



Legislation Details (With Board Report)

File #: WRAG 17-203 **Name:** Cloudseeding Program Feasibility Study

Type: WR General Agenda **Status:** Agenda Ready

File created: 9/7/2017 **In control:** Water Resources Agency Board of Directors

On agenda: 9/18/2017 **Final action:**

Title: Consider receiving a Feasibility/Design Study for a Winter Cloud Seeding Program in the San Antonio and Nacimiento Drainages, California and providing direction to staff.

Sponsors:

Indexes:

Code sections:

Attachments: 1. Board Report, 2. Cloudseeding Program Feasibility Study, 3. Board Order

Date	Ver.	Action By	Action	Result
9/18/2017	1	Water Resources Agency Board of Directors		

Consider receiving a Feasibility/Design Study for a Winter Cloud Seeding Program in the San Antonio and Nacimiento Drainages, California and providing direction to staff.

RECOMMENDATION:

It is recommended that the Monterey County Water Resources Agency Board of Directors:

Receive a Feasibility/Design Study for a Winter Cloud Seeding Program in the San Antonio and Nacimiento Drainages, California and provides direction to staff.

SUMMARY/DISCUSSION:

Recent drought conditions before last winter renewed interest in a cloud seeding program for the Nacimiento Reservoir and San Antonio Reservoir watersheds. As a result, the Agency contracted North American Weather Consultants, Inc. (NAWC) last fall to perform a feasibility study for a cloud seeding program targeting the watersheds of the Nacimiento and San Antonio reservoirs.

Using guidelines from the American Society of Civil Engineers, NAWC concluded that a cloud seeding program for the reservoirs would be technically and economically feasible. Annual costs for a cloud seeding program are estimated to range from \$136,000 to \$312,700 depending on the components of the program. Estimated cost per acre-foot of water produced as a result of the cloud seeding program range from approximately \$3 to approximately \$9 per acre-foot. These estimates don't include costs for a California Environmental Quality Act compliance process that might be likely needed prior to the implementation of a cloud seeding program.

At its July 27, 2017 committee meeting, the Reservoir Operations Advisory Committee recommended seeking support from the Board of Directors to move forward with the implementation of a cloud seeding program for the Nacimiento and San Antonio reservoirs.

OTHER AGENCY INVOLVEMENT:

A similar feasibility study was performed for San Luis Obispo County for a cloud seeding program for the Lopez Lake and Salinas Reservoirs.

FINANCING:

None for receiving cloud feasibility study report.

Prepared by: Germán Criollo, Associate Water Resources Hydrologist (831) 755-4860

Approved by: _____
David E. Chardavoyne, General Manager, (831) 755-4860