

Umatilla County Operations Report

Drafted for the *Oregon Department of Agriculture*

January Report

RAINMAKER



December 2024 Weather Modification Report

Equipment, type and composition of materials, operational times

Drone: Rainmaker Elijah v0



Material: Silver Iodide

Operation Logs:

Date	Duration (Minutes)	Agl Mass Dispersed (g)
20250104	210	350
20250110	90	150
20250123	210	350
20250130	60	100
20250131	30	50

Locations of equipment operation

West Pilot Rock, Umatilla County

Name and address of each person participating in the operation other than the licensee

Kaitlyn Suski & Teegan Romero



Estimated precipitation gain or loss resulting from the operations

Precipitation totals are still being assessed, and Rainmaker's atmospheric research team is diligently reviewing radar data stemming from the recent weather activity. We anticipate providing comprehensive findings and supplemental reports to the Oregon Department of Agriculture once the analysis and season are complete.

Preliminary indicators suggest January was relatively wet, which may have contributed to elevated storm systems throughout the area. Additionally, initial observations from SNOTEL sites within our operational corridor indicate snowpack levels still outpacing seasonal averages, likely reflecting these heightened precipitation patterns.

Furthermore, early radar analysis from a December operation suggests that a single drone-based precipitation enhancement flight may have contributed to the formation of potentially millions of gallons of additional water. This estimate is based on initial reflectivity and hydrometeor classification data, which our team continues to refine as part of a broader impact assessment. We will provide more detailed quantitative findings as the evaluation progresses.