

**NORTH AMERICAN WEATHER CONSULTANTS  
OPERATIONAL CLOUD SEEDING PROGRAMS  
Partial Listing (through August 2006)**

**Project Area:** Gunnison County, Colorado  
**Sponsor:** Gunnison County  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 2003-2006  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Little Cottonwood Canyon, Utah  
**Sponsor:** Alta and Snowbird Ski Areas  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1996 - 2006  
**Goal:** Enhanced winter snowfall for skiing

**Project Area:** Wellsville and Wasatch Mountains of Northern Utah  
**Sponsor:** Utah Division of Water Resources and Cache County  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1997 - 2000, 2002-2006  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Upper Ogden River and Lost Creek Watersheds, Utah  
**Sponsor:** Weber Basin Water Conservancy District and Utah Division of Water Resources  
**Technique:** Ground based and airborne silver iodide seeding  
**Time Period:** 1991 - 1993  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Upper San Joaquin River Drainage, Southern Sierra Nevada of California  
**Sponsor:** Southern California Edison Company  
**Technique:** Ground based and airborne silver iodide seeding with radar surveillance  
**Time Period:** 1951 - 1987 and 1990 - 1992  
**Goal:** Enhanced winter and summer precipitation for hydroelectric power production

**Project Area:** Mountain Watersheds in Central and Southern Utah  
**Sponsor:** Utah Water Resources Development Corporation  
 Utah Division of Water Resources, 13 Utah Counties  
**Technique:** Airborne and ground based silver iodide seeding  
**Time Period:** 1973 - 1983, 1987, 1988-2006  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Bear Lake Drainage, Smith & Thomas Forks, Southwestern Wyoming and Southeastern Idaho  
**Sponsor:** Utah Power and Light Company  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1954 - 1970; 1979 - 1982, 1989 - 1990  
**Goal:** Enhanced winter precipitation for hydroelectric power production

**Project Area:** Santa Barbara County, California  
**Sponsor:** Santa Barbara County and California Department of Water Resources  
**Technique:** Ground based and airborne silver iodide seeding with radar surveillance; ground-based flare seeding  
**Time Period:** 1950-1953; 1955; 1956-1960; 1978; 1982 - 1997, 2002-2006  
**Goal:** Enhanced winter precipitation for municipal and agricultural water supplies

**Project Area:** Grouse Creek, Raft River, Wellsville and Wasatch Mountains of Northern Utah  
**Sponsor:** Utah Water Resources Development Corporation, Utah Division of Water Resources, and Cache and Box Elder Counties  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1989 - 1997, 2001-2006  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Provo and Weber River Drainages in Western Uinta Mountains of Utah  
**Sponsor:** Utah Water Resources Development Corporation, Utah Division of Water Resources, Provo River Water Users Association and Weber Basin Water Conservancy District  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1989 - 1995, 2000-2006  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Wasatch Mountains in Eastern Salt Lake County, Utah  
**Sponsor:** Utah Water Resources Development Corporation; Utah Division of Water Resources; Salt Lake City Water Division; and Alta, Brighton, and Snowbird Ski Areas  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1989 - 1996  
**Goal:** Enhanced winter precipitation for municipal water supplies

**Project Area:** Upper Kings River Drainage in the Southern Sierra Nevada of California  
**Sponsor:** Kings River Conservation District and Kings River Water Users Association  
**Technique:** Airborne and ground based silver iodide seeding with radar surveillance  
**Time Period:** 1988 - 1994  
**Goal:** Enhanced winter precipitation for irrigation and hydroelectric power generation

**Project Area:** Upper Feather River Drainage in the Northern Sierra Nevada of California  
**Sponsor:** California Department of Water Resources  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1989  
**Goal:** Enhanced winter precipitation for municipal and irrigation water supplies

**Project Area:** Grand Mesa and West Elk Mountains of Western Colorado  
**Sponsor:** Grand Mesa Water Users Association  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1990 - 1991  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** San Gabriel Mountains, California  
**Sponsor:** Los Angeles County Flood Control District  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1959 - 1973, 1991 - 1993, 1997-2001  
**Goal:** Enhanced winter precipitation for municipal water supplies

**Project Area:** Bannock, Portneuf and Bear River Mountain Ranges of Southeastern Idaho  
**Sponsor:** Bear River RC&D and Bannock, Bear Lake, Caribou, Franklin, and Oneida Counties  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1988 - 1989, 1992, 1993  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Uinta Mountains of Northeastern Utah  
**Sponsor:** Uinta County, Duchesne County and Utah Division of Water Resources  
**Technique:** Airborne and ground based silver iodide seeding  
**Time Period:** 1977, 1989, 2003-2006  
**Goal:** Increased winter spring, and summer precipitation for irrigation water supplies

**Project Area:** Boise River Drainage, Idaho  
**Sponsor:** Boise Project Board of Control  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1992 - 1996, 2002-2005  
**Goal:** Enhanced winter precipitation for irrigation water supplies and hydroelectric power production

**Project Area:** Willow Creek Drainage, Colorado  
**Sponsor:** Northern Colorado Water Conservancy District  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1992 - 1995  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Higher Elevation Watersheds of Nine Eastern Idaho Counties and One Western Wyoming County  
**Sponsor:** High Country RC&D  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1993, 1995  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Santa Clara County, California  
**Sponsor:** Santa Clara Valley Water District  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1992  
**Goal:** Enhanced winter precipitation for municipal water supplies

**Project Area:** Mornos River Drainage, Greece  
**Sponsor:** Greater Athens Water Authority  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1992, 1993  
**Goal:** Enhanced winter precipitation for municipal water supplies

**Project Area:** Chixoy River Drainage, Guatemala, C. A.  
**Sponsor:** Empresa Electrica and Instituto Nacional de Electrificacion  
**Technique:** Airborne and ground based silver iodide seeding with radar surveillance  
**Time Period:** 1991, 1992, 1994  
**Goal:** Enhanced summer precipitation for hydroelectric power production

**Project Area:** El Cajon Drainage Basins, Honduras, C. A.  
**Sponsor:** Empresa Nacional De Energia Electrica  
**Technique:** Airborne and ground based silver iodide seeding with radar surveillance  
**Time Period:** 1993, 1994, 1995, 1997  
**Goal:** Enhanced summer precipitation for hydroelectric power production

**Project Area:** Tsengwen Dam Drainage, Taiwan  
**Sponsor:** Taiwan Central Weather Bureau  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1992, 1994  
**Goal:** Enhanced summer precipitation for irrigation water supplies

**Project Area:** West Central Texas Near San Angelo  
**Sponsor:** City of San Angelo, Texas  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1985, 1986, 1987, 1988  
**Goal:** Enhanced summer precipitation for municipal water supplies

**Project Area:** Edwards Plateau Northwest of San Antonio  
**Sponsor:** Edwards Underground Water District, San Antonio, Texas  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1985, 1986  
**Goal:** Enhanced summer precipitation for municipal water supplies

**Project Area:** South Central Texas North of Corpus Christi  
**Sponsor:** City of Corpus Christi, Texas  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1985  
**Goal:** Enhanced summer precipitation for municipal water supplies

**Project Area:** Pine Valley Mountains in Southwestern Utah  
**Sponsor:** Washington County Water Conservancy District and Utah Division of Water Resources  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1985-1987  
**Goal:** Enhanced winter precipitation for municipal and irrigation water supplies

**Project Area:** Southern Delaware  
**Sponsor:** Delaware Department of Agriculture  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1985  
**Goal:** Enhanced summer precipitation for agricultural water supplies

**Project Area:** Abu Dhabi, United Arab Emirates  
**Sponsor:** Abu Dhabi Municipality  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1982  
**Goal:** Enhanced winter precipitation for agricultural water supplies

**Project Area:** Catalina Island, California  
**Sponsor:** Southern California Edison, Co.  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1977 - 1978  
**Goal:** Enhanced winter precipitation for municipal water supplies

**Project Area:** Bulloch County, Eastern Georgia  
**Sponsor:** Drought Relief Fund  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1977  
**Goal:** Enhanced summer precipitation for agricultural water supplies

**Project Area:** Southern Georgia  
**Sponsor:** Southern Georgia Rain Gain  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1977  
**Goal:** Enhanced summer precipitation for agricultural water supplies

**Project Area:** Burke County, Eastern Georgia  
**Sponsor:** Burke County  
**Technique:** Airborne silver iodide seeding with radar surveillance  
**Time Period:** 1977  
**Goal:** Enhanced summer precipitation for agricultural water supplies

**Project Area:** Polk County, Oregon  
**Sponsor:** Polk County  
**Technique:** Airborne dry ice seeding  
**Time Period:** 1977  
**Goal:** Enhanced winter precipitation for agricultural water supplies

**Project Area:** Deschutes River Drainage, Central Oregon  
**Sponsor:** Portland General Electric Company  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1964-1965; 1974-1976  
**Goal:** Enhanced winter precipitation for hydroelectric power production

**Project Area:** Chelan Lake Drainage, Central Washington  
**Sponsor:** Chelan Public Utility District  
**Technique:** Airborne dry ice seeding  
**Time Period:** 1976 - 1977  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Baker River Drainage, Northern Washington  
**Sponsor:** Puget Power Company  
**Technique:** Airborne dry ice seeding  
**Time Period:** 1976 -1977  
**Goal:** Enhanced winter precipitation for hydroelectric power production

**Project Area:** Skagit River Drainage, Northern Washington  
**Sponsor:** Seattle City Light Company  
**Technique:** Airborne dry ice seeding  
**Time Period:** 1976 - 1977  
**Goal:** Enhanced winter precipitation for hydroelectric power production

**Project Area:** Lake Spalding Drainage, in the Northern Sierra Nevada of California  
**Sponsor:** Pacific Gas and Electric Company  
**Technique:** Airborne silver iodide seeding  
**Time Period:** 1976 - 1977  
**Goal:** Enhanced winter precipitation for hydroelectric power production

**Project Area:** Heritage and Mona Reservoir Areas, Central Jamaica  
**Sponsor:** Kingston Water Commission  
**Technique:** Airborne silver iodide seeding  
**Time Period:** 1976  
**Goal:** Enhanced summer precipitation for municipal water supplies

**Project Area:** Port of Ensenada, Mexico  
**Sponsor:** Insisa  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1970 - 1976  
**Goal:** Enhanced winter precipitation for municipal water supplies

**Project Area:** Northwestern South Dakota  
**Sponsor:** South Dakota Weather Control Commission  
**Technique:** Airborne silver iodide seeding  
**Time Period:** 1975  
**Goal:** Enhanced summer precipitation and hail suppression for agricultural crops

**Project Area:** Coeur D'Alene Lake Watershed, Northern Idaho  
**Sponsor:** Washington Water and Power Company  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1950-1951; 1952-1960; 1966-1971; 1973-1974  
**Goal:** Enhanced fall - early winter precipitation for hydroelectric power production

**Project Area:** Hungry Horse Reservoir Area, Northwestern Montana  
**Sponsor:** Bonneville Power and Light Company  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1966 - 1971  
**Goal:** Enhanced winter precipitation for hydroelectric power generation

**Project Area:** San Benito County, California  
**Sponsor:** San Benito County  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1964 - 1966  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Owyhee Reservoir, Southwestern Idaho  
**Sponsor:** Board of Control - Owyhee Project  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1954-1956; 1959-1962  
**Goal:** Enhanced winter precipitation for irrigation water supplies

**Project Area:** Ventura County, California  
**Sponsor:** Ventura County  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1957 - 1960  
**Goal:** Enhanced winter precipitation for irrigation and municipal water supplies

**Project Area:** Santa Ana River Basin, California  
**Sponsor:** Santa Ana River Weather Corporation  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1956 - 1960  
**Goal:** Enhanced winter precipitation for municipal water supplies

**Project Area:** Lake Almanor Drainage, in the Northern Sierra Nevada of California  
**Sponsor:** Pacific Gas and Electric Company  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1952 - 1960  
**Goal:** Enhanced winter precipitation for hydroelectric power production

**Project Area:** Mokelumne & Stanislaus Rivers, in the Central Sierra Nevada of California  
**Sponsor:** Pacific Gas and Electric Company  
**Technique:** Ground based silver iodide seeding  
**Time Period:** 1952 - 1960  
**Goal:** Enhanced winter precipitation for hydroelectric power production

**Project Area:** **Campbell River Drainage, British Columbia**  
Sponsor: British Columbia Hydro Company  
Technique: Ground based silver iodide seeding  
Time Period: 1954 - 1960  
Goal: Enhanced winter precipitation for hydroelectric power production

**Project Area:** **Southern Cascades, Oregon**  
Sponsor: California-Oregon Power Company  
Technique: Ground based silver iodide seeding  
Time Period: 1951 - 1960  
Goal Period: Enhanced winter precipitation for hydroelectric power production

**Project Area:** **Crane Valley in the Central Sierra Nevada of California**  
Sponsor: Pacific Gas and Electric Company  
Technique: Ground based silver iodide seeding  
Time Period: 1954 - 1959  
Goal: Enhanced winter precipitation for hydroelectric power production

**Project Area:** **San Diego County, California**  
Sponsor: San Diego County Weather Corporation  
Technique: Ground based silver iodide seeding  
Time Period: 1950-1951; 1956-1957  
Goal: Enhanced winter precipitation for municipal water supplies

**Project Area:** **Ocean Falls, British Columbia**  
Sponsor: Crown-Zellerbach Paper Company  
Technique: Ground based silver iodide seeding  
Time Period: 1955 - 1957  
Goal: Enhanced winter precipitation for hydroelectric power production

**Project Area:** **Decatur and Clarke Counties, Iowa**  
Sponsor: The Decatur County Weather Modification Association  
Technique: Ground based silver iodide seeding  
Time Period: 1957  
Goal: Enhanced summer precipitation for agricultural water supplies

**Project Area:** **Greene, Boone and Story Counties, Iowa**  
Sponsor: Central Iowa Modification Association  
Technique: Ground based silver iodide seeding  
Time Period: 1957  
Goal: Enhanced summer precipitation for agricultural water supplies

**Project Area:** **Dallas County, Iowa**  
Sponsor: Dallas County Weather Modification Group  
Technique: Ground based silver iodide seeding  
Time Period: 1957  
Goal: Enhanced summer precipitation for agricultural water supplies

**Project Area:** **Southeastern Idaho**  
Sponsor: Salmon River Canal Company, Oakley Canal Company, Cedar Mesa Reservoir and Canal Company  
Technique: Ground based silver iodide seeding  
Time Period: 1953 - 1955  
Goal: Enhanced winter precipitation for irrigation water supplies