

# SageSTEP Fuels Guide

## 10 Years Post-Treatment

Sam Wozniak and Eva Strand

**PRELIMINARY LAYOUT**

# Utah Juniper: Control

## Pre-treatment Phase 1

Greenville Bench	
1804 m   5919 ft	
6/13/2017	
Cover (%)	
Trees	15
Shrubs	19
Perennial Grass	9
Annual Grass	2
Bare Ground	47



Onaqui	
1712 m   5617 ft	
6/28/2016	
Cover (%)	
Trees	3
Shrubs	14
Perennial Grass	8
Annual Grass	<1
Bare Ground	36



# Utah Juniper: Control

## Pre-treatment Phase 1

Variable	Category	Component	10th	Mean	90th
Total Cover (%)	Trees	JUOS	2	8	16
		PIED	0	2	6
	Shrubs	ARTRW8	7	15	24
		CHVI8	0	1	5
	Herbaceous	Perennial Grass	10	18	26
		Annual Grass	<1	9	21
		Forb	1	23	40
	Litter & Duff	Interspace Litter	34	45	57
	Bare Ground	Bare Ground	13	23	35
Density (#/acre)	Trees	JUOS	22	96	200
		PIED	0	15	44
	Shrubs	ARTRW8	1269	2943	5039
		CHVI8	0	840	2902
Height (in)	Shrubs	ARTW8	15	20	26
		CHVI8	10	11	12
	Herbaceous	Grass	5	9	14
		Forb	3	4	5
Fuel Loading (tons/acre)	Shrubs	ARTRW8	1.01	1.99	3.78
		CHVI8	0	<0.01	0
	Herbaceous	Live	0.04	0.12	0.25
		Dead	0	0.02	0.04
	Downed Woody Debris	10-hr	0.15	0.36	0.56
		100-hr	0.19	0.69	1.22
		1000-hr sound	0	0.21	0.69
		1000-hr rotten	0	0.15	0.38
	Litter & Duff	Interspace Litter	0.05	0.15	0.29
		Tree Litter + Duff	1.32	3.08	5.13
Bulk Density (lbs/ft <sup>3</sup> )	Shrubs	ARTRW8	0.0230	0.0348	0.0439
		CHVI8	0		
	Herbaceous	Live + Dead	0.0059	0.0142	0.0287



# Utah Juniper: Prescribed Fire

## Pre-treatment Phase 1

Greenville Bench	
1836 m (6024 ft)	
6/18/2017	
Cover (%)	
Trees	2
Shrubs	17
Perennial Grass	36
Annual Grass	15
Bare Ground	27



Onaqui	
1712 m   5617 ft	
6/28/2016	
Cover (%)	
Trees	3
Shrubs	14
Perennial Grass	8
Annual Grass	<1
Bare Ground	36



# Utah Juniper: Prescribed Fire

## Pre-treatment Phase 1

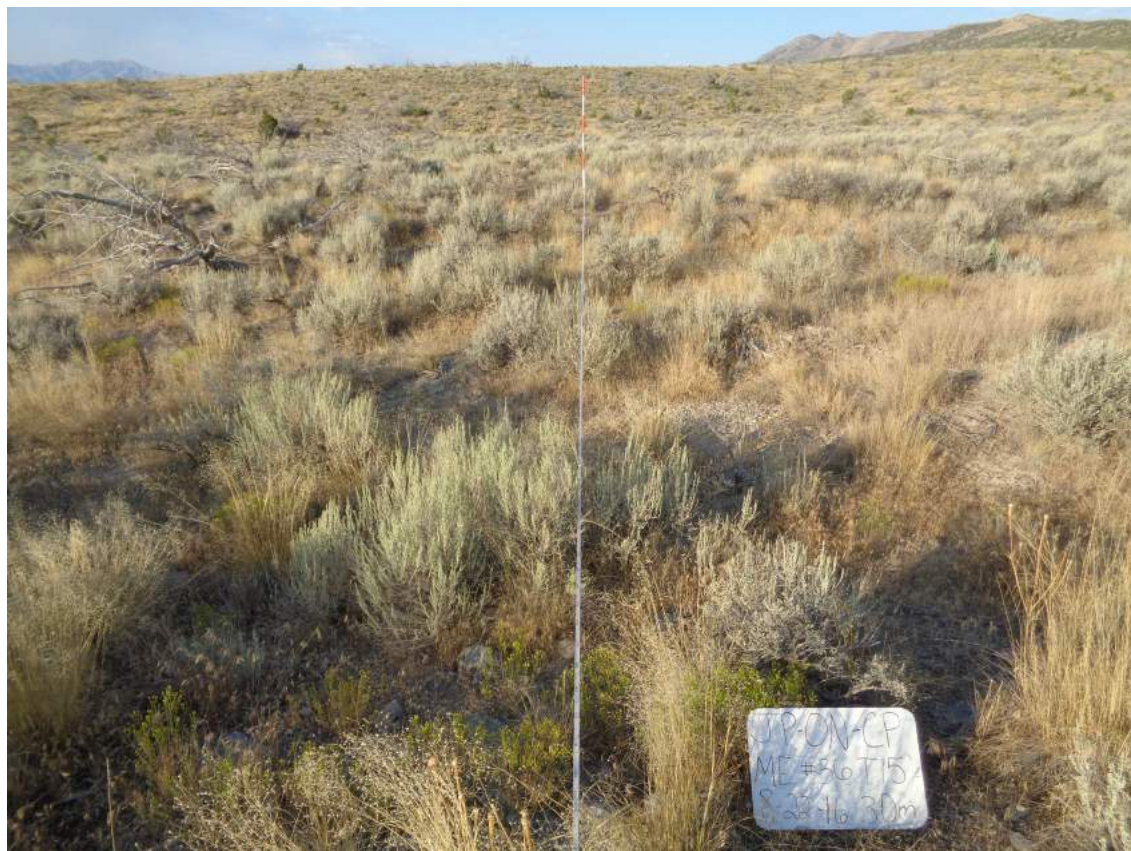
Variable	Category	Component	10th	Mean	90th
Total Cover (%)	Trees	JUOS	0	<1	2
		PIED	0	<1	<1
	Shrubs	ARTRW8	1	5	10
		CHVI8	0	3	9
	Herbaceous	Perennial Grass	12	34	48
		Annual Grass	8	18	32
		Forb	6	26	53
	Litter & Duff	Interspace Litter	39	52	62
	Bare Ground	Bare Ground	9	16	24
Density (#/acre)	Trees	JUOS	0	1	4
		PIED	0	5	28
	Shrubs	ARTRW8	125	2078	5757
		CHVI8	0	1620	4149
Height (in)	Shrubs	ARTW8	13	21	26
		CHVI8	8	11	15
	Herbaceous	Grass	7	9	11
		Forb	1	5	10
Fuel Loading (tons/acre)	Shrubs	ARTRW8	0.07	0.58	1.68
		CHVI8	0	0.07	0.22
	Herbaceous	Live	0.20	0.34	0.52
		Dead	<0.01	0.04	0.07
	Downed Woody Debris	10-hr	0.18	0.34	0.51
		100-hr	0.10	0.52	0.89
		1000-hr sound	0	0.19	0.45
		1000-hr rotten	0	0.08	0.23
	Litter & Duff	Interspace Litter	0.08	0.17	0.27
		Tree Litter + Duff	0	0.07	0.27
Bulk Density (lbs/ft <sup>3</sup> )	Shrubs	ARTRW8	0.0007	0.0108	0.0243
		CHVI8	0	0.0027	0.0092
	Herbaceous	Live + Dead	0.0178	0.0320	0.0525



# Utah Juniper: Cutting

## Pre-treatment Phase 1

Onaqui	
1736 m   5696 ft	
8/22/2016	
Cover (%)	
Trees	0
Shrubs	24
Perennial Grass	19
Annual Grass	36
Bare Ground	21



Scipio	
1750 m   5741 ft	
7/26/2017	
Cover (%)	
Trees	1
Shrubs	26
Perennial Grass	39
Annual Grass	3
Bare Ground	9



# Utah Juniper: Cutting

## Pre-treatment Phase 1

Variable	Category	Component	10th	Mean	90th
Total Cover (%)	Trees	JUOS	0	<1	1
		PIED	0	<1	<1
	Shrubs	ARTRW8	13	19	22
		CHVI8	0	5	13
	Herbaceous	Perennial Grass	19	26	39
		Annual Grass	2	16	36
		Forb	2	19	47
	Litter & Duff	Interspace Litter	36	55	71
	Bare Ground	Bare Ground	8	18	29
Density (#/acre)	Trees	JUOS	4	44	78
		PIED	0	14	57
	Shrubs	ARTRW8	1953	3458	4678
		CHVI8	0	2983	8743
Height (in)	Shrubs	ARTW8	16	22	27
		CHVI8	8	11	15
	Herbaceous	Grass	8	10	15
		Forb	3	4	5
Fuel Loading (tons/acre)	Shrubs	ARTRW8	0.86	2.35	4.31
		CHVI8	0	0.10	0.41
	Herbaceous	Live	0.08	0.16	0.35
		Dead	<0.01	0.04	0.10
	Downed Woody Debris	10-hr	0.12	0.60	1.37
		100-hr	0.39	1.12	2.07
		1000-hr sound	0	0.73	1.56
		1000-hr rotten	0	0.08	0.22
	Litter & Duff	Interspace Litter	0.09	0.20	0.33
		Tree Litter + Duff	<0.01	0.04	0.08
Bulk Density (lbs/ft <sup>3</sup> )	Shrubs	ARTRW8	0.0152	0.0395	0.0746
		CHVI8	0	0.0039	0.0167
	Herbaceous	Live + Dead	0.0106	0.0174	0.0301



# Utah Juniper: Mastication

## Pre-treatment Phase 1

Greenville Bench	
1768 m   5801 ft	
6/29/2017	
Cover (%)	
Trees	<1
Shrubs	16
Perennial Grass	28
Annual Grass	5
Bare Ground	30



Scipio	
1694 m   5558 ft	
7/28/2017	
Cover (%)	
Trees	0
Shrubs	13
Perennial Grass	46
Annual Grass	<1
Bare Ground	21





# Utah Juniper: Mastication **CHANGE**

## Pre-treatment Phase 1

Variable	Category	Component	10th	Mean	90th
<b>Total Cover (%)</b>	Trees	JUOS	0	<1	1
		PIED	0	<1	<1
	Shrubs	ARTRW8	13	19	22
		CHVI8	0	5	13
	Herbaceous	Perennial Grass	19	26	39
		Annual Grass	2	16	36
		Forb	2	19	47
	Litter & Duff	Interspace Litter	36	55	71
	Bare Ground	Bare Ground	8	18	29
<b>Density (#/acre)</b>	Trees	JUOS	4	44	78
		PIED	0	14	57
	Shrubs	ARTRW8	1953	3458	4678
		CHVI8	0	2983	8743
<b>Height (in)</b>	Shrubs	ARTW8	16	22	27
		CHVI8	8	11	15
	Herbaceous	Grass	8	10	15
		Forb	3	4	5
<b>Fuel Loading (tons/acre)</b>	Shrubs	ARTRW8	0.86	2.35	4.31
		CHVI8	0	0.10	0.41
	Herbaceous	Live	0.08	0.16	0.35
		Dead	<0.01	0.04	0.10
	Downed Woody Debris	10-hr	0.12	0.60	1.37
		100-hr	0.39	1.12	2.07
		1000-hr sound	0	0.73	1.56
		1000-hr rotten	0	0.08	0.22
	Litter & Duff	Interspace Litter	0.09	0.20	0.33
		Tree Litter + Duff	<0.01	0.04	0.08
<b>Bulk Density (lbs/ft<sup>3</sup>)</b>	Shrubs	ARTRW8	0.0152	0.0395	0.0746
		CHVI8	0	0.0039	0.0167
	Herbaceous	Live + Dead	0.0106	0.0174	0.0301

# Utah Juniper: Photo Series **CHANGE**

## Pre-treatment Phase 1: Mastication

Pre-treatment Scipio 1736 m   5696 ft 8/22/2016
Cover (%)
Trees
Shrubs
Perennial Grass
Annual Grass
Bare Ground



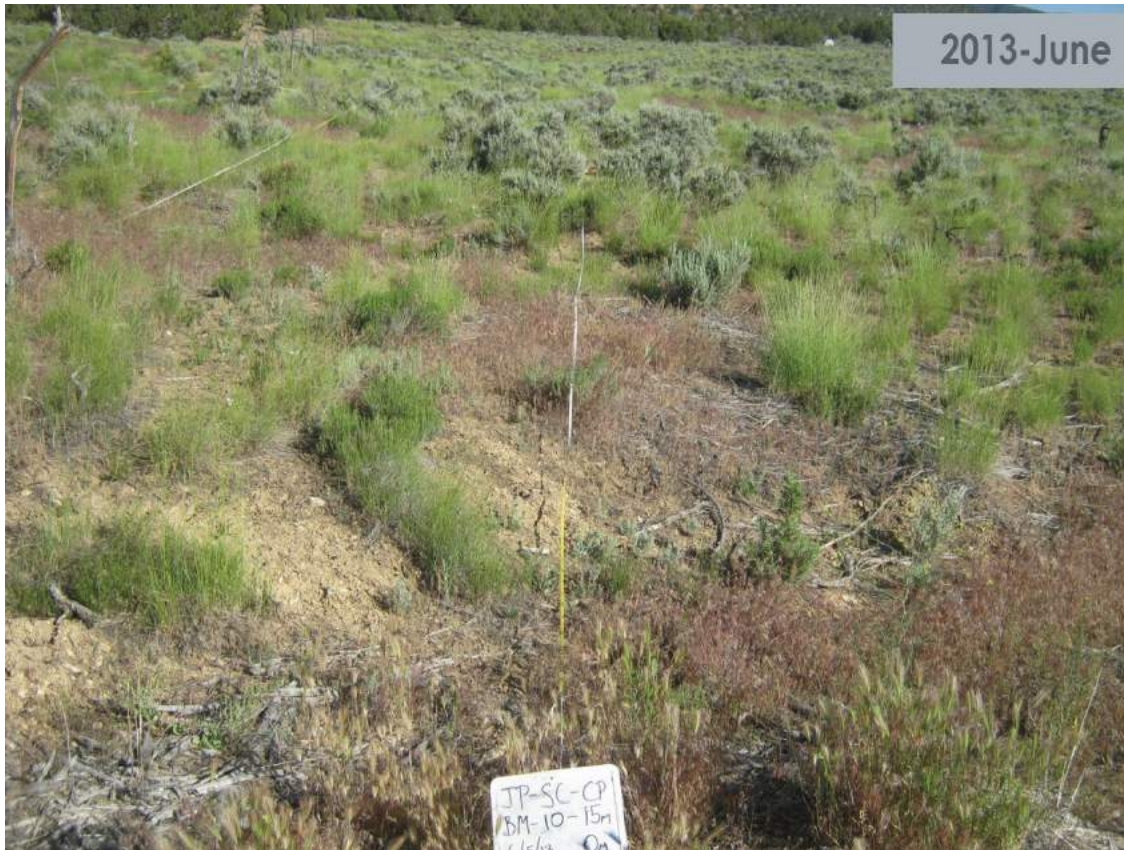
3 Years Post 6/28/2010 Cover (%)
Trees
Shrubs
Perennial Grass
Annual Grass
Bare Ground





# Utah Juniper: Photo Series **CHANGE**

## Pre-treatment Phase 1: Mastication



6 Years Post
Cover (%)
Trees
Shrubs
Perennial Grass
Annual Grass
Bare Ground



10 Years Post
7/29/17
Cover (%)
Trees
Shrubs
Perennial Grass
Annual Grass
Bare Ground



# Utah Juniper: Control

## Pre-treatment Phase 2

Onaqui	
1712 m   5617 ft	
6/26/2016	
Cover (%)	
Trees	18
Shrubs	7
Perennial Grass	15
Annual Grass	<1
Bare Ground	33



Scipio	
1753 m   5751 ft	
7/2/2017	
Cover (%)	
Trees	34
Shrubs	10
Perennial Grass	10
Annual Grass	15
Bare Ground	23





# Utah Juniper: Control

## Pre-treatment Phase 2

Variable	Category	Component	10th	Mean	90th
Total Cover (%)	Trees	JUOS	12	18	23
		PIED	0	5	17
	Shrubs	ARTRW8	2	8	16
		CHVI8	0	<1	3
	Herbaceous	Perennial Grass	7	14	23
		Annual Grass	0.7	5	13
		Forb	3	20	35
	Litter & Duff	Interspace Litter	36	49	62
	Bare Ground	Bare Ground	13	27	41
Density (#/acre)	Trees	JUOS	55	126	185
		PIED	0	60	198
	Shrubs	ARTRW8	545	1373	2298
		CHVI8	0	670	2418
Height (in)	Shrubs	ARTW8	12	20	27
		CHVI8	8	9	11
	Herbaceous	Grass	4	7	11
		Forb	2	3	5
Fuel Loading (tons/acre)	Shrubs	ARTRW8	0.08	0.73	1.79
		CHVI8	0	<0.01	<0.01
	Herbaceous	Live	0.02	0.07	0.15
		Dead	0	0.02	0.04
	Downed Woody Debris	10-hr	0.11	0.31	0.56
		100-hr	0.18	0.56	0.99
		1000-hr sound	0	0.16	0.37
		1000-hr rotten	0	0.06	0.22
	Litter & Duff	Interspace Litter	0.02	0.24	0.48
		Tree Litter + Duff	3.90	7.90	11.71
Bulk Density (lbs/ft <sup>3</sup> )	Shrubs	ARTRW8	0.0021	0.0143	0.0318
		CHVI8	0	0.0001	0.0002
	Herbaceous	Live + Dead	0.0050	0.0108	0.0178

# Utah Juniper: Prescribed Fire

## Pre-treatment Phase 2

Onaqui	
1712 m   5617 ft	
7/14/2017	
Cover (%)	
Trees	0
Shrubs	12
Perennial Grass	26
Annual Grass	17
Bare Ground	21



Scipio	
1742 m   5715 ft	
7/2/2017	
Cover (%)	
Trees	<1
Shrubs	5
Perennial Grass	24
Annual Grass	14
Bare Ground	5





# Utah Juniper: Prescribed Fire

## Pre-treatment Phase 2

Variable	Category	Component	10th	Mean	90th
Total Cover (%)	Trees	JUOS	0	<1	3
		PIED	0	<1	2
	Shrubs	ARTRW8	0	3	8
		CHVI8	0	3	7
	Herbaceous	Perennial Grass	20	33	47
		Annual Grass	11	21	29
		Forb	4	29	56
	Litter & Duff	Interspace Litter	29	50	65
	Bare Ground	Bare Ground	8	15	25
Density (#/acre)	Trees	JUOS	0	17	39
		PIED	0	11	31
	Shrubs	ARTRW8	45	1462	4837
		CHVI8	0	1324	3021
Height (in)	Shrubs	ARTW8	12	20	26
		CHVI8	10	12	14
	Herbaceous	Grass	8	11	15
		Forb	2	5	5
Fuel Loading (tons/acre)	Shrubs	ARTRW8	<0.01	0.42	1.39
		CHVI8	0	0.04	0.20
	Herbaceous	Live	0.15	0.28	0.45
		Dead	0.01	0.06	0.09
	Downed Woody Debris	10-hr	0.27	0.57	1.19
		100-hr	0.39	1.12	2.02
		1000-hr sound	0	0.58	1.43
		1000-hr rotten	0	0.06	0.22
	Litter & Duff	Interspace Litter	0.07	0.17	0.35
		Tree Litter + Duff	0	0.17	0.55
Bulk Density (lbs/ft <sup>3</sup> )	Shrubs	ARTRW8	0.0004	0.0093	0.0250
		CHVI8	0	0.0014	0.0073
	Herbaceous	Live + Dead	0.0139	0.0264	0.0380

# Utah Juniper: Cutting

## Pre-treatment Phase 2

Greenville Bench	
1785 m   5856 ft	
6/20/2017	
Cover (%)	
Trees	<1
Shrubs	27
Perennial Grass	26
Annual Grass	11
Bare Ground	18



Scipio	
1750 m   5741 ft	
7/25/2017	
Cover (%)	
Trees	<1
Shrubs	29
Perennial Grass	16
Annual Grass	7
Bare Ground	9





# Utah Juniper: Cutting

## Pre-treatment Phase 2

Variable	Category	Component	10th	Mean	90th
Total Cover (%)	Trees	JUOS	<1	<1	1
		PIED	0	<1	<1
	Shrubs	ARTRW8	6	16	25
		CHVI8	0	4	10
	Herbaceous	Perennial Grass	16	27	34
		Annual Grass	2	11	23
		Forb	2	19	39
	Litter & Duff	Interspace Litter	37	52	71
	Bare Ground	Bare Ground	9	18	28
Density (#/acre)	Trees	JUOS	19	81	152
		PIED	0	20	38
	Shrubs	ARTRW8	1095	3285	5868
		CHVI8	0	1819	3902
Height (in)	Shrubs	ARTW8	14	21	30
		CHVI8	10	12	13
	Herbaceous	Grass	7	9	14
		Forb	2	5	8
Fuel Loading (tons/acre)	Shrubs	ARTRW8	0.43	1.91	3.79
		CHVI8	0	0.05	0.21
	Herbaceous	Live	0.09	0.19	0.31
		Dead	<0.01	0.04	0.07
	Downed Woody Debris	10-hr	0.34	0.63	1.02
		100-hr	0.76	1.43	2.40
		1000-hr sound	0.13	1.78	3.62
		1000-hr rotten	0	0.10	0.21
	Litter & Duff	Interspace Litter	0.05	0.20	0.35
		Tree Litter + Duff	0.02	0.14	0.23
Bulk Density (lbs/ft <sup>3</sup> )	Shrubs	ARTRW8	0.0130	0.0350	0.0527
		CHVI8	0	0.0021	0.0081
	Herbaceous	Live + Dead	0.0084	0.0199	0.0313

# Utah Juniper: Mastication

## Pre-treatment Phase 2

Greenville Bench	
1768 m   5801 ft	
6/29/2017	
Cover (%)	
Trees	2
Shrubs	7
Perennial Grass	42
Annual Grass	22
Bare Ground	14



Onaqui	
1704 m   5591 ft	
8/23/2016	
Cover (%)	
Trees	<1
Shrubs	20
Perennial Grass	22
Annual Grass	2
Bare Ground	33





# Utah Juniper: Mastication **CHANGE**

## Pre-treatment Phase 2

Variable	Category	Component	10th	Mean	90th
<b>Total Cover (%)</b>	Trees	JUOS	2	8	16
		PIED	0	2	6
	Shrubs	ARTRW8	7	15	24
		CHVI8	0	1	5
	Herbaceous	Perennial Grass	10	18	26
		Annual Grass	<1	9	21
		Forb	1	23	40
	Litter & Duff	Interspace Litter	34	45	57
	Bare Ground	Bare Ground	13	23	35
<b>Density (#/acre)</b>	Trees	JUOS	22	96	200
		PIED	0	15	44
	Shrubs	ARTRW8	1269	2943	5039
		CHVI8	0	840	2902
<b>Height (in)</b>	Shrubs	ARTW8	15	20	26
		CHVI8	10	11	12
	Herbaceous	Grass	5	9	14
		Forb	3	4	5
<b>Fuel Loading (tons/acre)</b>	Shrubs	ARTRW8	1.01	1.99	3.78
		CHVI8	0	<0.01	0
	Herbaceous	Live	0.04	0.12	0.25
		Dead	0	0.02	0.04
	Downed Woody Debris	10-hr	0.15	0.36	0.56
		100-hr	0.19	0.69	1.22
		1000-hr sound	0	0.21	0.69
		1000-hr rotten	0	0.15	0.38
	Litter & Duff	Interspace Litter	0.05	0.15	0.29
		Tree Litter + Duff	1.32	3.08	5.13
<b>Bulk Density (lbs/ft<sup>3</sup>)</b>	Shrubs	ARTRW8	0.0230	0.0348	0.0439
		CHVI8	0		
	Herbaceous	Live + Dead	0.0059	0.0142	0.0287

# Utah Juniper: Control

## Pre-treatment Phase 3

Greenville Bench	
1804 m   5919 ft	
6/15/2017	
Cover (%)	
Trees	42
Shrubs	<1
Perennial Grass	0
Annual Grass	0
Bare Ground	39



Scipio	
1753 m   5751 ft	
7/1/2017	
Cover (%)	
Trees	29
Shrubs	1
Perennial Grass	2
Annual Grass	2
Bare Ground	34





# Utah Juniper: Control

## Pre-treatment Phase 3

Variable	Category	Component	10th	Mean	90th
Total Cover (%)	Trees	JUOS	13	26	40
		PIED	0	13	35
	Shrubs	ARTRW8	<1	3	5
		CHVI8	0	<1	1
	Herbaceous	Perennial Grass	2	9	19
		Annual Grass	0	2	4
		Forb	1	13	22
	Litter & Duff	Interspace Litter	40	51	58
	Bare Ground	Bare Ground	22	33	40
Density (#/acre)	Trees	JUOS	68	160	285
		PIED	0	113	329
	Shrubs	ARTRW8	195	881	1435
		CHVI8	0	450	1481
Height (in)	Shrubs	ARTW8	13	17	22
		CHVI8	7	8	9
	Herbaceous	Grass	4	5	6
		Forb	1	3	4
Fuel Loading (tons/acre)	Shrubs	ARTRW8	0.03	0.24	0.48
		CHVI8	0	<0.01	<0.01
	Herbaceous	Live	<0.01	0.08	0.08
		Dead	0	<0.01	0.02
	Downed Woody Debris	10-hr	0.11	0.27	0.52
		100-hr	0.02	0.42	0.73
		1000-hr sound	0	0.10	0.24
		1000-hr rotten	0	0.21	0.42
	Litter & Duff	Interspace Litter	0.04	0.27	0.50
		Tree Litter + Duff	7.71	10.20	13.48
Bulk Density (lbs/ft <sup>3</sup> )	Shrubs	ARTRW8	0.0011	0.0062	0.0105
		CHVI8	0	<0.0001	<0.0001
	Herbaceous	Live + Dead	0.0009	0.0132	0.0185

# Utah Juniper: Prescribed Fire

## Pre-treatment Phase 3

Onaqui	
1712 m   5617 ft	
7/17/2016	
Cover (%)	
Trees	2
Shrubs	7
Perennial Grass	31
Annual Grass	15
Bare Ground	31



Scipio	
1742 m   5715 ft	
7/3/2017	
Cover (%)	
Trees	1
Shrubs	1
Perennial Grass	2
Annual Grass	33
Bare Ground	8





# Utah Juniper: Prescribed Fire

## Pre-treatment Phase 3

Variable	Category	Component	10th	Mean	90th
Total Cover (%)	Trees	JUOS	1	5	8
		PIED	0	5	15
	Shrubs	ARTRW8	<1	2	6
		CHVI8	0	<1	2
	Herbaceous	Perennial Grass	10	25	36
		Annual Grass	9	25	46
		Forb	6	25	46
	Litter & Duff	Interspace Litter	40	55	65
	Bare Ground	Bare Ground	7	16	28
Density (#/acre)	Trees	JUOS	12	51	80
		PIED	0	35	115
	Shrubs	ARTRW8	32	1004	2548
		CHVI8	0	407	1617
Height (in)	Shrubs	ARTW8	14	19	27
		CHVI8	10	12	15
	Herbaceous	Grass	9	12	17
		Forb	3	5	8
Fuel Loading (tons/acre)	Shrubs	ARTRW8	0	0.29	0.69
		CHVI8	0	<0.01	<0.01
	Herbaceous	Live	0.08	0.22	0.36
		Dead	<0.01	0.05	0.11
	Downed Woody Debris	10-hr	0.33	0.69	1.26
		100-hr	0.59	2.02	4.68
		1000-hr sound	0.20	0.92	1.97
		1000-hr rotten	0	0.04	0.15
	Litter & Duff	Interspace Litter	0.05	0.20	0.44
		Tree Litter + Duff	0.13	1.42	3.70
Bulk Density (lbs/ft <sup>3</sup> )	Shrubs	ARTRW8	0	0.0044	0.0085
		CHVI8	0	0.0002	0.0003
	Herbaceous	Live + Dead	0.0091	0.0186	0.0308

# Utah Juniper: Cutting

## Pre-treatment Phase 3

Greenville Bench	
1785 m   5856 ft	
6/27/2017	
Cover (%)	
Trees	<1
Shrubs	17
Perennial Grass	44
Annual Grass	26
Bare Ground	6



Onaqui	
1736 m   5696 ft	
8/20/2016	
Cover (%)	
Trees	<1
Shrubs	15
Perennial Grass	29
Annual Grass	1
Bare Ground	33





# Utah Juniper: Cutting

## Pre-treatment Phase 3

Variable	Category	Component	10th	Mean	90th
Total Cover (%)	Trees	JUOS	<1	1	2
		PIED	0	<1	<1
	Shrubs	ARTRW8	0	4	12
		CHVI8	0	2	6
	Herbaceous	Perennial Grass	26	33	42
		Annual Grass	1	15	29
		Forb	5	18	39
	Litter & Duff	Interspace Litter	37	48	59
	Bare Ground	Bare Ground	11	18	23
Density (#/acre)	Trees	JUOS	39	116	224
		PIED	0	38	124
	Shrubs	ARTRW8	23	965	2026
		CHVI8	0	767	2235
Height (in)	Shrubs	ARTW8	13	17	22
		CHVI8	9	10	11
	Herbaceous	Grass	7	10	12
		Forb	4	5	6
Fuel Loading (tons/acre)	Shrubs	ARTRW8	0	0.43	0.69
		CHVI8	0	0.03	0.04
	Herbaceous	Live	0.13	0.34	0.63
		Dead	0.03	0.10	0.18
	Downed Woody Debris	10-hr	0.42	0.87	1.31
		100-hr	1.11	2.16	3.36
		1000-hr sound	2.17	5.55	10.95
		1000-hr rotten	0	0.13	0.26
	Litter & Duff	Interspace Litter	0.09	0.18	0.28
		Tree Litter + Duff	0.02	0.22	0.67
Bulk Density (lbs/ft <sup>3</sup> )	Shrubs	ARTRW8	0	0.0087	0.0204
		CHVI8	0	0.0011	0.0016
	Herbaceous	Live + Dead	0.0162	0.0370	0.0610

# Utah Juniper: Mastication

## Pre-treatment Phase 3

Onaqui	
1704 m   5591 ft	
9/18/2016	
Cover (%)	
Trees	<1
Shrubs	11
Perennial Grass	34
Annual Grass	7
Bare Ground	22



Scipio	
1694 m   5558 ft	
7/27/2017	
Cover (%)	
Trees	<1
Shrubs	16
Perennial Grass	21
Annual Grass	1
Bare Ground	28





# Utah Juniper: Mastication **CHANGE**

## Pre-treatment Phase 3

Variable	Category	Component	10th	Mean	90th
<b>Total Cover (%)</b>	Trees	JUOS	2	8	16
		PIED	0	2	6
	Shrubs	ARTRW8	7	15	24
		CHVI8	0	1	5
	Herbaceous	Perennial Grass	10	18	26
		Annual Grass	<1	9	21
		Forb	1	23	40
	Litter & Duff	Interspace Litter	34	45	57
	Bare Ground	Bare Ground	13	23	35
<b>Density (#/acre)</b>	Trees	JUOS	22	96	200
		PIED	0	15	44
	Shrubs	ARTRW8	1269	2943	5039
		CHVI8	0	840	2902
<b>Height (in)</b>	Shrubs	ARTW8	15	20	26
		CHVI8	10	11	12
	Herbaceous	Grass	5	9	14
		Forb	3	4	5
<b>Fuel Loading (tons/acre)</b>	Shrubs	ARTRW8	1.01	1.99	3.78
		CHVI8	0	<0.01	0
	Herbaceous	Live	0.04	0.12	0.25
		Dead	0	0.02	0.04
	Downed Woody Debris	10-hr	0.15	0.36	0.56
		100-hr	0.19	0.69	1.22
		1000-hr sound	0	0.21	0.69
		1000-hr rotten	0	0.15	0.38
	Litter & Duff	Interspace Litter	0.05	0.15	0.29
		Tree Litter + Duff	1.32	3.08	5.13
<b>Bulk Density (lbs/ft<sup>3</sup>)</b>	Shrubs	ARTRW8	0.0230	0.0348	0.0439
		CHVI8	0		
	Herbaceous	Live + Dead	0.0059	0.0142	0.0287