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**WEATHER MODIFICATION, INC.**  
 ATMOSPHERIC RESOURCES MANAGEMENT TECHNOLOGIES  
 FOR THE 21ST CENTURY

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**NORTH DAKOTA CLOUD MODIFICATION PROJECT**

**Background**

The first cloud seeding activities of record in North Dakota occurred in 1951. Farmers using ground-based generators performed this early seeding. Aircraft were first used for cloud seeding activities in 1961. This is the program that began WMI as a company in 1961, and WMI has conducted the North Dakota Cloud Modification Project for almost every season since. WMI provides the aircraft and Pilots-in-Command for the project while the North Dakota Atmospheric Resource Board provides the co-pilots (UND interns), the meteorologists, the radars, and the flares and chemical used on the project.

**Project Status:**  
 Off-Season

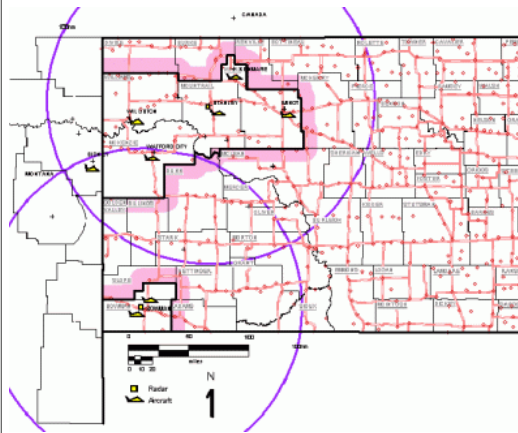
[Stanley Radar Site Image Archive](#)

[Bowman Radar Site Image Archive](#)

**Related Links**

[North Dakota Atmospheric Resource Board](#)

**Project Area**



**Project Information**

**Purpose:**  
 Rain Enhancement and *Hail Damage Mitigation*

**Season:**  
 June 1 - August 31

**Equipment Used:**  
 » 2 cloud-top seeding aircraft  
 (2 Cessna 340's) with:  
 - Dry Ice Hoppers  
 - 2 Ejectable Flare Racks  
 - Wing-tip Generators  
 » 6 cloud-base aircraft  
 (4 Cessna 340's and 2 Piper Seneca II's) with:  
 - Burn-in-Place Flare Racks  
 - Wing-tip Generators  
 » 1 radar at Stanley, ND  
 » 1 radar at Bowman, ND

The current target area for the North Dakota Cloud Modification Project covers nearly 10,500 sq. miles (more than 6.7 million acres), almost 15% of the state's area. The target area is divided into two Districts:

- District I:** Bowman County and part of Slope County
- District II:** Ward, Mountrail, Williams, and McKenzie Counties

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