

**2025 HOUSE AGRICULTURE**

**HB 1514**

# 2025 HOUSE STANDING COMMITTEE MINUTES

**Agriculture Committee**  
Room JW327C, State Capitol

HB 1514  
2/6/2025

A BILL for an Act to create and enact a new chapter to title 23.1 of the North Dakota Century Code, relating to harmful atmospheric activity; and to provide a penalty.

9:59 a.m. Chairman Beltz opened the meeting.

Members Present: Chairman Beltz, Vice Chairman Hauck, Representatives K. Anderson, Dobervich, Henderson, Holle, Hoverson, Kiefert, Nehring, S. Olson, Rios, Schreiber-Beck, Tveit, Vollmer

## **Discussion Topics:**

- Weather modification applications
- GEO engineering
- Environmental regulations beyond federal law
- Restrict tracking aircraft
- Environmental safety

9:59 a.m. Representative Desiree Morton, District 46, Fargo, ND, introduced, testified and submitted testimony #35887, #35900, and #35901.

10:15 a.m. Sharlet Mohr, Williston, ND submitted testimony in favor #35748.

10:21 a.m. Dani Quissell, ND Weather Modification Association, testified in opposition and submitted testimony #35385.

10:28 a.m. David Glatt, Director, North Dakota Department of Environmental Quality (DEQ), testified in opposition and submitted testimony #35831.

10:42 a.m. Darin Langerud, Division Director, Atmospheric Resources, Department of Water Resources, testified in opposition and submitted testimony #35471.

## **Additional written testimony:**

Jonathan Jennings, President, Weather Modification Association, submitted testimony in opposition #33922.

Jake Serago, President, North American Weather Modification Council, submitted testimony in opposition #33928.

Josey L. Milbradt, Bismarck ND, submitted testimony in favor #35198.

Mary Massad, President, ND Water Users Association, submitted testimony in opposition #35382.

Roger E. Neishem, Board member, Ward County Weather Authority, submitted testimony in favor #35422.

Kristen M. Bechtold, Velva, ND, submitted testimony in favor #35486.

Jeremy Crandall, Assistant Vice President, CTIA, submitted testimony in opposition #35551.  
Mary Dennis, Stanley, ND, submitted testimony in favor #35561.  
Kyle C. Wanner, ND Aeronautics Commission, submitted testimony in opposition #35579.  
Joel Dennis, Stanley, ND submitted testimony in favor #35582.  
Jaye Sandstrom, New Town, ND, submitted testimony in opposition #35590.  
Amy Dennis, Stanley, ND submitted testimony in favor #35616.  
Jon Wert, New England, submitted testimony in favor #35694.  
Wyatt C. Thompson, Mohall, ND submitted testimony in favor #35744.  
Lanny D. Kenner, Bismarck, ND, submitted testimony in favor #35761.  
Jamie L. Kouba, Natural Weather Advocate/Agriculture, submitted testimony in favor #35759

10:56 a.m. Chairman Beltz closed the hearing.

*Diane Lillis, Committee Clerk*



**Weather Modification Association**  
*PO Box 845, Riverton, UT 84065*

**Jonathan Jennings**

Meteorologist and Cloud Seeding Coordinator  
1594 W North Temple, Suite 310  
Salt Lake City, UT, 84116  
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801-538-7262

**The Honorable Mike Beltz**

Chairman  
House Agriculture Committee  
600 East Boulevard Avenue  
Bismark, ND 58505  
**Subject:** HB 1514

Dear Chairman Beltz,

I hope this letter finds you well. As the Meteorologist and Cloud Seeding Coordinator for the State of Utah and the President of the Weather Modification Association, I am reaching out to clarify an important topic of public concern: the distinction between cloud seeding and the idea often referred to as "chemtrails."

First and foremost, I understand the curiosity and skepticism that sometimes surrounds atmospheric modification efforts, especially with the prevalence of misinformation. Cloud seeding, however, is a scientifically established, transparent, and rigorously monitored process aimed at enhancing natural precipitation to benefit water resources. This is especially critical in regions like ours, where drought and water scarcity present ongoing challenges.

**Key Differences Between Cloud Seeding and "Chemtrails":**

**1. Cloud Seeding:**

- Uses small amounts of safe, widely studied materials, such as silver iodide or salt, to encourage cloud condensation and ice crystal formation.
- Is conducted under strict regulatory oversight, including permits issued by state agencies.
- Is focused on increasing precipitation for reservoirs, agriculture, and ecological benefit.

**2. "Chemtrails":**

- Refers to a conspiracy theory alleging that airplanes deliberately release harmful chemicals into the atmosphere.
- Lacks scientific evidence or credible documentation.
- It is often confused with normal contrails, which are water vapor trails produced by aircraft engines under specific atmospheric conditions.



**WEATHER MODIFICATION  
ASSOCIATION**

**Weather Modification Association**

*PO Box 845, Riverton, UT 84065*

I would be happy to provide detailed information about our cloud seeding operations, including studies demonstrating their safety and effectiveness. Additionally, I am open to arranging a briefing so you and your constituents can better understand the science behind this valuable water resource management tool.

It is my hope that with accurate information, you change the language to exclude cloud seeding efforts for the purpose of precipitation enhancement from your bill. Your voice as a leader can help address concerns, promote understanding, and reinforce confidence in the responsible practices we employ.

Thank you for considering this matter. I would be glad to discuss further or answer any questions you may have. Please feel free to contact me at your earliest convenience.

Sincerely,

A handwritten signature in blue ink, appearing to read "J. Jennings", with a stylized flourish at the end.

**Jonathan A. Jennings**

Meteorologist and Cloud Seeding Coordinator  
Utah Division of Water Resources

President  
Weather Modification Association



The Honorable Mike Beltz  
Chairman  
House Agriculture Committee  
600 East Boulevard Avenue  
Bismarck, ND 58505  
RE: BILL HB 1514

Dear Chairman Beltz,

The intent of this letter is to provide credible information and expert viewpoints from water providers and water managers to persuade you to consider altering the language in proposed HB 1514.

The North American Weather Modification Council is composed of state water agencies from California, Colorado, Idaho, Nevada, North Dakota, Utah, and Wyoming in addition to ten water managers, water providers and hydropower producers — some of which have been cloud seeding since the 1950s. Many of the council member agencies are the cloud seeding regulators for their respective states. The council meets four times each year to exchange information on cloud seeding issues, promote the effective use of these technologies to increase precipitation, suppress damaging hail and mitigate fog; and to advance research and development activities to increase scientific knowledge about cloud seeding capabilities.

Cloud seeding is a scientifically validated method for enhancing water supply, has been thoroughly researched, and is conducted with transparency and strict adherence to environmental regulations. Operations are successfully conducted across 10 western states and one province in the United States and Canada and in dozens of other countries. Our issue is that a legal proscription on cloud seeding in one state, based on faulty data, irrational conclusions and unproven claims, could negatively impact the states that are applying this important resource management tool. For example, cloud seeding is not related to contrails (sometimes mistakenly referred to as “chemtrails”) yet legislation is being pursued to ban cloud seeding because of this misunderstanding.

While we support efforts to regulate air pollution, enforce restrictions on untested geoengineering technologies, and ban substances that pose risks to public health or the environment, cloud seeding does not fall into any of these categories. Therefore, we respectfully ask that you revise your bill to exclude cloud seeding technologies. Instead, we urge you to address the real concerns of your constituents: the potential risks associated with geo-engineering.

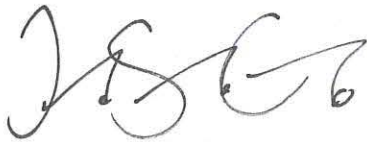
Operational cloud seeding in North Dakota with a focus on hail suppression adds great value to the state’s farmers, ranchers and homeowners who benefit from these technologies. These initiatives enjoy strong support amongst water managers in the west, but the idea of

"chemtrails," which are entirely unrelated to cloud seeding, has started to impede the progress of the cloud seeding, or precipitation enhancement programs.

Decades of research and practical application have consistently demonstrated that modern cloud seeding technologies are safe and effective.

Lastly, we have included an attachment to this letter which includes a brief explanation of the cloud seeding process as well as additional informative resources. Should you have any questions or desire additional information please contact me.

Respectfully,



Jake M. Serago, P.E.  
President  
North American Weather Modification Council  
[www.nawmc.org](http://www.nawmc.org)

Dear Members of the House Agriculture Committee,

I am writing to express my support for HB 1514, which seeks to regulate harmful atmospheric activities such as cloud seeding, weather engineering, and stratospheric aerosol injection. This bill is a crucial step in protecting public health in North Dakota. Activities like cloud seeding and stratospheric aerosol injection involve the release of chemicals and other substances into the atmosphere. These substances can have unintended and potentially harmful effects on public health.

The release of xenobiotics and other pollutants into the atmosphere can pose serious risks to human health. Exposure to these substances has been linked to respiratory issues, cardiovascular problems, and other health conditions. While some may argue that regulating atmospheric activities could hinder economic development, it is important to consider the long-term economic benefits of a healthy population. Protecting public health can reduce healthcare costs and enhance the quality of life for all residents.

HB 1514 is a vital piece of legislation that addresses the pressing issues of public health. By regulating harmful atmospheric activities and ensuring transparency and accountability, this bill will help create a safer and healthier North Dakota. I urge a DO PASS on this bill and ask the committee to take a proactive stance in safeguarding the well-being of our citizens.

Thank you for your consideration.

Sincerely,

Josey Milbradt





*DEDICATED TO PROTECTING, DEVELOPING, AND MANAGING NORTH DAKOTA'S WATER RESOURCES*

PO Box 2254, Bismarck, ND 58502-2254

701-223-4615 • 701-223-4645 (Fax)

**House Agriculture Committee  
Hearing for HB 1514  
Testimony of Mary Massad, President, North Dakota Water Users Association  
February 6, 2025**

Chairman Beltz and members of the House Agriculture Committee, thank you for the opportunity to provide testimony on HB 1514. My name is Mary Massad, and I am president of the North Dakota Water Users Association. The Water Users Association is the state-wide member organization dedicated to protecting, developing, and managing North Dakota's water resources. We have more than 150 members from all across North Dakota who have an active interest in water management in all its forms.

The Water Users has a long-term goal:

*To support the North Dakota Cloud Modification Project and continued funding for weather modification activities and programs, including research and evaluation of atmospheric resources, expand cloud modification activities in the state; and to continue to form the technical base for further scientific progress and economic development.*

North Dakota has a long history of conducting weather modification activities. Today, the state is at the forefront in developing and using this technology. Weather Modification International, based in Fargo, with a plant in Kindred, is the leader in this industry. Additionally, through a unique partnership with the University of North Dakota, students at UND are able to train as pilot interns through the weather modification program.

Cloud seeding in North Dakota increases the efficiency of clouds, maximizes precipitation and decreases the likelihood storms will develop into devastating hailstorms. Studies in North Dakota do show direct benefits for North Dakotans due to weather modification. These studies indicate a 5-10% increase in moisture and a 45% reduction in hail in areas where weather modification activities occur.

Weather modification is a tool of water management available to local political subdivisions on a voluntary basis. HB 1514 seeks to ban this tool through a vote in Bismarck rather than let local citizens make the decision for themselves. This would remove the ability of residents of McKenzie and Bowman Counties, as well as some townships in Slope County, to continue to utilize a program they find effective in managing water for them.

Please maintain local control over this important decision. I respectfully request a 'do not pass' recommendation on HB 1514.

Thank you.



North Dakota  
Weather Modification Association

1605 E. Capital Ave.  
P.O. Box 2599  
Bismarck, ND 58502  
701-223-4232

**Testimony on HB 1514  
House Agriculture Committee  
February 6, 2025**

Good morning, Mr. Chairman and members of the House Agriculture Committee. I am Dani Quissell with the North Dakota Weather Modification Association. I am here in opposition to HB 1514.

HB 1514 would, among other things, ban a longstanding weather modification program in North Dakota. This program dates back to the 1950s. We are fortunate to have a framework in place that gives the people the choice, on a local level, whether or not weather modification activities occur in their area.

Today, just two counties, Bowman and McKenzie, and a few townships in Slope have active weather modification programs. This is a change from just two years ago when we last talked about weather modification. In November, the people in Williams and Mountrail counties voted to discontinue their programs. In my opinion, this demonstrates that our current framework works.

HB 1514 would unilaterally decide for all residents that weather modification shouldn't happen. This is despite the fact that the last time Bowman County put this to a vote, 70% of voters voted to continue the program.

The beauty of our current system is that this program is locally driven. That's the way it should be.

For these reasons, I ask you to give HB 1514 a 'do not pass' recommendation and continue the current practice of allowing locals to decide for themselves whether to have weather modification in their area or not. Thank you for your attention this morning. I'd be happy to stand for any questions.

My name is Roger Neshem. I am writing today to ask that you do pass HB1514. The weather modification program alone in ND does not answer to anyone including county commissions and state officials. They can conduct experiments on us without holding hearings or anything as outlined in state statutes. If any type of weather modification was on a state ballot I know it would lose by a 70-30 vote bare minimum after witnessing the resounding defeats weather modification has sustained at the ballot box since 2020 in Ward, Williams and Mountrail counties. Ward alone voted to end weather modification by a 9-1 margin.

There are new technologies that patents are being applied for that seek to limit warming and block the suns energy. This type of stuff must never occur in this state and this bill will stop that.

I am sure all the weather modification groups will attempt to stop this but the current positions held by most is that there is no scientifically credible evidence weather modification works. They are just trying to protect the funding they have received for over 50 years to continue their "research". Lets end this with the passage of HB1514

Please vote to pass HB1514.

Sincerely,

Roger E. Neshem

Former Weather Authority Board Member

Ward County, ND

TESTIMONY OF

**Darin Langerud, Director, Atmospheric Resources Division**

Chairman Beltz, and members of the House Agriculture Committee, I am Darin Langerud, the Director of the Atmospheric Resources Division of the Department of Water Resources. I'm here today to provide testimony in opposition of HB 1514.

The Atmospheric Resources Division of the Department of Water Resources is vested with regulatory oversight of cloud seeding operations and research in North Dakota. These regulations require licensing of qualified contractors and permitting of operational cloud seeding programs. Detailed record keeping is required of all aircraft and ground-based seeding activities for any operational program in the state.

All airborne seeding operations are conducted by aircraft licensed by the North Dakota Aeronautics Commission and under flight rules promulgated and enforced by the Federal Aviation Administration (FAA). No "unmarked" or "unidentified" aircraft are or have been utilized for permitted cloud seeding in North Dakota. Cloud seeding aircraft are tracked and displayed in real time, with those data available on the Department of Water Resources website during operations. HB 1514 would also potentially restrict the operation of weather radars and air traffic control radars, which are legally operating under Federal Communication Commission (FCC) guidelines.

One of the common concerns raised by the public is the environmental safety of the materials used in cloud seeding. Silver iodide is not soluble in water; thus, it is not freely bioavailable in the environment. Because it is such an effective ice nucleus, silver iodide is used in very small quantities. Based on the average rate of seeding material used in North Dakota each summer, only one one-hundredth of a gram (0.01g) would be expected to be deposited per acre of land in the operations area during the summer project, a nearly undetectable amount, far below any existing safety thresholds. Published scientific literature from both domestic and international programs clearly shows no environmentally harmful effects from cloud seeding with silver iodide aerosols.

HB 1514 would criminalize legally permitted cloud seeding operations in the state and prohibit research and development of this technology. I respectfully request the committee give HB 1514 a "do not pass" recommendation.

Thank you for the opportunity to testify, and I'm happy to answer any questions.

North Dakota Legislative Assembly

600 E Boulevard Ave

Bismarck, ND 58505

Subject: Support for House Bill 1514 – Do Pass Recommendation

Dear Members of the ND Legislative House

I am writing to express my strong support for House Bill 1514, which seeks to ban weather modification in the state of North Dakota. I urge you to give this bill a "Do Pass" recommendation to ensure the responsible stewardship of our natural weather patterns and protect our agricultural and environmental interests.

Weather modification programs, such as cloud seeding, have been used for decades with the intent of altering precipitation patterns. However, concerns persist regarding their long-term effects on weather systems, water distribution, and ecological balance. Farmers, ranchers, and communities across North Dakota have raised valid concerns about the unintended consequences of these programs, including potential reductions in natural rainfall, changes in storm intensity, and disruption to local ecosystems.

North Dakota's economy is deeply rooted in agriculture, making predictable and naturally occurring weather patterns critical to the livelihood of many residents. Banning weather modification would help ensure that our state's precipitation remains naturally distributed without artificial interference. Furthermore, with growing concerns over climate variability and water resource management, now is the time to prioritize transparency and natural atmospheric processes over experimental intervention.

I respectfully request that you and your fellow committee members advance HB 1514 with a "Do Pass" recommendation. Protecting North Dakota's environment,

economy, and the integrity of our natural weather is of utmost importance. Thank you for your time and consideration.

Sincerely,

Kristen Bechtold

1675 42nd St N

Velva, ND 58790

7015093200



February 5, 2025

Representative Mike Beltz, Chairman  
House Agriculture Committee  
PO Box 218  
Hillsboro, ND 58045-0218

Representative Dori Hauck, Vice Chairman  
House Agriculture Committee  
2461 81<sup>st</sup> Avenue SW  
Hebron, ND 58638-9510

**RE: Opposition to House Bill 1514**

Chairman Beltz and Vice Chairman Hauck,

On behalf of CTIA, the trade association for the wireless communications industry, I write to respectfully oppose HB 1514. The legislation as drafted imposes new onerous oversight and reporting requirements as well as potential prohibitions on wireless infrastructure deployments that could severely hamper the wireless industry's ability to provide enhanced wireless service to North Dakota residents while providing no countervailing benefits. Numerous provisions of HB 1514 are also unlawful and conflict with federal law.

First, HB 1514 falsely assumes wireless technology may be "harmful" even when installed and operated in accordance with applicable federal regulations. Wireless infrastructure deployments must comply with structural, engineering and safety regulations as well as radio frequency (RF) emission regulations imposed by the Federal Communications Commission (FCC). The consensus among health experts – including the American Cancer Society, the World Health Organization and the U.S. Food and Drug Administration – is that the weight of scientific evidence shows no known adverse health effects to humans from exposure to wireless antennas or devices at, below, or even in some cases above, the RF limits set by the FCC.

Second, federal law preempts the proposals in this bill to the extent they seek to regulate FCC-certified wireless infrastructure. The bill's proposals include within their scope FCC-certified wireless infrastructure and equipment and directs the "director or sheriff" to regulate any federally approved equipment that they have deemed is "harmful to humans" as unlawful in North Dakota and "take enforcement actions." However, federal law expressly prohibits regulation like this that is based on the alleged environmental or health effects of FCC-certified wireless facilities. As set forth in Section 332(C)(7)(B)(iv) of the federal Communications Act, "No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the [FCC]'s regulations concerning such emissions."<sup>1</sup> Moreover, federal law impliedly preempts the proposals in this bill because any provision that enables state or local

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<sup>1</sup> 47 U.S.C. sec. 332(C)(7)(B)(iv).



government determinations that FCC-certified wireless infrastructure is non-compliant, hazardous and unsafe directly conflicts with the FCC's determination that the FCC-certified wireless infrastructure is both compliant and safe. HB 1514 is also preempted because Section 332(c)(3)(A) provides that "no State or local government shall have any authority to regulate the entry of or the rates charged by any commercial mobile service or any private mobile service..."<sup>2</sup> The restrictions of HB1514 constitute the very "market entry" regulation that the Communications Act preempts.

Finally, provisions in HB 1514 that permit the state director of environmental quality or sheriff to issue a "cease" order or require cessation of operations of wireless infrastructure violates Section 332's separate requirement that a regulation "shall not prohibit or have the effect of prohibiting the provision of personal wireless facilities" (Section 332(c)(7)(B)(i)), as well as Section 253 of the federal Communications Act that includes a prohibition against state and local regulations or requirements that "prohibit or have the effect of prohibiting the ability of any entity to provide any interstate or intrastate telecommunications service."

For these reasons, we oppose HB 1514.

Sincerely,

Jeremy Crandall  
Assistant Vice President  
State Legislative Affairs

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<sup>2</sup> 47 U.S.C. sec. 332(c)(3)(A).



Please pass HB1514. North Dakotans need to be protected from chemicals being sprayed in our skies. We don't know the long-term effects from using these chemicals. But we do know that whatever chemicals are being sprayed, they are going into our lungs, into our eyes, into our food, into our land and into our water. We have seen an increase in asthma/breathing issues, allergies, and overall illnesses. It is reasonable to consider that the chemicals being sprayed may be a factor in these health problems. Patents on weather modifications/sun blockers continue to be approved. One must question what all will be allowed to be sprayed into our skies in the months and years ahead. We have the opportunity to protect all of North Dakota, its citizens, its animals, its air, and its water with the passage of HB1514. I am asking you to do just that. Please vote yes on HB1514.

Thank you,

Mary Dennis

6989 84<sup>th</sup> Ave NW

Stanley, ND 58784

Mountrail County



February 5<sup>th</sup>, 2025

**RE: Testimony to House Agriculture Committee – HB 1514**

Chair Beltz and Members of the Committee,

On behalf of the North Dakota Aeronautics Commission, I am submitting this testimony to express concerns about the potential negative impacts of House Bill No. 1514 on North Dakota's aviation industry.

Our primary concern is the bill's reporting and enforcement provisions, which pose significant practical challenges. Encouraging public monitoring of aviation activity without technical expertise could lead to an influx of unverified claims that could strain law enforcement resources and unnecessarily disrupt lawful aircraft operations. Additionally, requiring aviation activities to halt immediately based on suspicion could result in costly and unwarranted disruptions to essential services.

Many of these public reports would likely stem from misunderstandings of normal contrails, which are water vapor trails produced by aircraft engines under specific atmospheric conditions. The appearance and persistence of contrails vary based on factors such as humidity and temperature; some dissipate quickly, while others linger and spread, forming cirrus-like clouds.

While protecting public health and the environment is important, we find it difficult to justify policies that could disrupt lawful aviation operations without clear scientific evidence or credible documentation of a public health or environmental risk. As currently drafted, House Bill No. 1514 creates unnecessary challenges for legal aviation activities in North Dakota.

We respectfully urge legislators to carefully consider these concerns and work to ensure that the operational needs of the aviation industry are not adversely affected by this legislation.

Respectfully,

Kyle C. Wanner  
Executive Director  
ND Aeronautics Commission

My name is Joel Dennis, and I'm writing to encourage you to pass HB1514 and end all weather modification in North Dakota.

There have not been any studies that show significant benefits of this program, and what concerns me most is that they are putting man-made chemicals into the air that we breathe. We do not know what effect this has on people, plants or animals. I do not want myself, my children, or future grandchildren breathing in chemical-ridden air in this beautiful state of ND.

Weather modification also has not been proven to reduce hail or increase rainfall. In Mountrail county, we requested that they stop the rain enhancement early in the Spring of 2024, and they had to abide since that portion of weather modification was not voted in. What happened with NO rain enhancement? We had one of the best growing seasons in many years. The crops looked amazing, we got a great amount of rain, and little hail.

Nature was created this way for a reason, and we should not be tampering with something as complicated as the weather, which can change unpredictably. As great as it is to look at the forecast from weather services across the nation, how often are they wrong? It's because weather is unpredictable, and we don't fully understand how it works because of how complicated it is. This is the same case with weather modification, they may think they understand it, but what truly is really being affected by this? There may be short term and possible long term negative effects on nature, or people that we aren't aware of. I don't want weather modification to be around long enough to find out what those long term effects are.

For cleaner air, and to let nature handle the weather, please vote in favor of passing this bill and end weather modification in North Dakota!

Sincerely,

Joel Dennis

Mountrail County, ND

Chairman Beltz, members of the House Agriculture Committee,

My name is Jaye Sandstrom. I live in the New Town, ND area. I urge HB 1514 be given a swift **DO NOT PASS**.

Last session, opponents of cloud seeding pitted county against county and township against county and then dragged the State Legislature into their mix to attempt change of the law to satisfy their distains and to get even with people who dared take a different opinion on the matter. Unfortunately, even after they were successful in ending participation of three counties by following the protocols of the law, they are not satisfied and continue settling some sort of grudge and even taking it to higher levels. Now 1514 comes along and there is the effort of attempting to pit citizens against citizens in such a way that snitching on each other is encouraged.

I am hopeful too that each of you, as you read 1514 to its entirety, can see the craziness.

In all honesty, the content of this bill so angers me that I can hardly sit still long enough to put a sentence together. This is every bit ridiculous as some of the craziness of the past several years regarding multi gender/ transgender and cat boxes in schools, men participating in women sports and their showers and rest rooms. Have we nothing better to do than to join in the madness but to come up with a piece of legislation that encourages people to snitch each other like some third world country? Yes page 2, lines 10-12 encourages people to snitch. **“The director and each county sheriff shall encourage the public to monitor, measure, document, and report any incident that may constitute cloud seeding, stratospheric aerosol injection, weather engineering, or any other polluting atmospheric activity.”** Our sheriff departments often are running into budget issues and if they must run around investigating complaints about suspicious looking clouds and smell when ever a jet flies over, things are going to get crazy. In all honesty, a fiscal note should have been worked up on this bill because if passed, it could cost a whole lot of money in those counties where paranoia seems to run deep.

Since I am confident that all members of the committee and House will thoroughly read this bill, I will refrain from itemizing the troubling language because there is not a single sentence that isn't troubling. I am hopeful that all will be able to discern and agree that this bill has no place in our century code because the law that has existed for some 50 years accommodates both points of view whether you are desiring the program or want to end one. There is no need for 1514 for the simple reason that the North Dakota law already exists which orders that anyone who desires to perform such practices must first acquire a permit from the State authority. I highly doubt such a permit would be granted in the first place. Passing more laws is not going to do anything to improve the runaway imagination of those that fear the sight of the contrail of a passing jet overhead.

I am most comfortable in saying that you can rest assured that there is no connection between North Dakota's cloud seeding programs and that of the chemtrail theory. Contrails that often appear behind the jet engines while cruising at high altitudes result from the mix of the conditions of the atmosphere and the exhaust. I understand that there are those that observe contrails may have fallen into the thinking that there are some kind of chemical or aerosol in these trails, hence the slang, chemtrails, and it just is not so. Cloud seeding does not take place at those kinds of altitudes so if there were to be such practices applied, I am also comfortable in stating that it has nothing to do with the North Dakota program. If the issue of an alleged coup to take over the world

using high altitude aerosol injections to make a cloud is of such great importance, then I would suggest that the issue is way beyond the state power and whoever might be responsible is not going to give a hoot about a line in the NDCC.

As much as I enjoy YouTube documentaries, I'd say the accusations implied by 1514 are YouTube fodder for the imagination and I would hope you will help keep it there.

Please, without hesitation, **DO NOT PASS HB 1514.**

Thank you for this consideration.

Dear members of the House Agriculture Committee:

My name is Amy Dennis and I am from Stanley, North Dakota.  
I am writing to urge you to give HB1514 a 'DO PASS' recommendation.

Our county (Mountrail) recently voted to end warm convective weather modification practices by 66% during the November 2024 election. During the entire petition process, countless people asked if this included the 'chemtrails' and other weather modification practices. They hoped signing the petition would end those as well. Many people had no idea warm convective weather modification was even being done in our state and were very disappointed and upset that our petition couldn't include those other geoengineering practices as well. We reassured them their concerns would be brought to Bismarck during the Legislative Assembly and understood by our elected officials.

We are constantly being told our climate is changing and at the same time, humans are directly trying to change the climate. This has been going on for years. Geoengineering plays a destructive role in negatively affecting our delicate ecosystems, our climate and is causing some of the worst natural disasters we see today. I've even spoken with a local practitioner who can even find evidence of chemtrail residue in the body. We and our planet are worth much more than the risk people are willing to make to try to manipulate its weather.

Tennessee made weather modification practices illegal in their state. 11 others are working at doing the same. I urge you to give HB1514 a 'DO PASS' to protect North Dakota's rich environment, the beautiful people who live here and the generations to come.

Thank you for your time,  
Amy Dennis  
Stanley, North Dakota

Chairman Beltz and members of the Ag Committee thank you for allowing me to provide testimony on HB 1514.

My name is Jon Wert and I farm with my family in the New England, ND area.

We farm in the three counties of Hettinger, Slope and Stark. Our counties voted to stop weather modification decades ago but unfortunately the voice of the people doesn't matter as the counties of Bowman and a small portion of Slope still perform weather modification. That area is directly upwind of our farming operation. The weather modification website and studies show there is a downwind effect of up to 90 miles. Therefore, we are still dealing with the ramifications our citizens voted to abolish. This harmful practice in North Dakota needs to stop. I urge a do pass on HB1514

Sincerely,

Jon Wert

Dear committee members,

I am here asking for a do pass on HB1514. A similar bill to this was barely defeated in the last session in the senate after coming out of both committees with do passes and passing the house fairly easily.

I believe that we should leave weather be, and if farmers want protection from hail, that is what hail insurance is for.

North Dakota is one of the last places to participate in this, and I believe it leads to a lack of rainfall. Let Mother Nature do what Mother Nature is going to do.

There are people a lot more intelligent on the topic that will be testifying in front of you. I ask you to listen to them and ask for a do pass on HB1514.

Thanks,

Wyatt Thompson



Do Pass.

I stand before you today not just as a concerned citizen, but as someone who remembers what the night sky used to look like—deep, vast, and filled with stars. I remember looking up and feeling connected to something greater, something timeless. But today, that connection is fading under a sky clouded with artificial haze. Our stars, once a guiding light for generations, are now being obscured by something unnatural—weather modification programs and chemical trails polluting our air.

For too long, our skies have been tampered with under the guise of climate control, geoengineering, and other so-called scientific advancements. We see the planes leaving trails that linger, spreading across the sky, forming an artificial overcast where there should be clear blue. We have documented it. We filmed it. We have lived under it.

These are not harmless contrails that dissipate within minutes. These trails expand, persist, and create a hazy layer that blocks our view of the stars, dims the sunlight, and affects our weather patterns. But the consequences go beyond aesthetics. The chemicals being released into our atmosphere include:

- ◆ **Aluminum Oxide ( $\text{Al}_2\text{O}_3$ )** – A known neurotoxin linked to cognitive issues, soil contamination, and respiratory problems. Aluminum particles in the air can accumulate in the brain and have been associated with neurological diseases.
- ◆ **Barium ( $\text{BaSO}_4$ ,  $\text{BaCO}_3$ ,  $\text{BaCl}_2$ )** – Used in industrial applications and medical procedures, but when inhaled in aerosol form, it can disrupt the cardiovascular and immune systems, leading to breathing difficulties and increased blood pressure.
- ◆ **Strontium ( $\text{SrCO}_3$ ,  $\text{Sr}(\text{NO}_3)_2$ )** – A heavy metal that can accumulate in bones, replacing calcium and potentially leading to bone density issues and other long-term health effects.
- ◆ **Sulfur Dioxide ( $\text{SO}_2$ )** – Often linked to weather modification efforts, this compound contributes to acid rain, respiratory issues, and environmental degradation.

These chemicals are being sprayed over our communities without our consent. They settle into our soil, our water, and our air. Independent tests have detected rising levels of aluminum and other metals in rainwater samples, yet officials dismiss the concerns of those who demand accountability.

We did not agree to this. We were not consulted. And yet, we are forced to live under this manufactured sky.

But let me be clear: We *do* have a say. And we *must* speak up.

We have already made progress by standing together. Our petition to stop weather modification in our county is a testament to that. But this fight is not over. We need more people to see what's happening, to look up, to question, and to demand transparency from those making decisions behind closed doors.

We need to push for accountability—through legal action, through awareness campaigns, through direct engagement with legislators. We need independent testing of our air, our water, and our soil.

We need the Federal Aviation Administration and environmental agencies to answer for what's being released over our homes.

We are not just fighting for ourselves. We are fighting for our children, for future generations who deserve to inherit a world where they, too, can look up at the night sky and see the stars in all their brilliance.

This is not a hopeless fight. Change begins with awareness, and awareness begins with us.

So I ask each of you: Do not be silent. Share what you know. Educate your neighbors. Film the skies. Demand answers. And most importantly, never stop looking up.

Thank you.

Sharlet Mohr

Good morning to the Chairman, members of the Agriculture committee

I thank you for giving me an opportunity to speak today

I am Jamie Kouba from Regent

I am curious in here who knew that we were seeding clouds in our state before now?

Kinda crazy isn't it

For those of you that didn't the state has been cost sharing cloud seeding in here since 1976. At one point 38 of the counties participated in this and thankfully to the hard work and dedication of private citizens donating their precious time and money, mostly farmers we are down to only 2 counties and a handful of townships that are somehow operating in a county that voted it out.

There are many hazards to this

First being that the same chemicals that they tell you increases rainfall and reduces hail is the same chemicals they use to eliminate fog on airport runways and also can guarantee no rain on your wedding day or special event

Did you also know it's used for warfare? To totally decimate areas with drought by overseeding.

Kinda strange when you watch our drought monitor maps and see the people that have absolutely no control down wind of cloud seeding suffer the worst

Isn't that strange?

Its because they can help it fall where they choose to make it fall. Effectively picking winners and losers.

Secondly it's a club, but you and I are not a part of it.

There is no control over them, the same people that run the show are the ones that issue the

permits to operate

They are defiant towards the county commissioners where they operate, a great example is in 2017 the commissioners of Ward County asked them to suspend flights in severe drought only to continue operating as normal.

Even though our state has the longest running cloud seeding operation in the world it still operates as the North Dakota Cloud Modification "Project" , it is called a project because it is an experiment that has never been proven even after operating with state funding for over 50 years (far longer prior) and voids them of any liability

Zero liability, there is not one single law in the state that protects any persons injured wheather its a public nuisance, a violation of property rights by manipulation of your rainfall or health and wellbeing by these ongoing experiments.

In fact last year, Darin Langerud with the NDCMP signed a pact for training, research and development with the South Korean government. Argentine and Romanian delegations also have visited North Dakota in the last two years to go through the training program effectively making the people of western North Dakota nothing more than a bunch of lab rats

I do not know if an environmental impact study has ever been done but to this day one has never been filed

Third is they make claims of great economic benefits based on one hand picked guesstimated hopeful study. If it was a tenth as good as the claims there would be more than two of the 38 counties that once seeded in this state effectively making it nothing more than propaganda. Not to mention the numbers that are talked about today likely include many counties that have overwhelmingly rejected these operations and no longer involved.

Fourth is our health, some say it's bad, some here today will say the messuments are just fine but we all know it can't possibly be doing us any level of good

And we may never know the real reason why North Dakota has well above the average Cancer rates across the United States, it's hard to not wonder why some of the counties that recently left the program and many within the downwind effects of cloud seeding (90–120 miles) have the highest rates of cancer of all categories in the state according to [statecancerprofiles.gov](https://statecancerprofiles.gov) from 2017–2021 it seems to have a common denominator

Fifth, and I hate to be disparaging, but there are some that desperately want to use cloud seeding aka geoengineering across the entire world, not just our state, not just the US but the entire world in the name of climate change, some of these people are here today. They don't

care about your health, your livelihood, they care about their pockets lined with our tax dollars whether state or federal in the name of science they call it

Its due time we stop playing God with our weather and we take man, his doctrines, and our tax dollars out of it. And get rid of cloud seeding and keep geoengineering out of this wonderful state for good. Man does not belong meddling in our weather.

I strongly support passing this bill

I wanna say, the only dumb question is the one you don't ask, so please feel free to ask questions, I'm here for clarity

I thank you for your time representatives

Jamie Kouba



**Regent ND**

**Swfarmservice@gmail.com**

**701-209-0155**

Lanny Kenner  
District 7

Good morning chairman Beltz and committee members.

My name is Lanny Kenner and I am urging yes votes on House Bill 1514.

Geoengineering and weather modification has been done in many parts of the United States and other countries for quite some time. We are now finding out that many of the particles in our atmosphere are detrimental to human and animal health.

If we don't create a statewide ban and allow certain counties to do geoengineering and weather modification there is no way to keep these atmospheric particles just in those counties. For that reason I am urging you to pass House Bill 1514 for the safety and health of the great people of North Dakota.

Thank you for your consideration.



Testimony in Opposition to  
**House Bill No. 1514**  
 House Agriculture Committee  
 February 06, 2025

## TESTIMONY OF

**David Glatt, Director of the North Dakota Department of Environmental Quality**

Good morning Chairman Beltz and members of the House Agriculture Committee. My name is David Glatt, and I am the Director of the North Dakota Department of Environmental Quality (DEQ). The DEQ is responsible for the implementation and enforcement of many of the federal and state environmental protection programs in North Dakota. I am here to testify in opposition to House Bill 1514.

HB 1514 seeks to provide an additional layer of oversight on atmospheric emissions. However, in its current form, this bill is very broad and would require significant changes to allow for enforcement. The bill attempts to address many activities that are normally not regulated by federal or state environmental agencies and North Dakota does not typically enforce additional environmental regulations beyond federal law. For instance, no limits exist in the Clean Air Act for compounds identified in this bill.

Some concerns we have include:

**Page 1, Line 20:** *"A person may not engage in a polluting atmospheric activity ... that is harmful to a human or the environment, including the production of excessive electromagnetic radiation".* Electromagnetic radiation includes radio waves, microwaves, infrared light, visible light, ultraviolet light, x-rays and gamma rays. Each of these has different frequencies and wavelengths and there is often no consensus on what would constitute a harmful level. Also, electromagnetic radiation can only be measured while it is being emitted. These measurements would need to be taken by specially trained individuals with specific instrumentation for each frequency and wavelength. The DEQ has no equipment or expertise to measure the majority of these activities.

**Page 1, Line 17:** Because "Xenobiotic" is defined as a *"foreign substance to the human body or ecological system"* and "atmospheric experimentation" is not defined, does the language in this chapter, including: *"If the director or sheriff receives information alleging ... other atmospheric experimentation involving the release of a xenobiotic agent..."* limit the use of airspace for any activity since the combustion of aviation fuel releases fine particulates that could potentially be inhaled? Would normal exhaust and contrails violate these requirements? Would agricultural spraying and mosquito control violate these requirements? Would fireworks?

**Page 2, Line 23:** A twenty-four-hour in-writing documented evidence collection and report would be unrealistic. Similar timeframes for multiple reports are identified throughout this bill. We do not have enough staffing, and travel distance would also hinder response times.

**Page 3, Line 3:** *"The director or sheriff shall take the following emergency measurements at the reported location where a suspected violation of this chapter occurred within two hours of receiving the report: ... b. Excessive mechanical vibration, noise, or other physical agent."*

Because the bill refers to reports on an aircraft or facility, would this require the DEQ to quickly investigate noise complaints surrounding airports? There are currently no state laws addressing noise pollution. And if there were, what would be an appropriate penalty? Also, what "biology guidelines" are referenced here?

**Page 3, Line 7 and Page 4, Line 20:** These areas refer to ionizing radiation and North Dakota already has established ionizing radiation regulations in effect (see N.D.C.C. 23.1-02, 23.01-03, and 33.1-10).

**Page 3, Lines 9-12:** These lines refer to the possibility of partnering with an institution of higher education to investigate. This partnering process could be time-consuming and costly.

**Page 3, Line 18:** This language prohibits a "*facility*" involved in "*atmospheric activity that is harmful to a human or other environment*". This could implicate power plants, refineries, and other facilities that produce air emissions, which are already regulated by the DEQ. HB 1514 could be interpreted as prohibiting any emissions from these facilities.

**Page 3, Line 26:** A study of this nature would be costly and take state resources the DEQ does not have at this time.

**Page 4, Lines 15-23:** Where did these thresholds come from? Where is the scientific data backing up these numbers?

The use of the terms "excessive" and "harmful" in the bill are subjective. Who decides what amounts or levels are excessive or harmful?

These are only a few of the many important questions raised by the language of this bill. Again, without significant review and revision, the DEQ asks for a "do not pass" on HB 1514.



# GLOBAL CLIMATE MODIFICATION PROGRAMS ARE THREATENING ALL LIFE ON EARTH

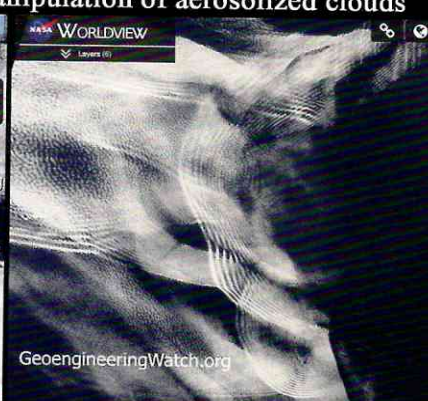
***BEFORE:*** SKIES UNTAINTED BY CLIMATE ENGINEERING



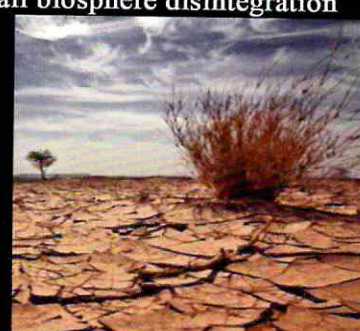
***AFTER:*** SKIES CONTAMINATED BY SOLAR RADIATION MANAGEMENT



NASA satellite images clearly reveal microwave transmission manipulation of aerosolized clouds



Climate engineering is further fueling record drought, deluge and overall biosphere disintegration



**GeoEngineeringWatch.org**



# ILLEGAL CLIMATE ENGINEERING OPERATIONS ARE BEING CARRIED OUT WITHOUT PUBLIC KNOWLEDGE OR CONSENT

Precipitation tests from around the world confirm alarming levels of aluminum, barium, strontium, (and other heavy metals named in climate engineering patents) are saturating our breathable air column. Human blood, urine, and hair tests confirm the extreme buildup of these highly toxic heavy metals in populations.

Government officials and Geoengineers have long since proposed spraying 10-20 MILLION TONS of highly toxic heavy metal and chemical aerosols into the atmosphere annually as a form of climate change mitigation. Though the blatantly obvious ongoing sun blocking "solar radiation management" programs are officially denied, all available data confirms full deployment of global geoengineering occurred decades ago with increasingly catastrophic consequences.



Color spectrums captured behind particulate dispersing aircraft makes clear the fact that we are not seeing "condensation trails".

All military tanker jets and all commercial jets use "high bypass turbofan jet engines", a jet powered fan that is nearly incapable of producing any condensation trails except under rare and extreme circumstances.



Military tanker jets are not the only aircraft involved with climate engineering operations. Countless commercial jet aircraft have now been retrofitted with spray nozzles aimed into the exhaust stream (though commercial carrier personnel do not appear to be directly involved with the geoengineering operations).



If you think there are only passengers in all commercial jet aircraft, think again. Commercial carrier personnel are not directly involved.

## What are the known consequences of ongoing climate engineering operations?

### GEOENGINEERING IS:

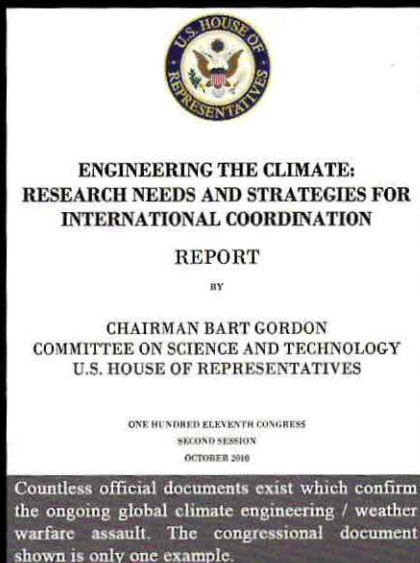
- **Further fueling the overall warming of our planet:**  
SRM aerosol cloud canopies trap more heat than is deflected by SRM programs.
- **Contributing to extreme drought, flooding, and storms:**  
Global geoengineering has completely disrupted the planetary hydrological cycle and thus weather systems all around the world.
- **Creating engineered cool-down zones and snow storms:**  
Patented processes of "chemical ice nucleation for weather modification" are creating severe weather whiplash scenarios.
- **Destroying the Earth's vital ozone layer:**  
Geoengineering particulates and associated microwave transmission atmospheric manipulation are decimating the ozone layer. This is allowing extremely dangerous levels of UVB and UVC radiation to reach Earth's surface.
- **Accelerating Forest devastation, die-off, and forest fire increases:**  
Completely disrupted rain cycles, extreme UV radiation, toxic heavy metal fallout saturation of soils, more dry lighting, and incendiary dusts (from fallout) coating foliage, all are the result of geoengineering.
- **Alarming honeybee die-off:**  
Peer reviewed science studies have now proven that massive aluminum contamination is killing bees. Again, the primary climate engineering element named in patents is aluminum.
- **Radically accelerating human degenerative and neurological diseases:**  
Alzheimer's, dementia, autism, ALS, COPD, asthma, allergies, bronchitis, lung cancer, heart attack (and countless other forms of disease) are directly associated with toxic atmospheric particulate pollution, exactly what climate engineering / solar radiation management programs create.
- **Contributing to unprecedented species die-offs:**  
We are now in the 6th great mass extinction on our planet with up to 300 species of plant, animal, and insect extinctions every single day. This is 15,000 times the background extinction rates.

HISTORICAL DOCUMENTS AND DATA PROVES THAT GLOBAL CLIMATE ENGINEERING PROGRAMS WERE FULLY DEPLOYED IMMEDIATELY AFTER WWII AND HAVE BEEN STEADILY RAMPED UP SINCE. NOT A SINGLE ENVIRONMENTAL OR HUMAN HEALTH IMPACT STUDY HAS EVER BEEN DONE TO DOCUMENT THE DEVASTATION BEING INFLICTED ON THE ENTIRE WEB OF LIFE FROM THE ONGOING ILLEGAL GEOENGINEERING ASSAULT.

Populations (and all life forms) around the world have been completely betrayed by the governments, agencies, and experts they have been trained to believe existed to protect them. The corporate media is also a primary accomplice in the ongoing climate engineering cover-up. Any and all entities / individuals that are in any way associated with the illegal geoengineering operations must be fully exposed. Once exposed, all such entities / individuals must be held legally and morally accountable for their part in the climate engineering atrocities.



Massive plumes of climate engineering particulates are being dispersed by jet aircraft all over the globe, this is not condensation.



Countless official documents exist which confirm the ongoing global climate engineering / weather warfare assault. The congressional document shown is only one example.



Investigate inarguable climate engineering facts and film footage at

## GeoEngineeringWatch.org

Please, help us to expose and halt the ongoing climate engineering insanity.



























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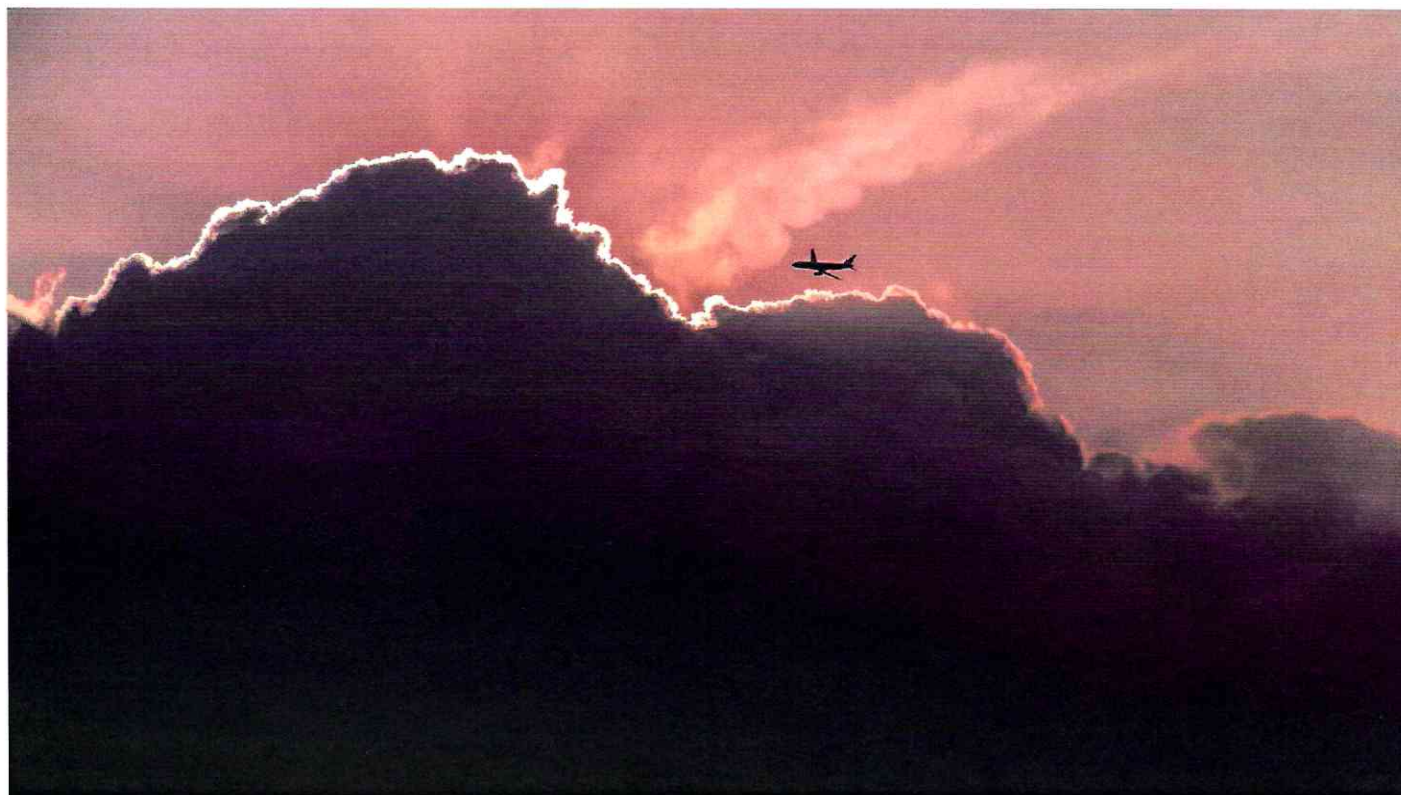
CLIMATE CHANGE AND ENERGY

## The US government has approved funds for geoengineering research

NOAA will get at least \$4 million for a research program, which will include efforts to assess "climate interventions."

By James Temple

December 20, 2019



A plane flies near clouds.

CRISTIAN BARON ON UNSPLASH

planet.

The \$1.4 trillion spending bills that Congress passed this week included a little-noticed provision setting aside at least \$4 million for the National Oceanic and Atmospheric Administration to conduct stratospheric monitoring and research efforts. The program includes assessments of “solar climate interventions,” including “proposals to inject material [into the stratosphere] to affect climate.”

Advertisement

President Donald Trump is expected to sign the sweeping appropriations bills today.

In a related move, Congressman Jerry McNerney of California introduced a bill yesterday that would enable NOAA to set up a formal program to carry out this climate intervention research.

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### Related story

The full text of the bill isn't yet available, and McNerney's office didn't immediately respond to inquiries from MIT Technology Review. But the primary aims would include improving our basic understanding of stratospheric chemistry, and assessing the potential effects and risks of geoengineering.

The legislation would also grant NOAA oversight authority to review and report on experiments proposed by other research groups, says Kelly Wanser, an advisor on geoengineering research efforts and executive director at SilverLining, who consulted with McNerney's office on details in the bill.

A growing number of academic research groups are exploring various ways to cool the planet as the threat of climate change grows, including injecting reflective particles into the stratosphere or spraying salt water into the sky to brighten coastal clouds.

In a statement, McNerney asserted that the federal government should take the lead in this controversial field, noting that other research efforts are already moving forward.

A team of Harvard researchers has been preparing to conduct one of the first outdoor experiments related to geoengineering, by launching a balloon that would spray a small quantity of particles into the stratosphere. At least in part because there isn't a US-government-funded research program in place, Harvard took the unusual step of creating its own external advisory committee to ensure that the researchers work to limit environmental risks, seek outside input, and operate in a transparent way.

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McNerney previously introduced legislation directing the National Academy of Sciences to propose a geoengineering research agenda and oversight guidelines. It, in turn, established a committee that's set to release its recommendations next year.

Since emissions cuts alone likely can't prevent dangerous levels of climate change, public funding for geoengineering research is "overdue," Jesse Reynolds, an environmental law and policy fellow at the University of California, Los Angeles, said in an email.

"We need to know more about solar geoengineering's capabilities, limitations, and risks so that future decisions will be informed ones," he added. **T**

**by James Temple**

# 2025 HOUSE STANDING COMMITTEE MINUTES

**Agriculture Committee**  
Room JW327C, State Capitol

HB 1514  
2/14/2025

A BILL for an Act to create and enact a new chapter to title 23.1 of the North Dakota Century Code, relating to harmful atmospheric activity; and to provide a penalty.

8:31 a.m. Chairman Beltz opened the meeting.

Members Present: Chairman Beltz, Vice Chairman Hauck, Representatives Anderson, Henderson, Holle, Kiefert, Nehring, Olson, Rios, Schreiber-Beck, Tveit, Vollmer

Members Absent: Representatives Dobervich and Hoverson

## **Discussion Topics:**

- Grandfather clause
- Add study language

8:33 a.m. Representative Tveit moved to adopt as a study.

8:34 a.m. Representative Nehring seconded the motion.

8:36 a.m. Representative Tveit withdrew his motion.

8:37 a.m. Chairman Beltz closed the meeting.

*Diane Lillis, Committee Clerk*



# 2025 HOUSE STANDING COMMITTEE MINUTES

## Agriculture Committee Room JW327C, State Capitol

HB 1514  
2/20/2025

A BILL for an Act to create and enact a new chapter to title 23.1 of the North Dakota Century Code, relating to harmful atmospheric activity; and to provide a penalty.

9:19 a.m. Chairman Beltz opened the meeting.

Members Present: Chairman Beltz, Vice Chairman Hauck, Representatives Anderson, Dobervich, Henderson, Holle, Hoverson, Kiefert, Nehring, Olson, Rios, Schreiber-Beck, Tveit, Vollmer

### Discussion Topics:

- Ground applications
- Wireless communications
- Cloud seeding

9:21 a.m. Representative Tveit moved Adopt Amendment #25.01002.02001, #38202.

9:21 a.m. Representative Holle seconded the motion.

Voice vote.

Motion passed.

9:30 a.m. Representative Tveit moved Do Not Pass as amended.

9:30 a.m. Representative Vollmer seconded the motion.

Representatives	Vote
Representative Mike Beltz	Y
Representative Dori Hauck	N
Representative Karen A. Anderson	AB
Representative Gretchen Dobervich	Y
Representative Donna Henderson	N
Representative Dawson Holle	Y
Representative Jeff Hoverson	N
Representative Dwight Kiefert	Y
Representative Dennis Nehring	N
Representative SuAnn Olson	N
Representative Nico Rios	N
Representative Cynthia Schreiber-Beck	Y
Representative Bill Tveit	Y

Representative Daniel R. Vollmer	Y
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Motion passed 7-6-1.

9:34 a.m. Representative Dobervich will carry the bill.

9:34 a.m. Chairman Beltz closed the meeting.

*Diane Lillis, Committee Clerk*

## PROPOSED AMENDMENTS TO

### HOUSE BILL NO. 1514

Introduced by

Representatives Morton, Frelich, Heilman, Kasper, S. Olson, Rohr, Steiner, VanWinkle, Wolff  
Senators Magrum, Powers

- 1 A BILL for an Act to create and enact a new chapter to title 23.1 of the North Dakota Century  
2 Code, relating to harmful atmospheric activity; and to provide a penalty.

3 **BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:**

- 4 **SECTION 1.** A new chapter to title 23.1 of the North Dakota Century Code is created and  
5 enacted as follows:

6 **Definitions.**

7 As used in this chapter:

- 8 1. "Aircraft" means any contrivance invented, used, or designed for navigation or flight in  
9 the air. The term includes a drone.  
10 2. "Cloud seeding" means a type of weather modification that attempts to change the  
11 amount or type of precipitation by dispersing chemicals into the air by means of an  
12 aircraft or a ground generator, including silver iodide, potassium iodide, or dry ice.  
13 3. "Director" means the director of the department of environmental quality.  
14 4. "Stratospheric aerosol injection" means a method of solar radiation modification which  
15 introduces aerosols into the atmosphere to reduce sunlight.  
16 5. "Weather engineering" means altering or manipulating the weather.  
17 6. "Xenobiotic" means a foreign substance to the human body or to an ecological  
18 system.

1 **Polluting atmospheric activity - Penalty.**

- 2 1. A person may not engage in a polluting atmospheric activity or use an unmarked or  
3 unidentified aircraft, vehicle, or facility for weather engineering, cloud seeding,  
4 stratospheric aerosol injection, or other atmospheric activity that is harmful to a human  
5 or the environment, including the production of excessive electromagnetic radiation.  
6 2. Any person that violates this section is guilty of a class C felony and subject to a fine  
7 of not more than five hundred thousand dollars.

8 **Exemption.**

9 This chapter does not apply to an individual who operates an aircraft for aerial application of  
10 agricultural chemicals or materials.

11 **Reporting and investigative requirements.**

- 12 1. Any individual may report an aircraft, facility, or other delivery system used for weather  
13 engineering, cloud seeding, stratospheric aerosol injection, or any atmospheric  
14 experimentation involving the release of polluting emissions to the sheriff in the county  
15 in which the activity was observed or suspected. If the sheriff finds the evidence  
16 reported to be credible, the sheriff shall investigate the reported activity and may  
17 report any prohibited activity to the county state's attorney for prosecution.  
18 2. The director and each county sheriff shall encourage the public to monitor, measure,  
19 document, and report any incident that may constitute cloud seeding, stratospheric  
20 aerosol injection, weather engineering, or any other polluting atmospheric activity. An  
21 individual with evidence of a polluting atmospheric activity may report the activity to  
22 the director or the sheriff by submitting:  
23 a. A photograph that includes the date, time, and location the photograph was  
24 taken;  
25 b. An independent precipitation analysis report, audiography, microscopy,  
26 spectrometry, metering, or any other form of evidence; or  
27 c. A video recording of activity involving the release of polluting atmospheric  
28 emissions.  
29 3. If the director suspects prohibited activity has occurred based on the evidence  
30 provided, the director shall report all documentary and supportive evidence to the  
31 sheriff in writing within twenty-four hours.



- 1           a. The director shall provide technical assistance and analysis of pollutants as  
2           needed.
- 3           b. The sheriff may request assistance from the bureau of criminal investigation to  
4           investigate any prohibited activity the sheriff suspects occurred or is occurring.
- 5       4. If a report is made to the director or a sheriff alleging polluting atmospheric emissions,  
6       the director or sheriff shall investigate the source and content of the emissions. If the  
7       emissions are harmful to humans or the environment, as demonstrated by a primary  
8       scientific source, the sheriff shall take enforcement actions in accordance with this  
9       chapter.
- 10      5. The director or sheriff shall take the following emergency measurements at the  
11      reported location where a suspected violation of this chapter occurred within two hours  
12      of receiving the report:
  - 13      a. Excessive electromagnetic radiation or fields, including microwave or maser,  
14      infrared light or laser, or ionizing or non-ionizing radiation; or
  - 15      b. Excessive mechanical vibration, noise, or other physical agent.
- 16      6. If professional metering or monitoring equipment is needed but not available to the  
17      state or county, the director or sheriff shall partner with an institution of higher  
18      education to investigate and provide evidentiary findings that would qualify as scientific  
19      expert testimony.

20      **Enforcement actions.**

- 21      1. If the director or sheriff has reason to believe an individual is violating, has violated, or  
22      is attempting to violate this chapter, the director or sheriff shall issue and serve an  
23      order to cease the activity.
- 24      2. The governor may request the adjutant general to identify and notify the owner or  
25      operator of any aircraft or facility releasing aerosol emissions, electromagnetic  
26      radiation, or other pollutants into the atmosphere to cease the activity. The adjutant  
27      general shall order the operator of an aircraft releasing aerosol emissions,  
28      electromagnetic radiation, or other pollutants into the atmosphere to land at the  
29      nearest airport to be investigated for violating this chapter. The governor may request  
30      the bureau of criminal investigation to investigate any activity that may violate this  
31      chapter.

- 1        3. The governor may request the department of environmental quality for an  
2        environmental study to investigate a violation of this chapter.

3        **Xenobiotic agents and radiation - Enforcement.**

4        If the director or sheriff receives information alleging weather engineering or other  
5        atmospheric experimentation involving the release of a xenobiotic agent or the production of  
6        harmful levels of electromagnetic radiation, the director or sheriff shall:

- 7        1. Immediately require the owner or operator of the facility, aircraft, or other vehicle  
8        releasing the xenobiotic agent or producing electromagnetic radiation to produce a  
9        record of any site where a xenobiotic agent or radiation has been detected and convey  
10       the records to the director or sheriff.  
11       2. Immediately order the owner or operator to cease operations of the facility, aircraft, or  
12       other vehicle; and  
13       3. Verify within twenty-four hours that the owner or operator has stopped all operations  
14       relating to the release of xenobiotic agents or the production of electromagnetic  
15       radiation.

16       **Electromagnetic disturbances - Enforcement.**

- 17       1. The director or sheriff immediately shall require the owner or operator of each tower,  
18       antenna, or other facility or infrastructure to produce a record of any operation where  
19       excessive xenobiotic electromagnetism and fields, mechanical vibrations, or other  
20       physical agents, are or have been detected, specifically:  
21       a. Radio frequency or microwave radiation at any reported publicly accessible  
22       location in excess of negative eighty-five decibel-milliwatts;  
23       b. Extreme-low-frequency alternating current electric fields in excess of one volt per  
24       eighty-two feet [25 meters];  
25       c. Magnetic fields in excess of one milligauss;  
26       d. Ionizing radiation in excess of 0.02 millisievert per hour;  
27       e. Laser or other light with harmful effects; and  
28       f. Any vibration, noise, laser, sonic weapon, or other physical agent exceeding  
29       building or biology guidelines.  
30       2. The owner or operator shall convey the records to the director or sheriff within twenty-  
31       four hours.

- 1        3. The director or sheriff shall:
- 2            a. Immediately order a cessation of operations of all antennas and other
- 3            deployments of energy or vibration emitted from the structure or facility.
- 4            b. Verify within twenty-four hours that the owner or operator has ceased all
- 5            operations of antennas and other deployments of energy or vibration; and
- 6            c. Refer suspected criminal activity to the county state's attorney for prosecution.

**REPORT OF STANDING COMMITTEE  
HB 1514**

**Agriculture Committee (Rep. Beltz, Chairman)** recommends **AMENDMENTS** ([25.1002.02001](#)) and when so amended, recommends **DO NOT PASS** (7 YEAS, 6 NAYS, 1 ABSENT OR EXCUSED AND NOT VOTING). HB 1514 was placed on the Sixth order on the calendar.



25.1002.02001  
Title.

Prepared by the Legislative Council  
staff for Representative Hauck  
February 19, 2025

Sixty-ninth  
Legislative Assembly  
of North Dakota

## PROPOSED AMENDMENTS TO

### HOUSE BILL NO. 1514

Introduced by

Representatives Morton, Frelich, Heilman, Kasper, S. Olson, Rohr, Steiner, VanWinkle, Wolff  
Senators Magrum, Powers

- 1 A BILL for an Act to create and enact a new chapter to title 23.1 of the North Dakota Century  
2 Code, relating to harmful atmospheric activity; and to provide a penalty.

3 **BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:**

- 4 **SECTION 1.** A new chapter to title 23.1 of the North Dakota Century Code is created and  
5 enacted as follows:

6 **Definitions.**

7 As used in this chapter:

- 8 1. "Aircraft" means any contrivance invented, used, or designed for navigation or flight in  
9 the air. The term includes a drone.  
10 2. "Cloud seeding" means a type of weather modification that attempts to change the  
11 amount or type of precipitation by dispersing chemicals into the air by means of an  
12 aircraft or a ground generator, including silver iodide, potassium iodide, or dry ice.  
13 3. "Director" means the director of the department of environmental quality.  
14 4. "Stratospheric aerosol injection" means a method of solar radiation modification which  
15 introduces aerosols into the atmosphere to reduce sunlight.  
16 5. "Weather engineering" means altering or manipulating the weather.  
17 6. "Xenobiotic" means a foreign substance to the human body or to an ecological  
18 system.

**Polluting atmospheric activity - Penalty.**

1. A person may not engage in a polluting atmospheric activity or use an unmarked or unidentified aircraft, vehicle, or facility for weather engineering, cloud seeding, stratospheric aerosol injection, or other atmospheric activity that is harmful to a human or the environment, including the production of excessive electromagnetic radiation.
2. Any person that violates this section is guilty of a class C felony and subject to a fine of not more than five hundred thousand dollars.

**Exemption.**

This chapter does not apply to an individual who operates an aircraft for aerial application of agricultural chemicals or materials.

**Reporting and investigative requirements.**

1. Any individual may report an aircraft, facility, or other delivery system used for weather engineering, cloud seeding, stratospheric aerosol injection, or any atmospheric experimentation involving the release of polluting emissions to the sheriff in the county in which the activity was observed or suspected. If the sheriff finds the evidence reported to be credible, the sheriff shall investigate the reported activity and may report any prohibited activity to the county state's attorney for prosecution.
2. The director and each county sheriff shall encourage the public to monitor, measure, document, and report any incident that may constitute cloud seeding, stratospheric aerosol injection, weather engineering, or any other polluting atmospheric activity. An individual with evidence of a polluting atmospheric activity may report the activity to the director or the sheriff by submitting:
  - a. A photograph that includes the date, time, and location the photograph was taken;
  - b. An independent precipitation analysis report, audiography, microscopy, spectrometry, metering, or any other form of evidence; or
  - c. A video recording of activity involving the release of polluting atmospheric emissions.
3. If the director suspects prohibited activity has occurred based on the evidence provided, the director shall report all documentary and supportive evidence to the sheriff in writing within twenty-four hours.

- 1           a. The director shall provide technical assistance and analysis of pollutants as  
2           needed.
- 3           b. The sheriff may request assistance from the bureau of criminal investigation to  
4           investigate any prohibited activity the sheriff suspects occurred or is occurring.
- 5       4. If a report is made to the director or a sheriff alleging polluting atmospheric emissions,  
6       the director or sheriff shall investigate the source and content of the emissions. If the  
7       emissions are harmful to humans or the environment, as demonstrated by a primary  
8       scientific source, the sheriff shall take enforcement actions in accordance with this  
9       chapter.
- 10      5. The director or sheriff shall take the following emergency measurements at the  
11      reported location where a suspected violation of this chapter occurred within two hours  
12      of receiving the report:
- 13           a. Excessive electromagnetic radiation or fields, including microwave or maser,  
14           infrared light or laser, or ionizing or non-ionizing radiation; or
- 15           b. Excessive mechanical vibration, noise, or other physical agent.
- 16      6. If professional metering or monitoring equipment is needed but not available to the  
17      state or county, the director or sheriff shall partner with an institution of higher  
18      education to investigate and provide evidentiary findings that would qualify as scientific  
19      expert testimony.

20      **Enforcement actions.**

- 21      1. If the director or sheriff has reason to believe an individual is violating, has violated, or  
22      is attempting to violate this chapter, the director or sheriff shall issue and serve an  
23      order to cease the activity.
- 24      2. The governor may request the adjutant general to identify and notify the owner or  
25      operator of any aircraft or facility releasing aerosol emissions, electromagnetic  
26      radiation, or other pollutants into the atmosphere to cease the activity. The adjutant  
27      general shall order the operator of an aircraft releasing aerosol emissions,  
28      electromagnetic radiation, or other pollutants into the atmosphere to land at the  
29      nearest airport to be investigated for violating this chapter. The governor may request  
30      the bureau of criminal investigation to investigate any activity that may violate this  
31      chapter.

- 1       3. The governor may request the department of environmental quality for an  
2       environmental study to investigate a violation of this chapter.

3       **Xenobiotic agents and radiation - Enforcement.**

4       If the director or sheriff receives information alleging weather engineering or other  
5       atmospheric experimentation involving the release of a xenobiotic agent or the production of  
6       harmful levels of electromagnetic radiation, the director or sheriff shall:

- 7       1. Immediately require the owner or operator of the facility, aircraft, or other vehicle  
8       releasing the xenobiotic agent or producing electromagnetic radiation to produce a  
9       record of any site where a xenobiotic agent or radiation has been detected and convey  
10      the records to the director or sheriff.  
11      2. Immediately order the owner or operator to cease operations of the facility, aircraft, or  
12      other vehicle; and  
13      3. Verify within twenty-four hours that the owner or operator has stopped all operations  
14      relating to the release of xenobiotic agents or the production of electromagnetic  
15      radiation.

16      **Electromagnetic disturbances - Enforcement.**

- 17      1. The director or sheriff immediately shall require the owner or operator of each tower,  
18      antenna, or other facility or infrastructure to produce a record of any operation where  
19      excessive xenobiotic electromagnetism and fields, mechanical vibrations, or other  
20      physical agents, are or have been detected, specifically:  
21      a. Radio frequency or microwave radiation at any reported publicly accessible  
22      location in excess of negative eighty-five decibel-milliwatts;  
23      b. Extreme-low-frequency alternating current electric fields in excess of one volt per  
24      eighty-two feet [25 meters];  
25      c. Magnetic fields in excess of one milligauss;  
26      d. Ionizing radiation in excess of 0.02 millisievert per hour;  
27      e. Laser or other light with harmful effects; and  
28      f. Any vibration, noise, laser, sonic weapon, or other physical agent exceeding  
29      building or biology guidelines.  
30      2. The owner or operator shall convey the records to the director or sheriff within twenty-  
31      four hours.

- 1        3. The director or sheriff shall:
- 2            a. Immediately order a cessation of operations of all antennas and other
- 3            deployments of energy or vibration emitted from the structure or facility.
- 4            b. Verify within twenty-four hours that the owner or operator has ceased all
- 5            operations of antennas and other deployments of energy or vibration; and
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