

From: [COOK Nirvana Z * WRD](#)
To: [WRD Commissioners](#)
Subject: Public Comment - Sept. 1 WRC Meeting
Date: Friday, August 19, 2022 9:39:00 AM

Good morning, Commissioners,

Please see the email below, submitted by Tony Newbill of N3 Cattle Company as public comment for the September 1 WRC meeting.

Thank you,

Nirvana Cook

Executive Assistant to Director Tom Byler
and the Water Resources Commission

****Please note my new email address – nirvana.z.cook@water.oregon.gov***

From: n3ranchlife@gmail.com <n3ranchlife@gmail.com>
Sent: Wednesday, August 17, 2022 12:13 PM
To: COOK Nirvana * WRD <Nirvana.COOK@water.oregon.gov>
Subject: Dear Nirvana Cook , I wanted to forward you for the next WRC meeting Sept 1-2 , these items

Dear Nirvana Cook , I wanted to forward you for the next WRC meeting Sept 1-2 , these items on what Idaho Power Administration has been doing for 20 years with Cloud Seeding as well as The Idaho State Legislation on advancing the project statewide , so the members can have a better understanding .

There are neighboring states doing it too . I think Oregon should try , because even if we stop using fossil fuel we don't know how long it will take for the climate to heal .

Here the USDA Water Specialist Ron Abramovich calls on Pacific Northwest States to begin collaborating with Idaho on their Cloud Seeding program ,

https://www.capitalpress.com/opinion/columns/commentary-cloud-seeding-can-aid-collaborative-efforts-to-restore-idaho-s-salmon-runs/article_59a4f50c-809b-11ec-a9b8-bf85a290e8a2.html

Now they have 54 Generators , and Idaho State Legislature just passed legislation to expand this project statewide .

36 CLOUD-SEEDING TOWERS USED TO ENHANCE SNOWPACK by Idaho Power Company
<https://youtu.be/fxYjwPzmn80>

Idaho power website,

<https://www.idahopower.com/energy-environment/energy/energy-sources/hydroelectric/cloud-seeding/frequently-asked-questions/>

The Washington Post: Cloud seeding gains steam as West faces worsening droughts
<https://www.washingtonpost.com/weather/2021/11/21/cloud-seeding-drought-west/>

Oregon's Permitting Process to operate this project ,
https://oregon.public.law/statutes/ors_558.040

This Study by Berkley LAB is Extremely Dire and More reason to consider Cloud Seeding in Oregon ,
<https://columbiainsight.org/study-says-cascades-could-have-no-snowpack-in-50-years/>

This from 7 years ago ... notice the Trailer mounted Cloud Seeding Generators , I think this would be what we will want ,
<https://www.snowboarder.com/transworld-snowboarding-archive/snowboarding-features/every-cloud-has-a-silver-iodide-lining/>

Reno has a cloud seeding team to Service the Tahoe Ski Resorts ,
www.skywaterventures.com

I am very Impressed with this Institute in Nevada ,
<https://www.dri.edu/researchareas/>
<https://www.dri.edu/cloud-seeding-program>

Notice where they are cloud seeding and not cloud seeding ,
<https://droughtmonitor.unl.edu/>

See what Idaho legislature Has done ,
<https://legislature.idaho.gov/wp-content/uploads/sessioninfo/2021/legislation/H0266.pdf>

This shows locations of Idaho cloud seeding ground units , As you will see they are located primarily on the west side of rocky mountains and a few on the edge of the sawtooth mountains above Idaho Falls

<http://climateviewer.org/history-and-science/geoengineering-and-weather-modification/maps/idaho-power-company-cloud-seeding-generators/>

Here is Utah Cloud Seeding Program ,
<https://water.utah.gov/cloudseeding/>
<https://www.sltrib.com/news/2021/03/28/utah-is-leader-cloud/>

California Cloud Seeding ,
<https://www.msn.com/en-us/weather/topstories/aircraft-cloud-seeding-was-done-over-norcal-this-morning-here-s-what-that-is/ar-AAV6uT4?ocid=uxbndlbing>
<https://inhabitat.com/world-turns-to-cloud-seeding-amid-drought-and-climate-change/>

Wyoming Cloud Seeding ,
<https://www.wylnet.com/2021/12/17/wyoming-cloud-seeding-activities-shared/>

Colorado Cloud Seeding ,

<https://www.colorado.edu/today/2020/02/24/cloud-seeding>

More Info ,

<https://www.discovermagazine.com/technology/cloud-seeding-in-colorado-could-make-waves-in-the-west>

<https://www.denverpost.com/2022/03/26/colorado-cloud-seeding-snow-drought/>

<https://cwcb.colorado.gov/focus-areas/supply/weather-modification-program>

This link shows a Ground Generator breakdown of technology that is used on Generator , notice the Satellite linkup head so operation can be controlled from any location and computer program using Doppler radar weather detection to tell which generators to seed in location to most moisture content in cloud mass . This “ Target Seeding “ is how Idaho Power gets their budget ratio at 2 million dollars per 1 million acre ft of extra water , scroll down to see generator picture , <http://climateviewer.org/history-and-science/geoengineering-and-weather-modification/maps/grand-mesa-colorado-cloud-seeding-generators/>

Thanks again for your time .

Tony Newbill
N3 Cattle Company
7411 SW Copley Rd
Powell Butte, Or 97753
928-231-2478