12-1568

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 11216
Silver Spring, MD 20910

Form Approved: OMB No. 0648-0025 Expires 12/31/2007

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**
Stansilaus Weather Modification Program

**2. DATES OF PROJECT**
a. DATE FIRST ACTUAL WEATHER MODIFICATION ACTIVITY IS TO BE UNDERTAKEN: 11/01/2012
b. EXPECTED TERMINATION DATE OF WEATHER MODIFICATION ACTIVITIES: 05/01/2013

**3. PURPOSE OF PROJECT OR ACTIVITY**
Increase precipitation in select mountainous areas of east-central CA.

**4. (a) SPONSOR**

| NAME | AFFILIATION | PHONE NUMBER |
|---|---|---|
| Mark Neuvert | Northern California Power Agency | (209) 728-1387 |

| STREET ADDRESS | CITY | STATE | ZIP CODE |
|---|---|---|---|
| 477 Bret Harte Drive | Murphys | CA | 94247 |

**4. (b) OPERATOR**

| NAME | AFFILIATION | PHONE NUMBER |
|---|---|---|
| Hans Ahlness | Weather Modification, Inc. | (701) 235-5500 |

| STREET ADDRESS | CITY | STATE | ZIP CODE |
|---|---|---|---|
| 3802 20th Street North | Fargo | ND | 58102 |

**5. TARGET AND CONTROL AREAS (See Instructions)**

| TARGET AREA | | CONTROL AREA | |
|---|---|---|---|
| LOCATION | SIZE OF AREA | LOCATION | SIZE OF AREA |
| East-Central California, USA | ~74 SQ.MI | NA | SQ.MI. |

**6. DESCRIPTION OF WEATHER MODIFICATION APPARATUS, MODIFICATION AGENTS AND THEIR DISPERSAL RATES, THE TECHNIQUES EMPLOYED, ETC.** *(See Instructions)*

Airborne glaciogenic will be used to treat the specified target areas above the New Spicer Dam and North fork Diversion Dam, and some areas below the North Fork Diversion Dam. Seeding will be accomplished by the combustion of pyrotechnic flares, one at a time. The aircraft will dispense silver iodide seeding agent at the rate of 16 (sixteen) grams of silver iodide over a period of about 4 (four) minutes or at the rate of 2 (two) grams of silver iodide over a period of about 1 (one) every minute when storm conditions are favorable. Seeding will be guided by the project meteorologist, furnished by Northern California Power Agency. Additional meteorological services will be provided by Weather Modification, Inc.

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

| NAME | AFFILIATION | PHONE NUMBER |
|---|---|---|
| Erin Fischer | Weather Modification, Inc. | (701) 235-5500 |

| STREET ADDRESS | CITY | STATE | ZIP CODE |
|---|---|---|---|
| 3802 20th Street North | Fargo | ND | 58102 |

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**

- [ ] YES [X] 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 |
|---|---|
| Hans Ahlness | I certify that the above statements are true, complete and correct to the best of my knowledge and belief. |

| AFFILIATION | SIGNATURE |
|---|---|
| Weather Modification, Inc. | |

| STREET ADDRESS | OFFICIAL TITLE |
|---|---|
| 3802 20th Street North | Vice President-Operations |

| CITY | STATE | ZIP CODE | DATE | PHONE NUMBER |
|---|---|---|---|---|
| Fargo | ND | 58102 | 10/01/2012 | (701) 235-5500 201 |

NOAA FORM 17-4A
(4-81)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Form Approved OMB No. 0648-0025
Expires 12/31//2007

# INTERIM ACTIVITY REPORTS AND FINAL REPORT

This report is required by Public Law 92-205; 85 Stat. 735; 145 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.

NOAA FILE NUMBER
12-1568 Stanislaus Weather Modification Program

[ ] INTERIM REPORT [X] FINAL REPORT

Complete in accordance with instructions on reverse and forward one copy to:
National Oceanic and Atmospheric Administration
Office of Oceanic and Atmospheric Research
1315 East-West Highway SSMC-3 Room 11216
Silver Spring, MD 20910

REPORTING PERIOD
FROM 11/15/2012 TO 04/30/2013

| MONTH | (a) NUMBER OF MODIFICATION DAYS | (b) NUMBER OF MODIFICATION DAYS PER MAJOR PURPOSE | | | | (c) HOURS OF APPARATUS OPERATION BY TYPE | | (d) TYPE AND AMOUNT OF AGENT USED | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | INCREASE PRECIPITATION | ALLEVIATE | | OTHER | AIRBORNE | GROUND | SILVER IODIDE | CARBON DIOXIDE | UREA | SODIUM CHLORIDE | OTHER |
| | | | HAIL | FOG | | | | | | | | |
| JANUARY | | | | | | | | | | | | |
| FEBRUARY | 1 | 1 | | | | 2 | | 320 | | | | |
| MARCH | 3 | 3 | | | | 6 | | 2,680 | | | | |
| APRIL | 4 | 4 | | | | 8 | | 2,170 | | | | |
| MAY | | | | | | | | | | | | |
| JUNE | | | | | | | | | | | | |
| JULY | | | | | | | | | | | | |
| AUGUST | | | | | | | | | | | | |
| SEPTEMBER | | | | | | | | | | | | |
| OCTOBER | | | | | | | | | | | | |
| NOVEMBER | 6 | 6 | | | | 12 | | 2,610 | | | | |
| DECEMBER | 7 | 7 | | | | 16 | | 3,970 | | | | |
| TOTAL | 21 | 21 | 0 | 0 | 0 | 44 | 0 | 11,750 | 0 | 0 | 0 | 0 |
| TOTALS FOR FINAL REPORT | | | | | | | | | | | | |

DATE ON WHICH FINAL WEATHER MODIFICATION ACTIVITY OCCURRED *(For Final Report only.)* 04/16/2013

**CERTIFICATION:** I certify that all statements in this report on this weather modification project are complete and correct to the best of my knowledge and are made in good faith.

NAME OF REPORTING PERSON
Erin Fischer

AFFILIATION Weather Modification Inc.

SIGNATURE

STREET ADDRESS 3802 20th Street N

OFFICIAL TITLE
Technical Writer/Project Custodian

CITY Fargo | STATE ND | ZIP CODE 58102

DATE 05/01/2013

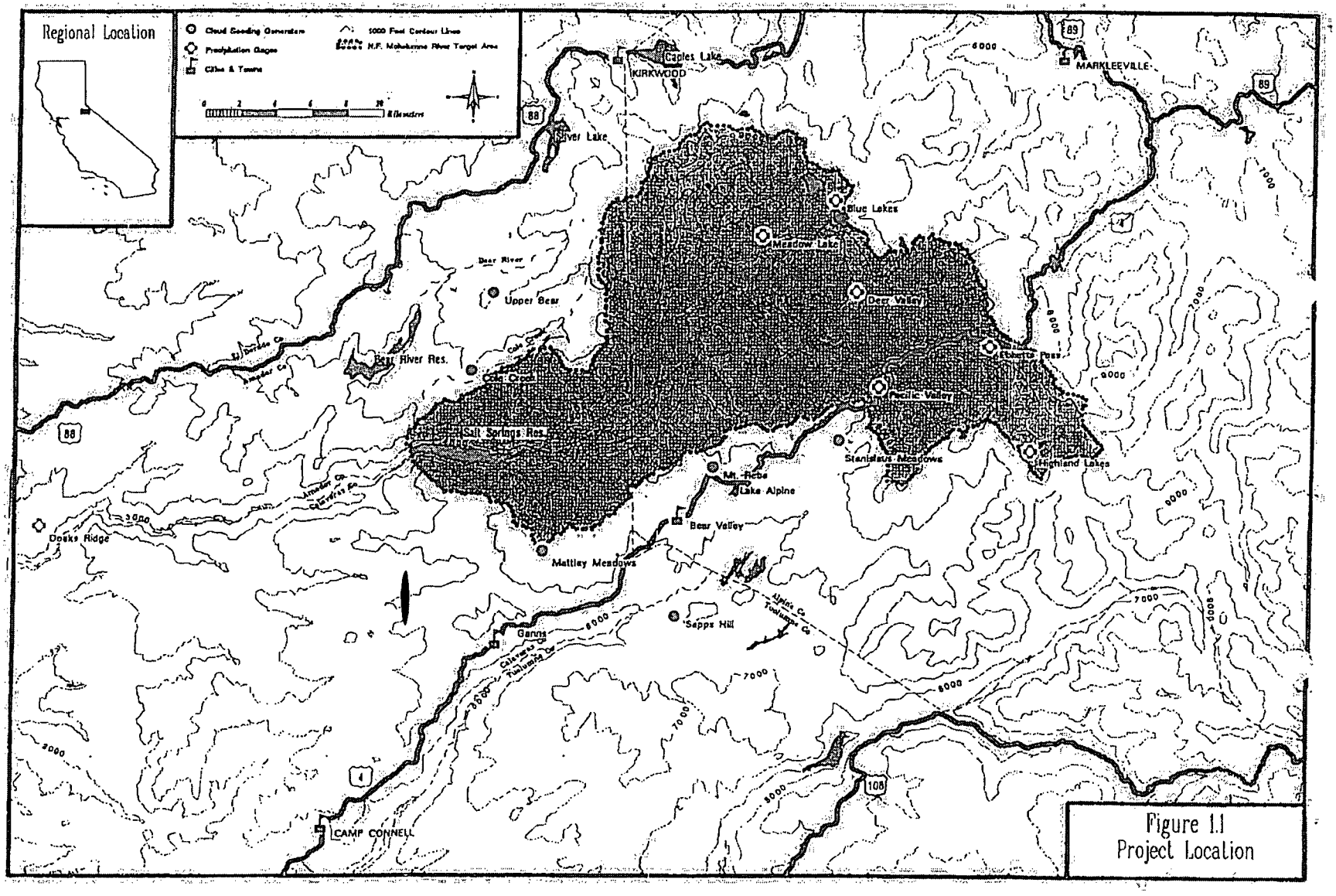



Figure 1.1. Project Location.

WEATHER MODIFICATION
INCORPORATED

1 May 2013

National Oceanic and Atmospheric Administration
Office of Oceanic and Atmospheric Research
Attn: Karen Williams (301) 713-9397 x 202, (301) 713-1459 fax
1315 East-West Highway SSMC-3 Room 11340
Silver Springs, MD 20910

RE: NOAA Form 17-4A, Final Report on Weather Modification Activities for:
Stanislaus Weather Modification Program, NOAA File No. 12-1568

Dear Ms. Williams:

Weather Modification, Inc. is pleased to submit the enclosed final report of weather modification activities conducted during the 2012-2013 winter season, in compliance with the National Oceanic and Atmospheric Administration's weather modification activities reporting requirement (P.L. 205, 92nd Congress).

If you have any questions, please contact me by telephone at: (701) 373-8829 or by e-mail at efischer@weathermodification.com.

Sincerely,

Erin Fischer
Technical Writer/Project Custodian

Tel: 1-701-235-5500 • Fax: 1-701-235-9717 • 3802 20th St N • Fargo, ND 58102 • USA
www.weathermodification.com

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Silver Spring, MD 20910

OFFICE OF OCEANIC AND ATMOSPHERIC RESEARCH

October 31, 2012

Mr. Hans Ahlness
Weather Modification, Inc.
3802 20th Street North
Fargo, ND 58102

Dear Mr. Ahlness:

Thank you for your Initial Report for the Stansilaus Weather Modification Program project. This project was assigned NOAA File Number 12-1568.

As a reminder, please submit a Final Report within 45 days after the project has terminated. This is mandated under Public Law 92-205.

Sincerely,

Karen Williams

Karen Williams, Manager
Weather Modification Activities
Reporting Program

Please note that attached are the revised NOAA 17-4 and 17-4a forms that should be used for all your future projects. Unfortunately, the forms are not available electronically at this time, so they will still need to be submitted by mail or fax to (301) 713-1459. If mailing, please be sure to put my name and correct room number (11340) on all correspondence to insure timely delivery. Thank you.

Printed on Recycled Paper

EDEN VALLEY IRRIGATION & DRAINAGE DISTRICT
P O BOX 174
FARSON, WYOMING 82932

APRIL 29, 2013

Ms. Karen Williams
Weather Modification Activities Reporting Program
NOAA/Office of Oceanic and Atmospheric Research
1315 East-West Highway
SSMC3, R/WA/ Room 11216
Silver Springs, MD 20910

Dear Ms. Williams:

Please find enclosed a copy of Interim Report and Final Report for the 2012-13 weather modification season.

If anything else is needed, please let me know.

Sincerely,

Jan Mines

Jan Mines
Office Manager

jm

Enclosures