

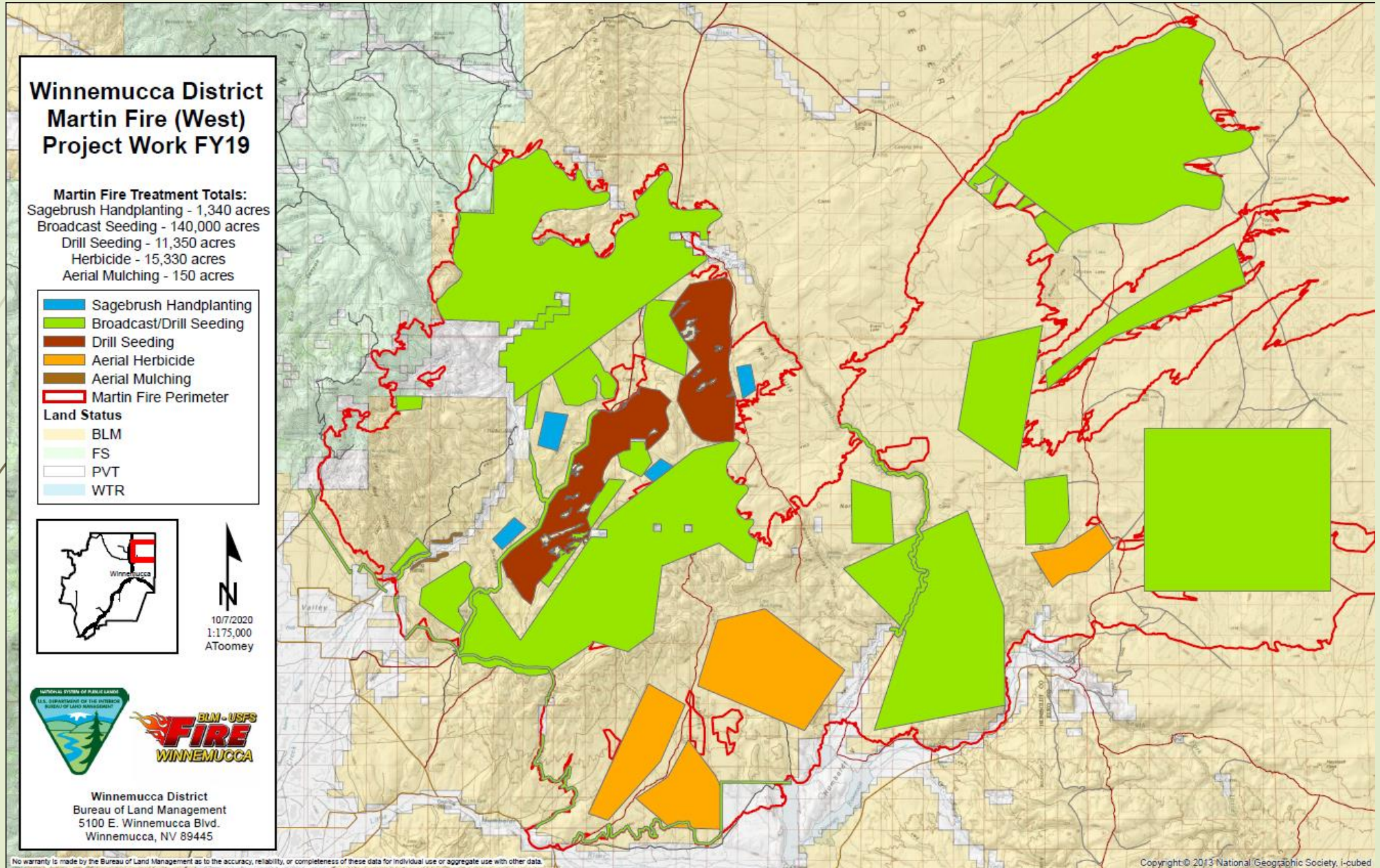


2018 Martin Fire (West) Post Fire Recovery Update

Derek Messmer, Hazardous Fuels and ESR Program Manager

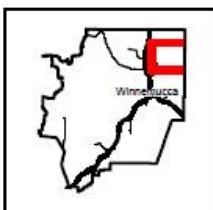
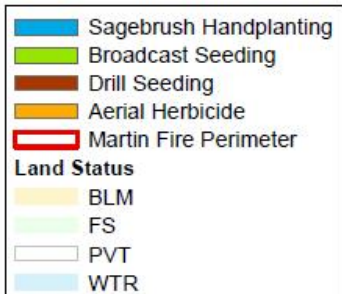
Winnemucca District Office

Completed Treatments



Winnemucca District Martin Fire (West) Project Work FY20

Martin Fire Treatment Totals:
Sagebrush Handplanting - 2,650 acres
Sagebrush Seeding - 112,260 Acres
Broadcast Seeding - 55,000 acres
Drill Seeding - 10,000 acres
Herbicide - 10,400 acres



10/7/2020
1:175,000
AToomey



Winnemucca District
Bureau of Land Management
5100 E. Winnemucca Blvd.
Winnemucca, NV 89445

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FY20 Completed Treatments Summary

ES&R Project Work FY20

Martin Fire Treatments

Herbicide 5,753 acres
Aerial Seeding 30,917 acres
Drill Seeding 10,210 acres
Sagebrush Hand Planting 3,345 acres
Aerial Sagebrush Seeding 112,259 acres
Roadside Greenstrips 2,772 acres

Antelope Fire Treatments

Drill Seeding 976 acres

Gregg Fire Treatments

Drill Seeding 450 acres
Aerial Seeding 1,705 acres

MM155 Fire Treatments

Sagebrush/Kochia Broadcast Seeding 4,218 acres

Rebel Creek Fire Treatments

Drill Seeding 490 acres
Sagebrush Broadcast Seeding 490 acres
Kochia Greenstrip 45 acres

Sheep Canyon Fire

Drill Seeding 800 acres
Broadcast Seeding 750 acres
Sagebrush Broadcast Seeding 1,550 acres

Hazardous Fuels (IPOW and WUI) Project Work FY20

2019 Fires (Non-ESR Funded) Sagebrush Broadcast (IPOW Wildlife Funded)

Sagebrush broadcasting 572 Acres

Buena Vista – Barber Cyn Fire 1985, Rock Hill Fire 1996, Willow Tree Fire 2001

Drill Seeding 1,500 acres
Kochia Broadcast Strips 1,500 acres

Hoppin Peak – Long Canyon Fire 2012

Drill Seeding 1,015 acres
Sagebrush & Kochia Broadcast Strips 1,500 acres

Kings River Valley – Holloway Fire 2012

Sagebrush Handplanting 1,079 acres

Quinn O'dell – Quinn Fire 1996

Broadcast Seeding 1,000 acres
Sagebrush Seeding 1,000 acres

Sagehen Flats – Wilder Fire 1985, Denio Fire 1999

Drill Seeding 4,778 acres
Kochia Broadcast Strips 4,778 acres

Hotsprings Range – Hot Springs Fire 1985 & 2011

Sagebrush Seeding 11,693 acres

Owhyee Fuelbreak Maintenance

Herbicide 806 acres
Mowing 2,500 acres

Montana Mountains Fuelbreak Maintenance

Mowing ~2,500 acres

Winnemucca East Fuelbreak Extension

Mowing 256 acres

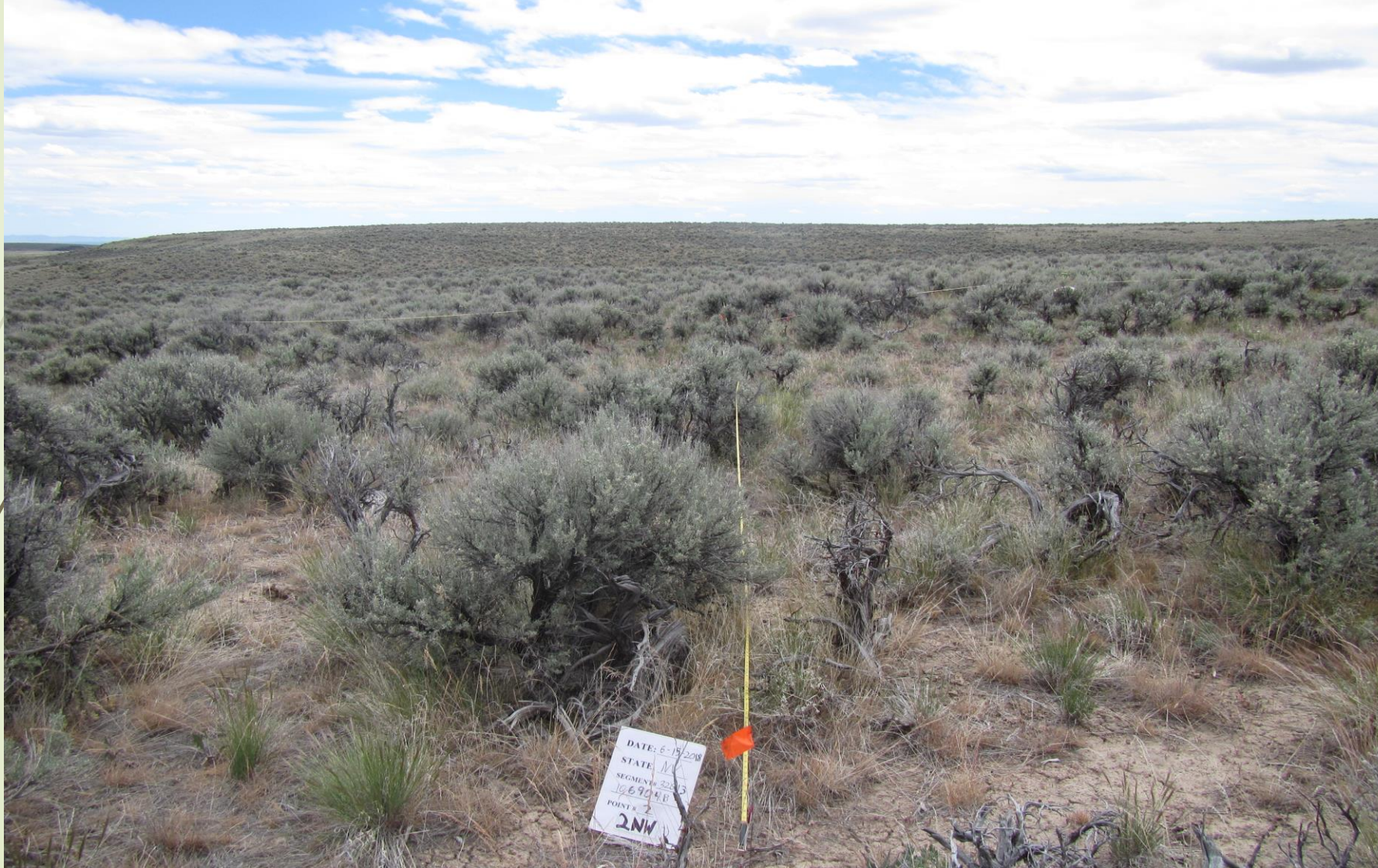
Prince Royal Targeted Grazing

1,500 Acres

Rebel Creek Targeted Grazing

Pre-burn Conditions

Near North Fork Little Humboldt
Wilderness study Area

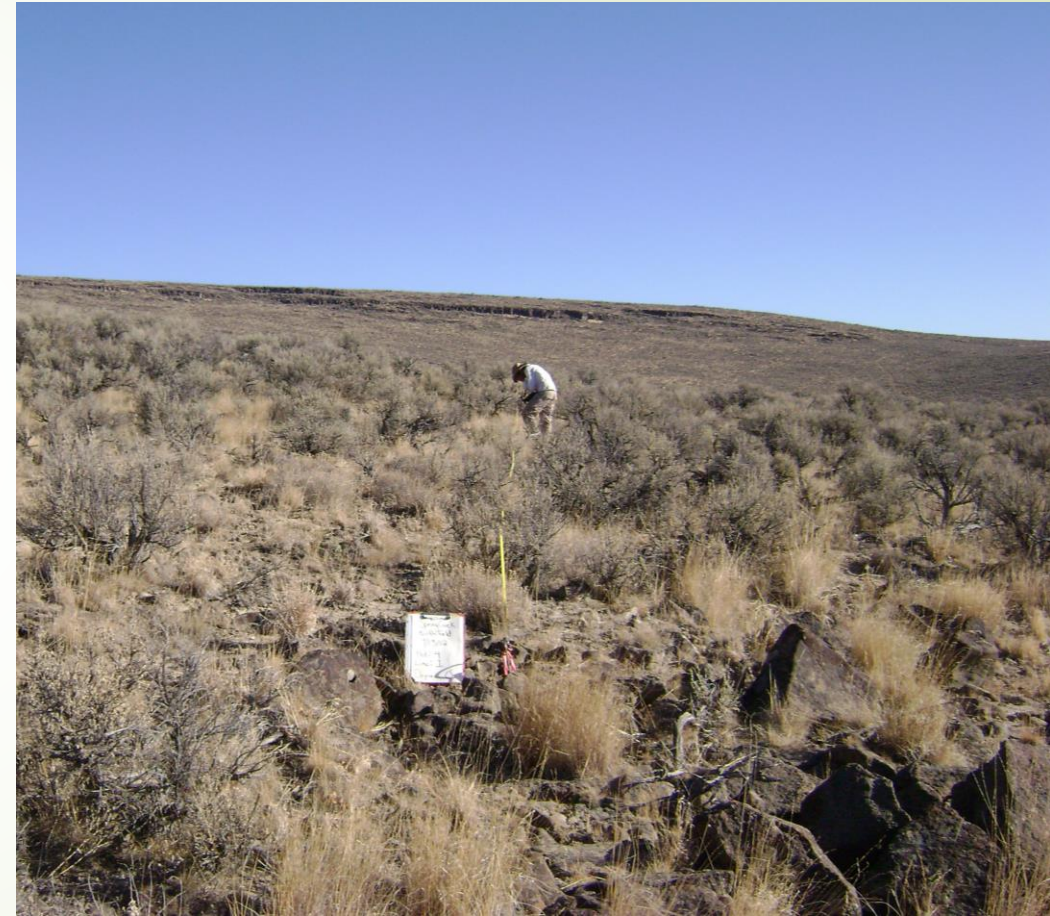
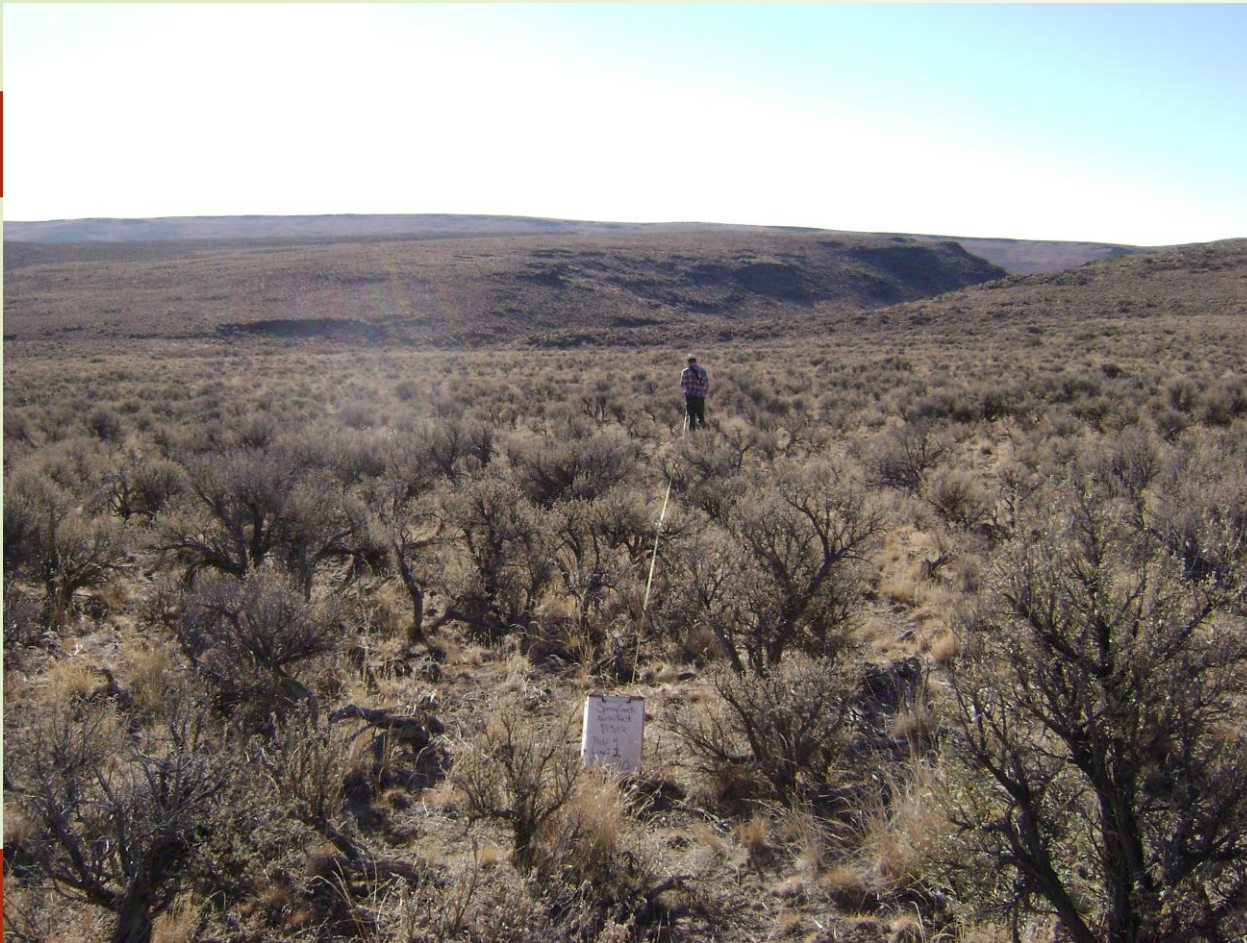


Pre-burn conditions

Sage grouse in roadside mowed fuel break north of Martin Fire - Fall of 2019

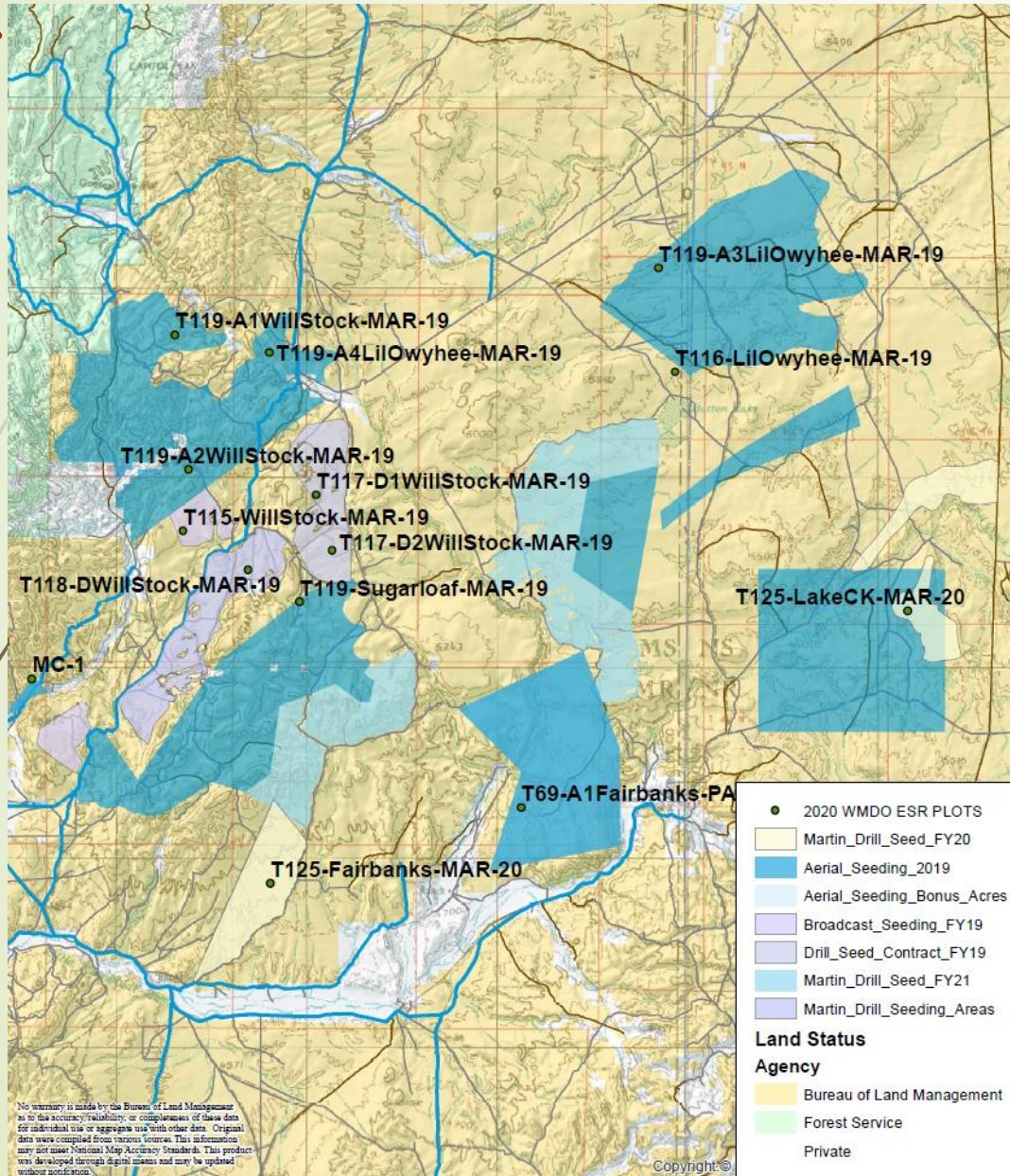


Spring Creek Allotment
Southwestern corner of fire
east of Martin Creek drainage



Pre-burn Conditions

Monitoring Plot Locations



Allotment	Pasture	Site	Northing	Easting
William Stock	Mud Springs	T119-A1WillStock-MAR-19	473069.994	461767.49
William Stock	Charlie Young	T119-A2WillStock-MAR-19	473797.934	461061.14
William Stock	Mud Springs	T118-DWillStock-MAR-19	4605317	476904
William Stock	Central Sagehen	T117-D1WillStock-MAR-19	4609266	480478
William Stock	South Sagehen	T117-D2WillStock-MAR-19	4606347	481319
William Stock	Charlie Young	T115-WillStock-MAR-19	4607373	473489
Buttermilk	Buttermilk native	MC-1	4599590	465534
Sugarloaf	Sugarloaf	T119-Sugarloaf-MAR-19	479592.232	460364.44
Little Owyhee	Antelope West	T119-A4LiOwyhee-MAR-19	478018.98	461673.31
Little Owyhee	Fairbanks	T69-A1Fairbanks-PAR-16	491248	459282.4
Little Owyhee	Twin Valley	T119-A3LiOwyhee-MAR-19	498448.36	462119.06
Little Owyhee	Twin Valley	T116-LiOwyhee_MAR-19	499349.6551	461572.86
Little Owyhee	Fairbanks	T125-Fairbanks-MAR-20	4589587.79375	478499.278293
Little Owyhee	Lake Creek	T125-LakeCK-MAR-20	4603164.5669	511543.042156

2019/2020 Monitoring Data

Percent Perennial Cover

Ecological sites	Plot	Dates monitored			Percent perennial cover			Objective
		2019	2020	2021	2019	2020	2021	ESR
R025XY017NV	T119-A1WillStock-MAR-19	7/24/2019	6/25/2020		43.33	26.66		12.5
	T119-A4LiOwyhee-MAR-19	7/24/2019	7/11/2020		11.33	8.66		10
R025XY018NV	T115-WillStock-MAR-19	7/23/2017	7/8/2020		15.10	13.33		10
	T117-D1WillStock-MAR-19	7/23/2019	7/9/2020		28.00	42.00		10
R025XY019NV	T119-A3LiOwyhee-MAR-19	7/25/2019	7/12/2020		6.60	24.66		10
	T119-Sugarloaf-MAR-19	8/10/2019	7/9/2020		30.00	23.33		10
	T69-A1Fairbanks-PAR-16	7/26/2019	8/21/2020		24.67	21.33		10
	MC-1	7/26/2019	6/24/2020		63.30	31.33		10
	T116-LiOwyhee_MAR-19	7/25/2019	7/12/2020		3.33	12.66		10
	T118-DWillStock-MAR-19	7/22/2019	6/26/2020		30.00	48.00		10
	T117-D2WillStock-MAR-19	7/23/2019	7/10/2020		27.60	29.33		10
	T117-D2WillStock-MAR-19	7/23/2019	7/10/2020		27.60	29.33		10
R025XY022NV	T119-A2WillStock-MAR-19	7/22/2019	7/8/2020		23.33	31.33		5

Plots Established in 2020.

Ecological sites	Plot	Dates monitored			Percent perennial cover			Objective
		2020	2021	2022	2020	2021	2022	ESR
R024XY005NV	T125-Fairbanks-MAR-20	7/25/2020			2.67			10
R025XY019NV	T125-LakeCK-MAR-20	8/20/2020			10			10

Ecological sites	Plot	Dates monitored			Density (plants/m ²)			Objective
		2019	2020	2021	2019	2020	2021	ESR
R025XY017NV	T119-A1WillStock-MAR-19	7/24/2019	6/25/2020		14.53	21.96		1
	T119-A4LiOwyhee-MAR-19	7/24/2019	7/11/2020		15.63	11.96		1
R025XY018NV	T115-WillStock-MAR-19	7/23/2017	7/8/2020		18.40	21.76		1.5
	T117-D1WillStock-MAR-19	7/23/2019	7/9/2020		33.67	19.2		3
R025XY019NV	T119-A3LiOwyhee-MAR-19	7/25/2019	7/12/2020		3.2	4.93		0.5
	T119-Sugarloaf-MAR-19	8/10/2019	7/9/2020		40.1	17.46		0.5
	T69-A1Fairbanks-PAR-16	7/26/2019			18.3	19.2		0.5
	MC-1	7/26/2019	6/24/2020					0.5
	T116-LiOwyhee_MAR-19	7/25/2019	7/12/2020		1.37	4.96		1
	T118-DWillStock-MAR-19	7/22/2019	6/26/2020		22.30	12.63		3
	T117-D2WillStock-MAR-19	7/23/2019	7/10/2020		16.00	25.1		3
	T117-D2WillStock-MAR-19	7/23/2019	7/10/2020		16.00	25.1		3
R025XY022NV	T119-A2WillStock-MAR-19	7/22/2019	7/8/2020		9.3	18.3		1

Plots Established in 2020.

Ecological sites	Plot	Dates monitored			Density (plants/m ²)			Objective
		2020	2021	2022	2020	2021	2022	ESR
R024XY005NV	T125-Fairbanks-MAR-20	7/25/2020			10.23			3
R025XY019NV	T125-LakeCK-MAR-20	8/20/2020			5.3			3

The Good.....



Plot T117-D1

2019



2020



Plot T118-D2

2019



2020



Plot T118-DW

2019



2020

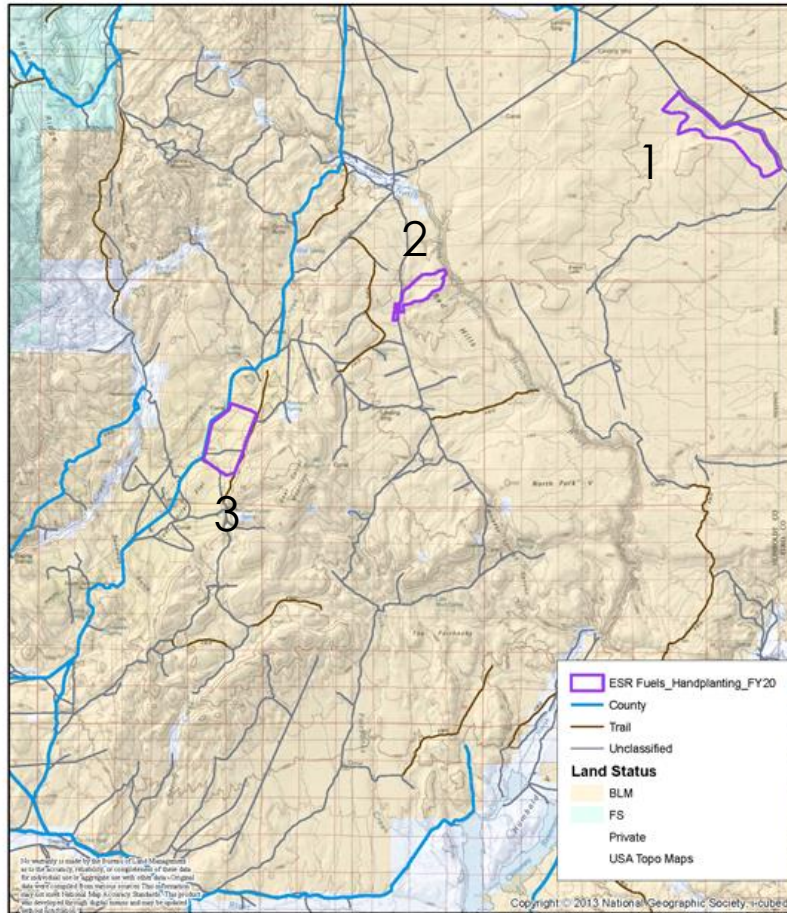
Site: Martin
Date: 06/25/20
Plot ID: T118-DWillStock-MAR-19
Line: 2
Direction: 120



Natural Recovery



Handplanting



The Martin post fire area received 2,240 acres of handplanting in 3 major areas with a total of 246,400 sagebrush seedlings. Most of the seedlings were from the prison growing project, with some from Lucky Peak.

Sagebrush seedling monitoring:

Button lake (1):

First site: 47% percent survival

Second site: 37% survival.

Greeley (2):

Site1: 79% survival

Site2: 58% survival

Goat Corral (3):

Site 1: 62% survival

The Bad.....



Pre-burn Conditions

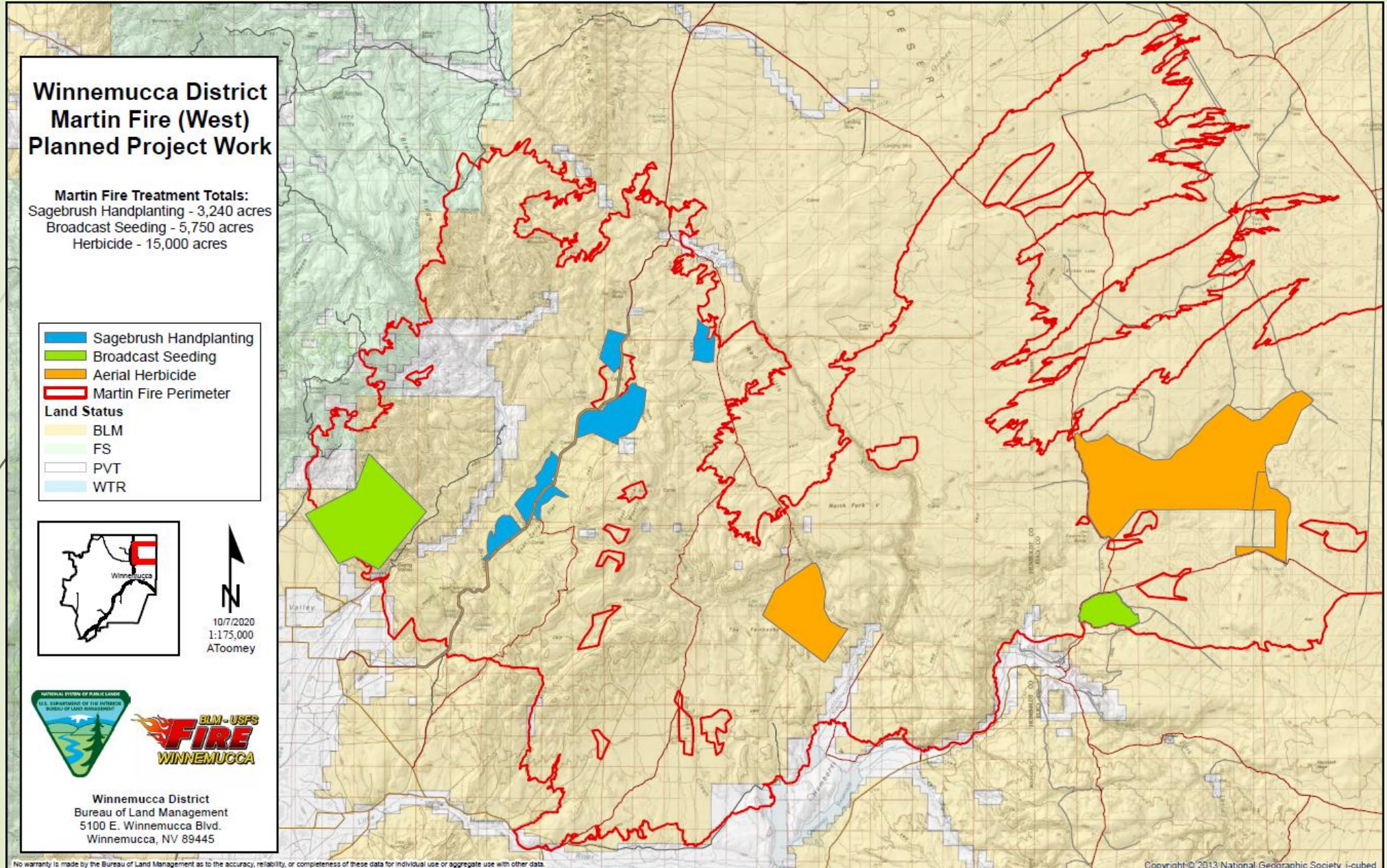
Lake Creek Pasture Area



Little Owyhee Allotment - Lake Creek Pasture, near Elko Border



FY21 Planned Treatments



Additional Work Planned for 2021

2020 Osgood Fire - 1,100 acres of seeding – joint cooperative project with NDOW

2020 Poodle Fire – Roughly 1/3 of seed necessary has been purchased, awaiting funding levels for FY2021 to determine acres to be treated, additionally, NDOW will be completing herbicide treatment on a portion of the fire and an additional 5,000 acres as part of a larger habitat improvement project targeting past fires at the base of the Granite Mountains

2019 Rebel Fire – 800 acres of drill seeding

Hazardous Fuels/Habitat Projects

40,000 planned acres

Targeted grazing and permitted grazing on past fires