

## The Cloud Seeding Report

2021-2022

The Emery Water Conservancy District received its first license and permit from the Utah Division of Water Resources to seed operationally with the propane system during the winter of 1997-98. Operational seeding has continued every winter since that initial year. The main site is at Fred's Flat and four satellite sites, one at Willow Creek, Manti Canyon 1, Manti Canyon 2, and one is at a site called Hell Hole. Each site now have two tanks on each trailer that have four hundred gallons of propane in each. The main site would detect the right conditions for cloud seeding and it would turn on and also turn on the other four sites. When conditions are not right for cloud seeding, the main site would turn off and also turn off the other four sites. Fairview Canyon 1 has its own weather station and operates independent of the Fred's Flat system

The winter of 2021-2022, the District operate six sites for propane cloud seeding. The main site, Fred's Flat, and the satellite sites, Willow Creek, Hell's Hole, Manti Canyon 1, Manti Canyon 2, and Fairview. At each site, there are two trailers with 800 gallons of propane on each.

The District started to seed on December 1, 2021. The District turned off the seeders on May 1, 2022.

Fred's Flat used 1,600 gallons of propane and seeded for 37 days.

Willow Creek used 1216 gallons of propane and seeded for 37 days.

Hell's Hole used 800 gallons of propane and seeded for 37 days.

Manti Canyon 1 used 800 gallons of propane and seeded for 37 days

Manti Canyon 2 used 1,399 gallons of propane and seeded for 37 days.

Fairview Canyon used 1,451 gallons of propane and seed for 34 days.

Using the Lower Basin States monies, this allow the District to have more propane on site at each station which allowed the District to seed almost a third longer.