



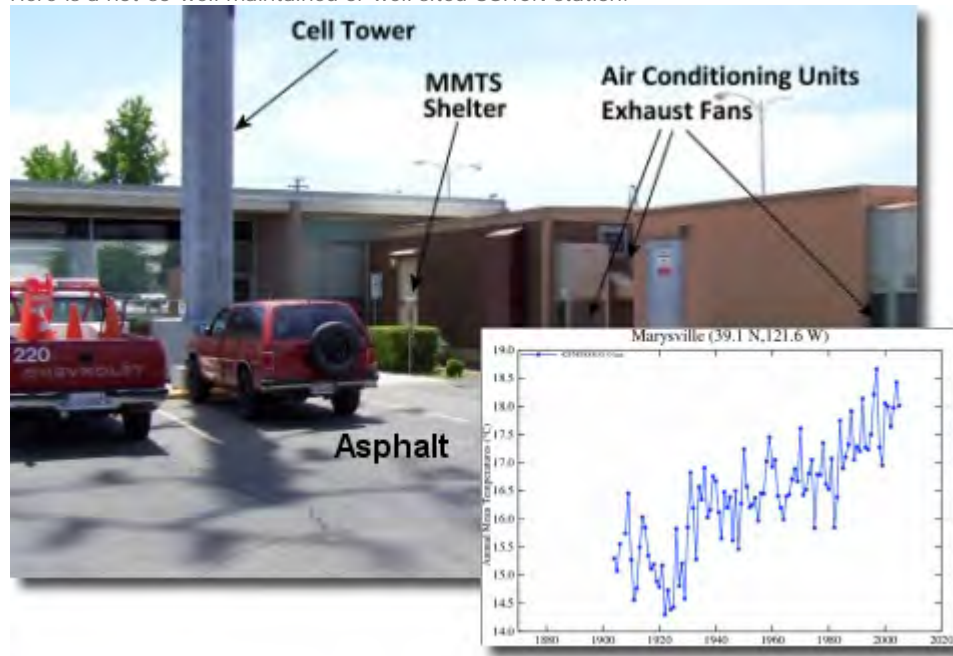
[\[gallery.surfacestations.org\]](http://gallery.surfacestations.org)

Graph is from [NASA GISS \[data.giss.nasa.gov\]](http://data.giss.nasa.gov) - see it [full size \[data.giss.nasa.gov\]](http://data.giss.nasa.gov)

[Click pictures for complete site surveys of these stations](#)



Here is a not-so-well maintained or well sited USHCN station:



[[gallery.surfacestations.org](http://gallery.surfacestations.org)]

Graph is from [NASA GISS \[data.giss.nasa.gov\]](https://data.giss.nasa.gov) - see it [full size \[data.giss.nasa.gov\]](https://data.giss.nasa.gov)

**This site in Marysville, CA has been around for about the same amount of time, but has been encroached upon by growth in a most serious way by micro-site effects.**

## What you'll find here

- Site surveys of USHCN, GHCN, CWO, and other weather station networks
- Photographic views and sketches of instrumental sitings
- Historical notes on each station when available
- Survey notes about nearby objects, surfaces, and sensor placement
- Supplemental notes and photographs when applicable



[[s37.sitemeter.com](https://s37.sitemeter.com)]

**From:** [REDACTED]  
**Sent:** Thursday, February 13, 2020 11:13 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Emailing: Journal of the American Physicians and Surgeons - Vol. 12 No. 3



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*Noah E. Robinson, Ph.D.*  
*Willie Soon, Ph.D.*  
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*Liberalism Is a Mental Disorder* (Michael Savage)

Reviewed by Dan E. Phillips, M.D.

*The Politically Incorrect Guide to Science* (Tom Bethell)

Reviewed by Todd B. West, M.D.

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**From:** [REDACTED]  
**Sent:** Thursday, February 13, 2020 11:10 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Emailing: The Direct and Indirect Effects of Increased Carbon Dioxide on Plant Growth

**San José State University**

[applet-magic.com](http://applet-magic.com)

Thayer Watkins  
Silicon Valley  
& Tornado Alley  
USA

**The Direct and Indirect Effects of Increased  
Carbon Dioxide on Plant Growth**

The direct effects of increased carbon dioxide (CO<sub>2</sub>) on plant growth refers to the change in plant grow with the levels of temperature, precipitation, evaporation and growing season at their present values. The indirect effects include the results of any changes in the other variables which affect plant growth that come as a result of the effect of increased CO<sub>2</sub> on global climate.

### **Photosynthesis and the C3/C4 Plant Classification**

Life is based upon chemical reactions; many, many chemical reactions; but the chains of chemical reactions known as *photosynthesis* are the basis in one way or another of all life. Photosynthesis involves the input of carbon dioxide and water with radiant energy and the presence of a catalyst called *chlorophyll*. The outputs are carbohydrates and oxygen. The formal statement of the process is:

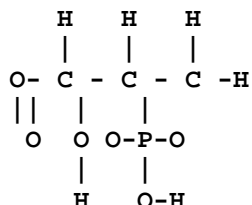


where  $\nu$  represents photons of radiation.

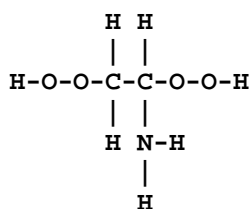
The catalyst for the reaction, chlorophyll, is an organo-metallic compound containing magnesium. It is one of the three organo-metallic compounds which are the basis for life. The other two are the vital elements of the blood of mammals, hemoglobin, and of crustaceans, hemocyanin. Just as chlorophyll contains magnesium, hemoglobin contains iron and hemocyanin contains copper.

The process of photosynthesis is very complex and chemists could find out little about the processes until radioactive isotopes became available. First, the heavier isotope of oxygen,  $^{18}\text{O}$ , was used to create water,  $\text{H}_2\text{O}$ . When plants were exposed to this abnormal water the  $^{18}\text{O}$  isotope showed up in the mass spectrographic analysis of the oxygen exhaled from the plants. This showed that the oxygen created by plants comes from the water it uses rather than from the  $\text{CO}_2$ . The oxygen in the  $\text{CO}_2$  gets incorporated in the carbohydrates created by the plants.

Second, a radioactive isotope of carbon,  $^{14}\text{C}$ , was used to create carbon dioxide. Plants were exposed to this radioactive  $\text{CO}_2$  for a few seconds and then the leaf material was chemically analyzed. In most plants the radioactive carbon showed up in a compound called *phosphoglyceric acid* (PGA). The molecule of this compound contains three carbon atoms and one atom of phosphorus:



Most plants, including trees and flowering plants, produce PGA as the first step in photosynthesis. A few plant species, including tropical grasses such as sugar cane and corn (maize), produce malic acid or aspartic acid as the first step. The molecules of these compounds contain four carbon atoms and one nitrogen atom. The aspartic acid molecule is:



Because the initial products of photosynthesis for plants in this category involve compounds containing four carbon atoms this class is called **C4**. The other category of plants produces PGA which contains three carbon atoms so it is called **C3**. This classification is important because the responses of the two categories of plants to increased CO<sub>2</sub> are different.

The **C3** vegetation developed about 3.5 billion years ago whereas the **C4** vegetation developed only about 12 million years ago. **C4** vegetation is better able to survive in hot climates than is **C3** vegetation so now **C4** vegetation dominates the tropics and **C3** the temperate zone.

### **The Direct Effect of an Increase in CO<sub>2</sub>**

Over the years there have been numerous laboratory experiments which conclude that increases levels of CO<sub>2</sub> result in increased plant growth no matter how that plant growth is quantified. Sylvan Wittwer in *Food, Climate and Carbon Dioxide* tabulates the results. He observes

The effects of an enriched CO<sub>2</sub> atmosphere on crop productivity, in large measure, are positive, leaving little doubt as the benefits for global food security .... Now, after more than a century, and with the confirmation of thousands of scientific reports, CO<sub>2</sub> gives the most remarkable response of all nutrients in plant bulk, is usually in short supply, and is nearly always limiting for photosynthesis ... The rising level of atmospheric CO<sub>2</sub> is a universally free premium, gaining in magnitude with time, on which we can all reckon for the foreseeable future.

The quantification of the enhanced growth due to higher levels of CO<sub>2</sub> has been given by H. Poorter in an article in the journal *Vegetation*:

**Increased Growth  
Resulting from a**

100 Percent Increase in the Level of CO <sub>2</sub>	
Plant Type	Proportional Increase
C3	41%
C4	22%

About 95 percent of all plants on Earth are of type C3. C4 plants constitute only 1 percent but the C4 crops of sugar cane, corn, sorghum and millet are economically significant. The other 4 percent of plants are not economically significant. They include desert plants such as cactus. These plants are labeled CAM for Crassulacean Acid Metabolism. They keep their stomata closed during the day to prevent excessive loss of water and open during the night to absorb CO<sub>2</sub>.

**The Effect of Temperature on Plant  
Response to Higher Levels of CO<sub>2</sub>**

Photosynthesis consists of chemical reactions. Chemical reactions proceed at a higher rate at higher temperatures. The rule of thumb is that there is a doubling of the reaction rate for every 10°F rise in temperature. Plants grow faster at a higher temperature providing they have adequate levels of CO<sub>2</sub>, water, sunlight and plant nutrients. The C4 plants have a great response rate for a higher temperature than does the C3 plants.

A higher temperature without adequate level of the necessary ingredients for growth might produce no response or even damage. Sylvan Wittwer, quoted above, states that under most circumstances the availability of CO<sub>2</sub> is the factor which limits growth. Thus with a higher level of CO<sub>2</sub> in the air plants can grow faster with a higher temperature.

Plants transpire water vapor to keep an even temperature. There are tiny holes on the underside of plant leaves, called *stomata*, which are the openings through which the plant absorbs CO<sub>2</sub>. With higher level of CO<sub>2</sub> concentration in the air the

stomata do not have to be open as wide. The narrower opening means that less water is transpired and thus less water is required by the plants. In other words, higher levels of CO<sub>2</sub> increase the efficiency of water use by plants. This was confirmed in experiments reported by K.E. Idso and S.B. Idso. They found that enhanced CO<sub>2</sub> increased growth by 31 percent in plants with adequate moisture but it increase growth by 62 percent for plants in moisture-stressed condition. In effect, enhanced CO<sub>2</sub> by reducing water loss created the same effect as providing more water. Thus the effect in moisture-stressed plants was the effects of enhanced CO<sub>2</sub> plus the effect of increased water.

The effect of increased CO<sub>2</sub> in narrowing the stomata of plants has the additional benefit that a lesser amount of pollutants in the air will make it through the narrower openings. Thus enhanced CO<sub>2</sub> has the effect of protecting plants against damage from air pollutants such as ozone or sulfur dioxide.

The effect of enhanced CO<sub>2</sub> is even greater for plants grown under low light conditions. The enhance growth is greater than 100 percent for a 100 percent increase in CO<sub>2</sub>. This compares to less than 50 percent for plants grown in normal light conditions.

The evidence that clinches the argument is that some greenhouse owners artificially elevate the CO<sub>2</sub> level to triple what the level in the atmosphere is.

(To be continued.)

---

**Sources:**

Sylvan H. Wittwer, "Flower power: rising carbon dioxide is great for plants", *Policy Review* (Fall 1992), pp. 4-10.

H. Poorter, "Interspecific variation in the growth response to an elevated and ambient CO<sub>2</sub> concentration," *Vegetation* (1993), pp. 77-97.

Sylvan H. Wittwer, *Food, Climate and Carbon Dioxide*, CRC Press, Boca Raton, Fla., 1995.

Patrick J. Michaels and Robert C. Balling, Jr., *The Satanic Gases: Clearing the Air about Global Warming*, Cato Institute, Washington, D.C., 2000.



Fred Pearce, "Global green belt," *New Scientist*, (September 15, 2001), p.15.

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[\[applet-magic.com\]HOME PAGE OF \*Thayer Watkins\* \[sjsu.edu\]](#)

**From:** Harbage, Rebecca  
**Sent:** Thursday, February 13, 2020 10:53 AM  
**To:** Climate Council  
**Subject:** Fwd: [EXTERNAL] FW: Draft Montana Climate Solutions Plan --Comments

Sent from my iPhone

Begin forwarded message:

**From:** Michael Pepion [REDACTED]  
**Date:** February 13, 2020 at 10:23:53 AM MST  
**To:** "Harbage, Rebecca" <RHarbage@mt.gov>  
**Subject:** [EXTERNAL] FW: Draft Montana Climate Solutions Plan --Comments

Hello Rebecca,  
I left you a message today. I sent my comments below, but the email bounced back. So, if you can please forward my comments to the appropriate location, or if there is another functional email for Climate Solutions , send it along and I can then forward my comments.

Thanks,

Michael Pepion  
Hamilton MT

---

**From:** Michael Pepion  
**Sent:** Wednesday, February 12, 2020 10:10 AM  
**To:** ClimateCouncil@mt.gov  
**Subject:** Draft Montana Climate Solutions Plan --Comments

I have reviewed the preliminary recommendations document and vastly support all that is brought forth. The following are my comments in addition to the prelim recommendations:

- Broadly incentivize energy conservation for consumers: tax incentives for all forms of energy efficiency efforts for homes/home owners
- Similarly to the above, require rental home landlords/owners to bring all rental properties to optimum energy conservation/efficiency standards. Incentivize rental home rental owners to upgrade properties: Require energy audits to assess energy efficiencies of rental properties, the results of which be made public. Penalize rental owners with caps on public rental rates, with additional possible fines if energy audit values represent measures considered to be wasteful and expensive.
- Include the states two Job Corps programs as resources for workforce development, and placement of certified trained at risk youth for jobs within the state for work directly related to all areas of the state's preliminary recommendations.

Thankyou, for the opportunity to comment!

Michael Pepion, MSW  
Hamilton MT

**From:** [REDACTED]  
**Sent:** Thursday, February 13, 2020 8:13 AM  
**To:** [REDACTED]  
**Subject:** [EXTERNAL] Greenhouse Theory Goetz Kerbluey  
**Attachments:** Trenberth Diagram 2009.pptx

Because the albedo/atmosphere reflect 30% of the incoming solar energy the earth is cooler with that albedo/atmosphere than without. Without an atmosphere the earth would receive 30% more kJ/h becoming a barren rock much like the moon, hot<sup>3</sup> on the lit side, cold<sup>3</sup> on the dark.

This observation is easily confirmed by comparisons with the moon as Nikolov, Kramm suggest and UCLA Diviner mission observes. This refutes the RGHE theory which postulates just the opposite, that the earth sans atmosphere would be a -430 F ball of ice or 288 K w/ - 255 K w/o = 33 C cooler. (Rubbish!)

Because of the non-radiative heat transfer processes of the contiguous participating atmospheric molecules, 396 W/m<sup>2</sup> of BB LWIR upwelling from the surface is not possible.

As I demonstrate in the grand science tradition of performing experiments: <https://principia-scientific.org/debunking-the-greenhouse-gas-theory-with-a-boiling-water-pot/> [principia-scientific.org]

Without the 396 W/m<sup>2</sup> upwelling LWIR there is no net 333 W/m<sup>2</sup> for the GHGs to "trap", "back" radiate or warm anything anywhere.

There is no radiative greenhouse effect and the non-existent GHGs do not "warm" the terrestrial surface.

Nick Schroeder, BSME CU '78  
Colorado Springs, CO  
80920  
01 719 651 7383

**From:** Lynn [REDACTED]  
**Sent:** Thursday, February 13, 2020 10:05 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Keystone XL Pipeline  
**Attachments:** KEystone XL.docx

I've been fighting this insane activity since 2014. Now since the irresponsible, idiotic and ignorant Trump administration, you know, the one who loves our enemies and hates whatever the astute Obama Administration accomplished in regards to Climate action, has done their damnest to destroy no less that the Earth and its people. Now is the time for all good men and women to come to the aid of their country!

My Boomer Generation and Generation X (our kids) have failed miserably to mitigate the global warming/climate change paradox. I am encouraged, however, by the activities in this arena by Millennials! Greta Thunberg has energized her generation to finally take serious action. She sailed all the way across the Atlantic Ocean and for exercise, she would step out of the boat and walk on the water whenever she wanted to!

Let's do whatever we can to help this generation because the Earth's health is already in grave danger!

Enclosed is my letter to the Fort Peck Natives.

Sincerely,

Lynn Leroy Arney  
Absarokee

Sent from [Mail \[go.microsoft.com\]](mailto:go.microsoft.com) for Windows 10

**From:** Tim Peterson [REDACTED]  
**Sent:** Thursday, February 13, 2020 10:11 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Montana Climate Solutions Plan

MONTANA CLIMATE SOLUTIONS PLAN Preliminary Recommendations and Key Questions For Partner and Public Comment

I applaud this effort. This phase of the effort is essential to creating the energy, buy-in and enthusiasm for making real change. "People own that which they help to build." - Margaret Wheatley

Your wording is weak. Nothing in this document can suggest that taking action is optional. Remove should and replace it with must. Climate change is an existential threat to our existence on this planet. The only thing that is more of a threat is that our education system doesn't teach emotional intelligence, personal mental health and empathy. Our society is one focused on MLK's statement about only love can drive out hate which assumes that hate is the predominant emotion when in fact we should be focused on emphasizing that love be the default state and that only hate can drive out love. I digress.

This document should state that the scientific method must be used with regular reassessments of the data and collaborative adaptation to the changing environment. A plan that focuses on planning instead of action is plan doomed to fail. The state doesn't need to provide guidance, prioritize research, or develop anything. The state must demand change and create momentum, incentivize and reward action. The state must DO, it must LEAD, it must FUND, it must be DEMONSTRATIVE.

Talk is cheap.

Thank you for taking this first action in what will be a long and arduous journey.

"Change always involves a dark night when everything falls apart. Yet if this period of dissolution is used to create new meaning, then chaos ends and new order emerges."

— Margaret Wheatley

--  
Tim Peterson  
[REDACTED]

**From:** Donald DeLauder [REDACTED]  
**Sent:** Thursday, February 13, 2020 4:03 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Suggestion for fair energy generation payments for Solar Cell generation

There would be a whole lot more houses with Solar Cells generating power for our great state of Montana if the power companies were made to purchase the power fed back into the power grid by households. Also, this would be an added perk for installing solar cells on our houses.

Think of how much greenhouse gasses would be reduced in Montana if those wise enough to switch to solar would be reimbursed by the power companies for electric power generated by the individual households if the power companies were required to buy the power from those generating power with their solar cells.

Donald DeLauder

**From:** John Noreika [REDACTED]  
**Sent:** Friday, February 14, 2020 1:16 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Draft Climate Solutions Plan Feedback From a Private Citizen

Dear Governor Bullock, Council Members and Critically Important Assigned Staff,

I have followed this process intently for months. I deeply appreciate the extraordinary talent, hard work and vision that has gone into this process. With an abiding faith in reason, I remain optimistic a solution to the climate crisis is now evolving that will accelerate through 2035 to the end of this Century.

My specific feedback today is to ask you-all to endorse and support the following over-arching political proposition, which I have shared, in advance, with our Governor and our Congressional Delegation:

REUNITE Montana: Governor Bullock, Senator Daines, Senator Tester, and Representative Gianforte, unite us to take aggressive action now to fight climate change to save Mother Earth. If you divide us, if you allow us to be locked behind bars of indecision and inaction, if you allow us to remain blind to the signs of accelerating global warming all around us; then we shall fail in our sacred obligation to all future generations, to be good stewards, to pass on an Earth better than the one we inherited.

With the Governor's Climate Solutions Council's release of its initial Plan for public comment between now and March 31, 2020, to be finalized before the 2020 elections; this is an unprecedented leadership opportunity to remove climate change as a partisan issue in Montana and, possibly ensuring continuity between state administrations.

Most Americans want aggressive action now to fight climate change! According to a June 2019 national poll by Reuters, 69% of Americans - including 56% of Republicans and 71% of independents – want this.

Up to now, advocates for decarbonization have routinely suggested that action on climate change necessarily means economic sacrifice. This initial Plan shows clear well-thought-out practical pathways for rebuilding with renewable energy that no longer involve trade-offs between the economy and the environment.

REUNITE the United States: With a deep bipartisan consensus like that achieved to win World War II, that endures for the rest of this century; we can work together to present practical free-market-based solutions that don't raise taxes but rebuild our energy economy! We have the know-how to arrest dramatic climate change. Impossible if doubts remain. The 2020 elections are our last chance to unite the country in rebuilding our energy economy. The lead-time between a political and operational consensus is often long.

Sincerely,

John A. Noreika, Sr.

**From:** Kryn Dykema [REDACTED]  
**Sent:** Friday, February 14, 2020 11:04 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Montana Climate Solutions Plan

Hi there,

I hope you are doing well. I am writing after reviewing Governor Bullock's release of the Draft Solution Plan for climate change in Montana. I am thrilled to see this take a more formal and front-facing position. My initial comments are entirely positive; I am empowered to see our state take initiative against this urgent matter.

As a recent college graduate, I am especially concerned with the future effects of climate change and thus am eager to see concrete improvements to work against it. I would like to see more mitigation techniques included in the plan, however. I see the emphasis on adaptation as a sort-of submission to the inevitability of climate change, and although I recognize the truth behind this, I would like to see a promotion of strategies that are more active in mitigating change before it happens. Facilitating clean public transportation, promoting renewable energies and removing restrictions to their installation, restricting fossil fuel use, etc. are ways that we might avoid change rather than accepting new conditions and learning to live with them.

I see Montana as a state that is uniquely placed in its' development to allow for a pursuit of new innovations and developing technologies pre-emptively: We do not need to make the same mistakes larger cities have made, learned from, and are working to remedy. Instead, we can learn from their examples and plan accordingly to zone for efficient rail-systems, incorporate renewables as a standard in both cities and rural areas, reduce waste and consumption now with the understanding that our population is growing and the impact will become more concentrated.. I see so much potential to embrace climate solutions and become a case-study for sustainability at a state level. I am very excited to watch this develop.

Thank you so much for your work, I am sending my best.

Take care,

Kryn Dykema



**From:** [REDACTED]  
**Sent:** Friday, February 14, 2020 10:51 AM  
**To:** DEQ Communications Team  
**Subject:** Suggestions,

I have searched the States climate change mitigation proposals and could not find anything that would make a serious impact on climate change, air pollution, garbage or sewage recycling, forest clean up or any meaningful thing.

Doesn't the State know about Bioroot Energy located Darby Mt? The CEO, Jay Toups, has been fighting for years trying to help with all of these issues and has a viable solution, but no one listens.

He wants to take societal wastes such as forest detritus or duff, sewage, landfill garbage and old tires and turn them into an EPA approved liquid fuel called Higher Mixed Alcohol. Mr. Toups has spoken internationally about this process and won awards for his ideas. Yet, in his own State his voice is not heard.

I suggest whoever reads this email, do a little "due diligence" and then give Jay a call at [REDACTED].

- Mark Snider

**From:** Craig Sundberg <[REDACTED]>  
**Sent:** Saturday, February 15, 2020 5:46 PM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Climate Solution, Shade Trees

With all the talk of complex solutions to climate change, one of the simplest was brought to my attention by my immigrant wife who said "You know what America's problem is? there are no shade Trees' .

I thought about that and she was right, before Air Conditioning was available to everyone we did indeed have shade trees and they graced nearly every yard.

Now they are almost non-existent while people rely instead on modern technology.

Not only can a tree help keep your house cool, but it can of course help keep the air cool in a given area thus reducing overall heat and the bonus of CO2 capture as well.

Why not propose tax incentives for homes that have shade trees?

Seems pretty simple to me

Craig C Sundberg

**From:** Rick Magstadt [REDACTED]  
**Sent:** Saturday, February 15, 2020 9:09 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Draft Plan Commentary

To the Respected Members of the Climate Council:

I am a retired geologist. I am not a skeptic of climate change nor do I question that co2 is a global warming gas. I am, however, skeptical of many of the claims and catastrophic projections, and caution the Council to be objective.

Upon review of the draft plan, there are many elements that should be supported regardless of political view or scientific position on AGW. I urge you to focus on those portions.

Politically, many conservatives will support a plan that reduces our state's environmental impact. Hyperbole in climate change communications will work against their support. Look for solutions with benefit other than just co2 reduction, and avoid speculation, political opportunism, and media sensationalism.

Efficiency and cost effectiveness go hand in hand. Cost effectiveness must be addressed to avoid regressive policies in a state that already ranks among the poorest. Alternative energy must be unsubsidized and stand on it's own merits.

Promote nuclear energy. Thorium reactors have been established as incredibly safe. Montana is an excellent rural venue with low risk geologically, as well as from cyclonic weather events. There is simply no other way to inexpensively provide energy as a counter to fossil fuels.

Geologic sequestration has great potential as an offset. However, watch for unintended consequences. Suitable formations and subsurface conditions should be well studied.

Thank you for the opportunity to comment.

Rick Magstadt  
[REDACTED]  
Bigfork, MT 59911

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**From:** Bonnie Eldredge [REDACTED]  
**Sent:** Saturday, February 15, 2020 9:01 AM  
**To:** Climate Council  
**Subject:** [EXTERNAL] Response to Montana plan for sustaining MT Environment

The report is amazingly complete, it seems to me. Many aspects of the Mt environment are covered. I was particularly impressed with the idea of on-bill financing for projects affecting costs to Mt. Consumers. This document and the proposals are so all encompassing as to be prohibitive to citizens, such as myself. Are we tackling too much at one time?

I wish MONTana would tackle the messes in MONTana's environment on the ground. Driving across the state one sees so many abandoned cars, trailers, and farm machinery. Why can't we get that junk removed? And why isn't it imperative that owners of JUNK-filled properties be fined and/or taxed? Abandoned mobile homes and vehicles are a blight on our state! (Miles City has terrible blight just north of the city on the old highway! Do we just "leave these total messes?")

If we get a Republican governor and president, we can kiss improvements GOOD BYE! Because, as you know, "there is no problem with the environment!"