March Water Supply Meeting –

Idaho Collaborative Cloud Seeding Program Update

March 12, 2024

Matt Roberts

Boise
Operations Center, Idaho Power Headquarters
Aircraft Based at Boise Airport
Mountain Home
Mountain Home AB
Jordan Valley
Grand View
Glenns Ferry
Bliss
Hagerman
Gooding
Shoshone
Dietrich
Richfield
Carey
Fairfield
Hailey
Bellevue
Ketchum
Sun Valley
Featherville
Pine
Emmett
Horseshoe Bend
Payette
Fruitland
New Plymouth
Nyssa
Parma
Notus
Greenleaf
Wilder
Caldwell
Garden City
Nampa
Meridian
Kuna
Melba
Marsing
Homedale
Ontario
Weiser
Council
Cambridge
Midvale
New Meadows
Donnelly
Cascade
McCall
Cottonwood
Challis
Clayton
Mackay
Stanley
Grangeville
Kamiah
Orofino
Lewiston
Moscow
Pullman
Colfax
Pomeroy
Dayton
Walla Walla
Milton-Freewater
Pendleton
Hermiston
Umatilla
Boardman
Ione
Heppner
Condon
Fossil
Prineville
Redmond
Madras
Sisters
Bend
Sunriver
Lakeview
Klamath Falls
Bonanza
Merrill
Tulelake
Alturas
Cedarville
Susanville
Chester
Quincy
Portola
Truckee
Tahoe City
Kingsbury
Gardnerville
Yerington
Fallon
Lovelock
Winnemucca
Gerlach
Jordan Valley
Wendell
Twin Falls
Rupert
Burley
Malta
Oakley
Albion
Elko
Wells
Jackpot
Mountain City
Owyhee
Tuscarora
Battle Mountain
Carlin
Elko
Wells
Jackpot
Mountain City
Owyhee
Tuscarora
Battle Mountain
Carlin
Wendover
Tooele
Grantsville
Ely
Eureka
Austin
Fallon
Yerington
Gardnerville
Minden
Carson City
Reno
Sparks
Fernley
Yerington
Hawthorne
Tonopah
Beatty
Pahrump
Amargosa Valley
Death Valley Junction
Furnace Creek
Stovepipe Wells
Ridgecrest
Trona
Shoshone
Baker
Dagget
Barstow
Yermo
Newberry Springs
Hinkley
Lucerne Valley
Apple Valley
Victorville
Hesperia
Adelanto
Phelan
Pinon Hills
Wrightwood
Cedar City
Parowan
Enterprise
Kanab
Fredonia
Page
Tuba City
Kayenta
Monticello
Blanding
Bluff
Mexican Hat
Moab
Green River
Ferron
Huntington
Castle Dale
Price
Helper
Wellington
Nephi
Fillmore
Delta
Milford
Beaver
Minersville

Cloud Seeding Operations WY2024

	8 Years of Operation (WY2016-23) Nov-Feb			WY2024 Nov-Feb
	Max	Mean	Min	
Central Mountains				
Number of Generator Hours	4385	2085	417	1111
Number of Flight Hours	233	123	42	70
Number of BIPs	1333	593	119	198
Number of EJs	8706	3747	353	1288
Number of Total Days Where Seeding Occurred	68	41	20	23
Number of Days That Ground Seeding Occurred	58	32	13	16
Number of Days That Airborne Seeding Occurred	44	24	11	14

	8 Years of Operation (WY2016-23) Nov-Feb			WY2024 Nov-Feb
	Max	Mean	Min	
Upper Snake				
Number of Generator Hours	2765	1392	441	1138
Number of Flight Hours	111	52	14	25
Number of BIPs	683	254	13	73
Number of EJs	2374	939	0	520
Number of Total Days Where Seeding Occurred	55	32	17	20
Number of Days That Ground Seeding Occurred	47	28	13	15
Number of Days That Airborne Seeding Occurred	32	16	5	6

Cloud Seeding Operations Feb 2024

	8 Years of Operation (WY2016-23) Feb			WY2024 Feb
	Max	Mean	Min	
Central Mountains				
Number of Generator Hours	1143	575	42	138
Number of Flight Hours	57	25	0	10
Number of BIPs	209	102	0	14
Number of EJs	1970	763	0	102
Number of Total Days Where Seeding Occurred	16	9	2	7
Number of Days That Ground Seeding Occurred	14	7	2	6
Number of Days That Airborne Seeding Occurred	9	5	0	4

	8 Years of Operation (WY2016-23) Feb			Feb
	Max	Mean	Min	
Upper Snake				
Number of Generator Hours	713	364	24	210
Number of Flight Hours	25	11	2	13
Number of BIPs	122	40	0	47
Number of EJs	845	240	0	103
Number of Total Days Where Seeding Occurred	15	8	2	6
Number of Days That Ground Seeding Occurred	12	7	2	4
Number of Days That Airborne Seeding Occurred	9	4	1	3

Questions?