Complete in accordance with instructions on reverse and forward copy:

TO: National Oceanic and Atmospheric Administration
Office of Oceanic and Atmospheric Research
1315 East-West Highway SSMC-3 Room 11554
Silver Spring, MD 20910

Form Approved: OMB No. 0648-0025 Expires 01/31/2018

NOAA FORM 17-4 (4-81) U.S. DEPARTMENT OF COMMERCE
NAT'L OCEANIC AND ATMOSPHERIC ADM.

INITIAL REPORT ON WEATHER MODIFICATION ACTIVITIES (P.L. 205, 92ND. CONGRESS)

1. PROJECT OR ACTIVITY DESIGNATION, IF ANY
Kings River, California

2. DATES OF PROJECT
a. DATE FIRST ACTUAL WEATHER MODIFICATION ACTIVITY IS TO BE UNDERTAKEN: 11/15/2020
b. EXPECTED TERMINATION DATE OF WEATHER MODIFICATION ACTIVITIES: 04/15/2021

3. PURPOSE OF PROJECT OR ACTIVITY
Increase precipitation

4. (a) SPONSOR

NAME		
David Merritt		
AFFILIATION	PHONE NUMBER	
Kings River Conservation District	5592375567	
STREET ADDRESS		
4886 E Jensen Ave		
CITY	STATE	ZIP CODE
Fresno	CA	93725

4. (b) OPERATOR

NAME		
Todd Flanagan		
AFFILIATION	PHONE NUMBER	
North American Weather Consultants	8019429005	
STREET ADDRESS		
8180 South Highland Dr Ste B-2		
CITY	STATE	ZIP CODE
Sandy	UT	84093

5. TARGET AND CONTROL AREAS (See Instructions)

TARGET AREA		CONTROL AREA	
LOCATION	SIZE OF AREA	LOCATION	SIZE OF AREA
see map	2225 SQ.MI	Various sites north of target area	NA SQ.MI.

6. DESCRIPTION OF WEATHER MODIFICATION APPARATUS, MODIFICATION AGENTS AND THEIR DISPERSAL RATES, THE TECHNIQUES EMPLOYED, ETC. *(See Instructions)*
Seeding equipment consists of 15 ground-based cloud nuclei generators. Ground-based generators emit 12 grams of silver iodide per hour. Operational decisions will be made from the main NAWC office in Sandy, UT.

7. LOG BOOKS: *Enter name, affiliation, address, and telephone number of responsible individual from whom log books or other records may be obtained.*

NAME		
Todd Flanagan		
AFFILIATION	PHONE NUMBER	
North American Weather Consultants	8019429005	
STREET ADDRESS		
8180 South Highland Dr, Ste B-2		
CITY	STATE	ZIP CODE
Sandy	UT	84093

THIS REPORT IS REQUIRED BY PUBLIC LAW 92-205; 85 STAT 735; 15 U.S.C. 330b. KNOWING AND WILLFUL VIOLATION OF ANY RULE ADOPTED UNDER THE AUTHORITY OF SECTION 2 OF PUBLIC LAW 92-205 SHALL SUBJECT THE PERSON VIOLATING SUCH RULE TO A FINE OF NOT MORE THAN $10,000, UPON CONVICTION THEREOF.

8. SAFETY AND ENVIRONMENT

X YES NO Has an Environmental Impact Statement, Federal or State been filed? If yes, please furnish a copy as applicable.

X YES NO Have provisions been made to acquire the latest forecasts, advisories, warnings, etc. of the National Weather Service, Forest Service, or others when issued prior to and during operations? If yes, please specify on a separate sheet.

X YES NO Have any safety procedures *(operational constraints, provisions for suspension of operations, monitoring methods, etc.)* and any environmental guidelines *(related to the possible effects of the operations)* been included in the operational plans? If yes, please furnish copies or a description of the specific procedures and guidelines.

9. OPTIONAL REMARKS *(See Instructions. Use Separate Sheet.)*

NAME	**CERTIFICATION:** I certify that the above statements are true, complete and correct to the best of my knowledge and belief.		
Todd Flanagan			
AFFILIATION	SIGNATURE		
North American Weather Consultants			
STREET ADDRESS	OFFICIAL TITLE		
8180 South Highland Dr Ste B-2	Meteorologist		
CITY / STATE / ZIP CODE	DATE	PHONE NUMBER	
Sandy / UT / 84093	10/20/2020	8019429005	

INSTRUCTIONS FOR INITIAL REPORT ON WEATHER MODIFICATION ACTIVITIES

One completed copy of this form is to be received 10 days* or more prior to actual modification activities. A NOAA file number will be assigned by the Administrator after receipt of the initial report for each project or activity.

A supplemental report in a letter form referring to the appropriate NOAA file number must be made to the Administrator if the "Initial Report" is found to contain any material inaccuracies, misstatements, and omissions, or if there are changes in plans for the project or activity.

*For exceptions, see Sections 908.4(b) and (c), Part 908 of Title 15, Code of Federal Regulations.

Item 1. Enter designation, if any, used by operator for the project or activity.

Item 2. Enter: (a) Date first actual weather modification activity is to be undertaken;
(b) Date on which final weather modification activity is expected to occur.

Item 3. Enter the purpose of the project or activity: e.g., rainfall increase, hail suppression, cold fog dispersal, etc.

Item 4. Enter: (a) Name, phone number, affiliation, and address of the primary person for whom the project is to be performed (sponsor).

(b) Name, phone number , affiliation, and address of the person primarily responsible for carrying out the project (operator).

Item 5. A map should be attached showing size and location of target area, control area, coded number and location of each item of ground-based weather modification apparatus and coded number and location of key raingages, radars, or other precipitation measuring devices. Also show location of airport for airborne operations.

Item 6. Describe the weather modification apparatus, modification agents, and the techniques to be used. This would include type of ground or airborne apparatus to be used, type of modification material to be dispensed, rate of dispensing material in grams per hour or other appropriate units, type of precipitation gages to be used in target and control areas, and any other pertinent information such as type of radars, type of aircraft to be used, techniques to be employed, (e.g., cloud base seeding at 10,000 feet msl).

Item 7. List name, phone number , affiliation, and address of the responsible individual from whom log books or other records may be obtained.

Item 8. Provide applicable answers to questions as indicated.

Item 9. This item is to permit the reporting person to include any information not covered by items 1 through 8 but which he feels is significant or of interest. It is also to be used to include any information not covered elsewhere that the Administrator may request.

INFORMATION PROVIDED UNDER THE PROVISIONS OF THE PAPERWORK REDUCTION ACT OF 1995

The Paperwork Reduction Act of 1995 requires that individuals or organizations be provided with the following information if they provide information on paper forms which are collected by the Federal Government. (This includes reports required of weather modification activities.)

1. Public Law 92-205, enacted December 18, 1971 (amended by Public Law 94-490, Section 6(b), October 15, 1976) requires that all non-federal weather modification activities in the United States and its territories be reported to the Secretary of Commerce. The National Oceanic and Atmospheric Administration has implemented the Act and the current reporting requirements are published in the Catalog of Federal Regulations (15 CFR 908).

2. The intent of the program is to increase expertise in the field of weather modification, to allow scientists and other concerned persons to have access to information on current and past efforts at weather modification, to help avoid unneeded and wasteful duplications, to aid in preventing territorial overlapping of weather modification operations, to provide data to assess possible harmful or dangerous activities, and to furnish information to check both desirable and undesirable atmospheric changes against records of weather modification efforts. To meet this objective, information is collected on the location and size of the target area, names and addresses OF sponsors and operators, beginning and ending dates of the project, specific purpose, description of apparatus and seeding agents to be used, number of days of operations, number of hours of operations of each type of weather modification apparatus, and total amount of seeding agent used.

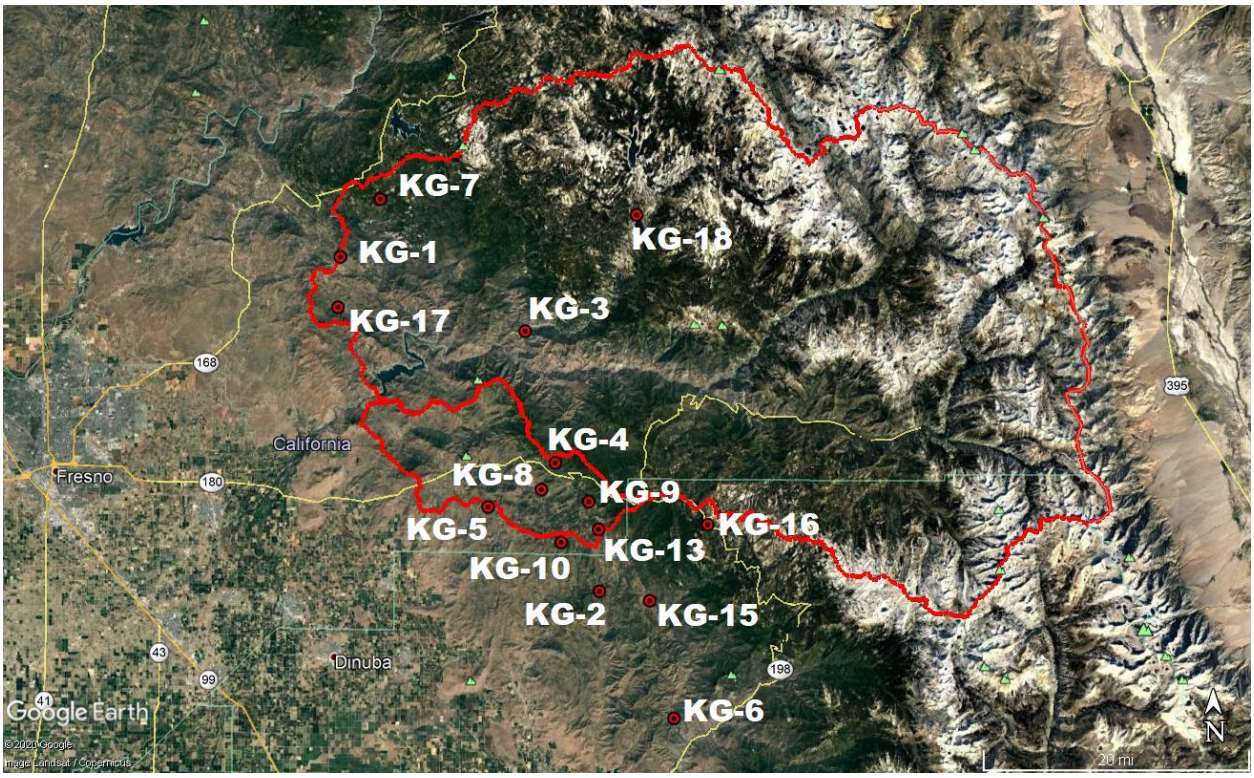
3. Public reporting burden for this collection of information is estimated to average 40 hours for reporting and 200 hours for record keeping, based on one-half hour per response on Form 17-4 and one-half hour per response on Form 17-4A, and five hours per record keeper. It is estimated that the time per response is approximately the same across all respondents. Send comments regarding this burden estimate or any other aspect of this data collection, including suggestions for reducing this burden to: Ms. Karen King, DOC/NOAA/OAR, 1315 East West Highway, Silver Spring, MD 20910.

4. Reporting of this information under Public Law 92-205, enacted December 18, 1971 (amended by Public Law 94-490, Section 6(b), October 15, 1976) is <u>mandatory</u>.

5. Confidentiality is not a requirement for this reporting; no sensitive information is required.

6. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number.

September 1, 2000
Expires 09/30/2004



Kings River Program Target Area Ground-Based Sites.

Suspension Criteria - Kings River Program

Suspension criteria have been developed in order to minimize or avoid contribution of cloud seeding to a potentially hazardous situation. This includes three hazardous situations that may have the potential to occur due to winter season storm activity:

a. Excess snowpack accumulation
b. Flooding situations
c. Severe weather

Suspension criteria have been developed based on snowpack amounts at observation sites within the target area. These snowpack amounts serve as a guide regarding potential suspension of the seeding program; they are not hard and fast criteria, but rather are designed to prompt close coordination with the water managers. These criteria are based on average target area snowpack on a given day as follows:

a. 200% of average on January 1
b. 180% of average on February 1
c. 160% of average on March 1
d. 150% of average on April 1

Since snowpack observations are available on a daily basis at most sites, interpolation of these percentages can be made for any given day in order to aid in suspension decisions.

Another important measure in this regard is the April-July runoff forecast issued by California Department of Water Resources, which is based on the snowpack conditions and other factors. If the forecast runoff exceeds 130% of average after March 1, discussion and coordination with the project sponsors in appropriate. Reservoir storage levels, soil moisture content, and amounts of precipitation in prior seasons are other factors to consider in assessing whether a seeding suspension is appropriate.