

North Dakota Cloud Seeding Facts

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North Dakota Cloud Seeding Facts

The North Dakota Cloud Modification Project (NDCMP) is an operational program that seeds clouds for hail damage reduction and rain enhancement in western North Dakota. Counties currently participating in the program are Bowman, McKenzie, Mountrail, Williams, and part of Slope. NDCMP Areas.

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Cloud seeding produces an estimated 5-10% in additional rainfall for farmers and ranchers in western North Dakota's project area. Cloud seeding studies in North Dakota indicate a 45% reduction in crop hail losses. As of 2019, the NDCMP has provided 387 UND aviation students and 62 meteorology students with internships.

RADARS - North Dakota

It was hail's threat to small crops that spurred North Dakota to launch its program back in the 1950s. The state currently pays about \$400,000 toward the program, or about one-third of the cost, and it operates in seven counties. Most studies suggest cloud-seeding produces more rain, but it's not clear to what extent.

In parched North Dakota, cloud-seeding irks some farmers ...

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North Dakota cloud seeding planes get the green light ...

“Here in North Dakota, we’ve been doing cloud seeding operations and research for more than five decades, and the program in North Dakota demonstrates an increase in precipitation by 10 ...

Changing the weather: Cloud seeding more common in North ...

At one time, 36 of North Dakota’s 53 counties participated in some sort of cloud seeding program, though many of those programs were short-lived, Langerud said.

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Drought heightens controversy over cloud seeding | State

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It's done by aircraft in North Dakota, but can be done by rockets or by generators on the ground. The silver iodide causes water droplets in the clouds to form ice crystals that become heavier and...

In parched North Dakota, cloud-seeding irks some farmers

Cloud droplets form when atmospheric water vapour condenses on small particles in the atmosphere called cloud condensation nuclei (CCN).... The first experiments with cloud seeding were conducted in 1946 by American chemist and meteorologist Vincent J. Schaefer, and since then seeding has been performed from aircraft, rockets, cannons, and ground generators.

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Cloud seeding | atmospheric science | Britannica

Weather Modification, Incorporated is the leader in atmospheric assessment and evaluation. Since 1961, we have been working in the sky, providing unmatched, scientifically based meteorological services and atmospheric solutions.

WEATHER MODIFICATION: cloud seeding, atmospheric services ...

Cloud seeding is a type of weather modification that aims to change the amount or type of precipitation that falls from clouds by dispersing substances into the air that serve as cloud condensation or ice nuclei, which alter the microphysical processes within the cloud. The usual intent is to increase precipitation (rain or snow), but hail and fog suppression are also widely practised in airports where harsh weather conditions are experienced.

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Cloud seeding - Wikipedia

But some North Dakota growers are trying to end a state cloud-seeding program that's been around for generations, believing it may be making the drought worse. Besides anecdotal accounts from decades of farming, they cite satellite images of clouds dissipating after being seeded and statistics over two decades that they say show less rainfall in counties that cloud-seed than surrounding ones that don't.

In parched North Dakota, cloud-seeding irks some farmers ...

North Dakota is consistently among the top states for annual hail damage to agricultural crops and historically high rates of hail damage are one of the key reasons for implementing the North Dakota Cloud Modification Project (NDCMP). Cloud seeding, in an attempt to mitigate the hail damage inflicted on agricultural crops, has been implemented in

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Economic Impacts of Cloud Seeding on Agricultural Crops in ...

State of South Dakota - Department of Natural Resources
Division of Weather Modification Objective: Hail Damage Mitigation. Duration: 1974, 1975. Products and Services Provided: Aircraft & Personnel for Cloud Seeding; Weather Radar Systems

State of South Dakota - WEATHER MODIFICATION: cloud ...

A specially-designed American aircraft, that will be used to take up cloud seeding, landed at the Jakkur airfield on Monday. Cloud seeding aircraft arrives from North Dakota | Deccan Herald GET

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Cloud seeding aircraft arrives from North Dakota | Deccan

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Cloud seeding only works when there are freezing, moist clouds in the air. And the technology can be controversial. "The whole thing is propaganda," said Jamie Kouba, 32, a farmer from Regent, North Dakota, who argues that cloud seeding is decreasing rainfall in his area, rather than increasing it.

Why 'Cloud Seeding' is Increasingly Attractive to the ...
(Rapid City, South Dakota) In June 1972, federal government and South Dakota School of Mines Institution of Atmospheric Sciences in joint project seeded number of clouds over Black Hills of South Dakota. Film of 1972 cloud-seeding experiment shown. In matter of hrs., rain began and turned into flash flood over Rapid City.

**Cloud-Seeding Experiment / Lawsuit | Vanderbilt
Television ...**

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The Black Hills Flood of 1972, also known as the Rapid City Flood, was the most detrimental flood in South Dakota history, and one of the deadliest floods in U.S. history. The flood took place on June 9–10, 1972 in the Black Hills of Western South Dakota. 15 inches (380 mm) of rain in a small area over the Black Hills caused Rapid Creek and other waterways to overflow.

1972 Black Hills flood - Wikipedia

FARGO, N.D. (AP) — In the parched northern Plains, where the worst drought in decades has withered crops and forced some ranchers to begin selling off their herds, a cloud-seeding program aimed ...

In parched North Dakota, cloud-seeding irks some farmers ...

Weather modification, or cloud seeding, involves spraying clouds to suppress hail, and prevent crop damage. ... North Dakota

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Today. VOD Recording. Evening weather 8-5-2020. Updated:
Aug. 5, 2020 ...

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