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# WEATHER MODIFICATION, Inc.

ATMOSPHERIC RESOURCES MANAGEMENT TECHNOLOGIES  
FOR THE 21<sup>ST</sup> CENTURY

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## FOG DISPERSAL

Weather Modification, Inc., offers a full suite of tools for your supercooled fog dispersal program. Whether you need to improve visibilities at airports or on roadways, WMI is ready to provide the equipment, expertise and support to get your program off to a successful start.

We tailor our services to the user's needs, offering everything from turn-key programs to those specific services. While we excel in rapid-response deployment of turn-key fog clearing programs, we also can provide complex transfer programs through which the clients ultimately have full ownership of self-run programs. We also offer ground-based and airborne **seeding equipment**, **instrumentation**, and **aircraft conversions**.

Most supercooled fogs form when nocturnal radiational cooling allows moisture-laden air to cool to the dew point. As the moisture-laden air is cooled as it moves over a much colder surface, the air becomes supercooled. Treatment of the supercooled fog with seeding materials accelerates the ice-formation process, producing many, many, more ice particles, which then capture the available fog (cloud) water, quickly depleting it. The resulting ice crystals settle slowly to the ground, collecting cloud droplets as they fall. Visibility is markedly improved, often to the point of sunlight reaching the ground.

Click on the image below for more information on fog clearing.



Apart from correctly identifying those fogs that are supercooled, the other two critical aspects are proper seeding agent to the fog, and of course, the quantity and quality of the **seeding agent** itself. In addition to ground-based seeding agents, dry ice is also often used.

Fog dispersal seeding is normally done with aircraft, or on occasion with mobile ground-based seeding apparatus. The seeding agent must be released directly into the treatable (supercooled) fog. This can be done by release of seeding agent over-flight of the fog or flight within it near cloud top. Releases from the surface may also be effective, provided the releases are sufficiently shallow that the seeding agent can mix by dispersion through the full vertical depth of the fog. For ground-based releases the vertical mixing depth is not more than a few hundred meters, or about 1,000 ft.

For assistance with your fog-clearing program design, [contact us](#).

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