SageSTEP Fuels Guide 10 Years Post-Treatment

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PRELIMINARY LAYOUT

Utah Juniper: Control Pre-treatment Phase 1

Greenville Bench		
1804 m 59 6/13/201		
Cover (%	6)	
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 8 Grass 8 Annual Crass 14 Bare 36 Ground 36



Utah Juniper: Control Pre-treatment Phase 1

Variable	Category	Component	10th	Mean	90th
	Trees	JUOS	2	8	16
	i ilees	PIED	0	2	6
	Shrubs	ARTRW8	7	15	24
Total Carren	Siliubs	CHVI8	0	1	5
Total Cover (%)		Perennial Grass	10	18	26
(70)	Herbaceous	Annual Grass	<1	9	21
		Forb	1	23	40
	Litter & Duff	Interspace Litter	34	45	57
	Bare Ground	Bare Ground	13	23	35
	Trees	JUOS	22	96	200
Density	11003	PIED	0	15	44
(#/acre)	Shrubs	ARTRW8	1269	2943	5039
	Officials	CHVI8	0	840	2902
	Shrubs	ARTW8	15	20	26
Height		CHVI8	10	11	12
(in)	Herbaceous	Grass	5	9	14
		Forb	3	4	5
	Shrubs	ARTRW8	1.01	1.99	3.78
		CHVI8	0	<0.01	0
	Herbaceous	Live	0.04	0.12	0.25
	Tierbaceous	Dead	0	0.02	0.04
Fuel Loading		10-hr	0.15	0.36	0.56
(tons/acre)	Downed	100-hr	0.19	0.69	1.22
	Woody Debris	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
	Litter & Duil	Tree Litter + Duff	1.32	3.08	5.13
Dulle Danaid	Shrubs	ARTRW8	0.0230	0.0348	0.0439
Bulk Density (lbs/ft³)	Snrubs	CHVI8		0	
(IDS/IL)	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 (%	6)	
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 8 Grass 8 Annual Crass <1 Bare Ground 36



Utah Juniper: Prescribed Fire Pre-treatment Phase 1

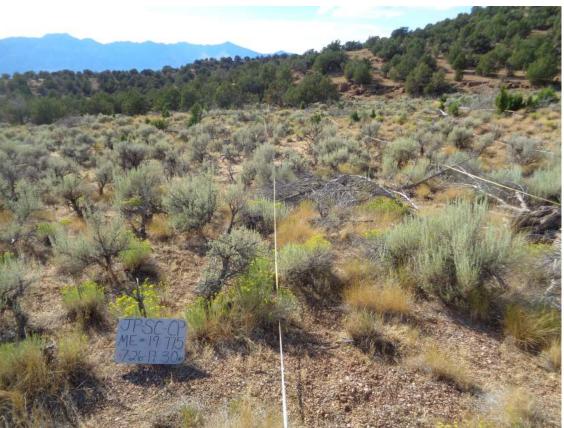
Category	Component	10th	Mean	90th
Traca	JUOS	0	<1	2
rrees	PIED	0	<1	<1
Charles	ARTRW8	1	5	10
Shrubs	CHVI8	0	3	9
	Perennial Grass	12	34	48
Herbaceous	Annual Grass	8	18	32
	Forb	6	26	53
Litter & Duff	Interspace Litter	39	52	62
Bare Ground	Bare Ground	9	16	24
Troop	JUOS	0	1	4
rrees	PIED	0	5	28
Chruba	ARTRW8	125	2078	5757
Snrubs	CHVI8	0	1620	4149
Shrubs	ARTW8	13	21	26
	CHVI8	8	11	15
Herbaceous	Grass	7	9	11
	Forb	1	5	10
Shrubs	ARTRW8	0.07	0.58	1.68
	CHVI8	0	0.07	0.22
I I a wha a a a a	Live	0.20	0.34	0.52
Herbaceous	Dead	<0.01	0.04	0.07
	10-hr	0.18	0.34	0.51
Downed	100-hr	0.10	0.52	0.89
Woody Debris	1000-hr sound	0	0.19	0.45
	1000-hr rotten	0	0.08	0.23
Littor & Duff	Interspace Litter	0.08	0.17	0.27
Litter & Duil	Tree Litter + Duff	0	0.07	0.27
Chruba	ARTRW8	0.0007	0.0108	0.0243
Siliubs	CHVI8	0	0.0027	0.0092
Herbaceous	Live + Dead	0.0178	0.0320	0.0525
	Trees Shrubs Herbaceous Litter & Duff Bare Ground Trees Shrubs Shrubs Herbaceous Shrubs Herbaceous Litter & Duff Litter & Duff Shrubs	Trees JUOS PIED ARTRW8 CHVI8 Perennial Grass Annual Grass Forb Litter & Duff Interspace Litter Bare Ground JUOS PIED ARTRW8 CHVI8 CHVI8 ARTW8 CHVI8 CHVI8 CHVI8 CHVI8 CHVI8 Live Dead Downed Live Downed To0-hr Woody Debris 1000-hr sound Litter & Duff Interspace Litter Tree Litter + Duff ARTRW8 CHVI8 CHVI8	Trees JUOS PIED 0 Shrubs ARTRW8 1 CHVI8 0 Perennial Grass 12 Annual Grass 8 Forb 6 Litter & Duff Interspace Litter 39 Bare Ground 9 JUOS 0 PIED 0 ARTRW8 125 CHVI8 0 ARTW8 13 CHVI8 8 Grass 7 Forb 1 ARTRW8 0.07 CHVI8 0 Herbaceous Live 0.20 Dead <0.01	Trees JUOS PIED 0 <1 Shrubs ARTRW8 1 5 CHVI8 0 3 Perennial Grass 12 34 Herbaceous Perennial Grass 8 18 Forb 6 26 Litter & Duff Interspace Litter 39 52 Bare Ground 9 16 Trees JUOS 0 1 PIED 0 5 ARTRW8 125 2078 CHVI8 0 1620 Shrubs ARTW8 13 21 CHVI8 8 11 Herbaceous Grass 7 9 Forb 1 5 ARTRW8 0.07 0.58 CHVI8 0 0.07 Herbaceous Live 0.20 0.34 Dead <0.01

Utah Juniper: Cutting Pre-treatment Phase 1

Onaqui			
1736 m 5696 ft 8/22/2016			
Cover (%	6)		
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 39 Grass 3 Annual 3 Grass 9 Ground



Utah Juniper: Cutting Pre-treatment Phase 1

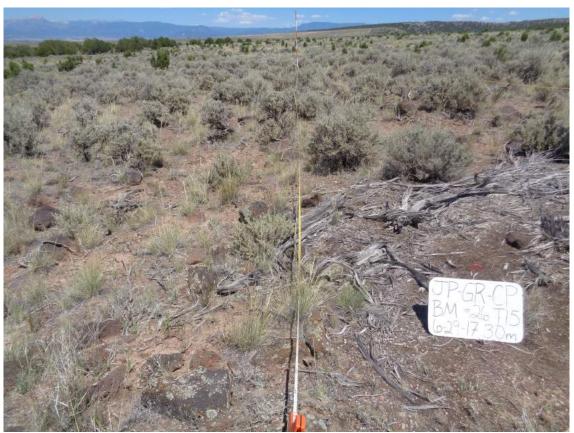
Variable	Category	Component	10th	Mean	90th
	T	JUOS	0	<1	1
	Trees	PIED	0	<1	<1
	Shrubs	ARTRW8	13	19	22
	Siliubs	CHVI8	0	5	13
Total Cover (%)		Perennial Grass	19	26	39
(70)	Herbaceous	Annual Grass	2	16	36
		Forb	2	19	47
	Litter & Duff	Interspace Litter	36	55	71
	Bare Ground	Bare Ground	8	18	29
	Trees	JUOS	4	44	78
Density	11665	PIED	0	14	57
(#/acre)	Shrubs	ARTRW8	1953	3458	4678
	Siliubs	CHVI8	0	2983	8743
	Shrubs	ARTW8	16	22	27
Height		CHVI8	8	11	15
(in)	Herbaceous	Grass	8	10	15
		Forb	3	4	5
	Shrubs	ARTRW8	0.86	2.35	4.31
		CHVI8	0	0.10	0.41
	Herbaceous	Live	0.08	0.16	0.35
	Tierbaceous	Dead	<0.01	0.04	0.10
Fuel Loading		10-hr	0.12	0.60	1.37
(tons/acre)	Downed	100-hr	0.39	1.12	2.07
	Woody Debris	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
	Littor & Dull	Tree Litter + Duff	<0.01	0.04	0.08
Dulle Daniel	Shrubs	ARTRW8	0.0152	0.0395	0.0746
Bulk Density (lbs/ft³)	Officials	CHVI8	0	0.0039	0.0167
(155/11)	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	5			

Grass

Bare Ground



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



Utah Juniper: Mastication **CHANGE**Pre-treatment Phase 1

Variable	Category	Component	10th	Mean	90th
	T	JUOS	0	<1	1
	Trees	PIED	0	<1	<1
	Shrubs	ARTRW8	13	19	22
	Siliubs	CHVI8	0	5	13
Total Cover (%)		Perennial Grass	19	26	39
(70)	Herbaceous	Annual Grass	2	16	36
		Forb	2	19	47
	Litter & Duff	Interspace Litter	36	55	71
	Bare Ground	Bare Ground	8	18	29
	Trees	JUOS	4	44	78
Density	11665	PIED	0	14	57
(#/acre)	Shrubs	ARTRW8	1953	3458	4678
	Siliubs	CHVI8	0	2983	8743
	Shrubs	ARTW8	16	22	27
Height		CHVI8	8	11	15
(in)	Herbaceous	Grass	8	10	15
		Forb	3	4	5
	Shrubs	ARTRW8	0.86	2.35	4.31
		CHVI8	0	0.10	0.41
	Herbaceous	Live	0.08	0.16	0.35
	Tierbaceous	Dead	<0.01	0.04	0.10
Fuel Loading		10-hr	0.12	0.60	1.37
(tons/acre)	Downed	100-hr	0.39	1.12	2.07
	Woody Debris	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
	Littor & Dull	Tree Litter + Duff	<0.01	0.04	0.08
Dulle Daniel	Shrubs	ARTRW8	0.0152	0.0395	0.0746
Bulk Density (lbs/ft³)	Officials	CHVI8	0	0.0039	0.0167
(155/11)	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

Grass Annual

Grass

Bare

Ground

Perennial





Utah Juniper: Control Pre-treatment Phase 2

Onaqui		
1712 m 5617 ft 6/26/2016		
Cover (%	6)	
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

	_				
		JUOS	12	18	23
	Trees	PIED	0	5	17
	Shrubs	ARTRW8	2	8	16
T. (-) O	Siliubs	CHVI8	0	<1	3
Total Cover (%)		Perennial Grass	7	14	23
(70)	Herbaceous	Annual Grass	0.7	5	13
		Forb	3	20	35
	Litter & Duff	Interspace Litter	36	49	62
	Bare Ground	Bare Ground	13	27	41
	Trees	JUOS	55	126	185
Density	Hees	PIED	0	60	198
(#/acre)	Shrubs	ARTRW8	545	1373	2298
	Shrubs	CHVI8	0	670	2418
	Shrubs	ARTW8	12	20	27
Height		CHVI8	8	9	11
(in)	Herbaceous	Grass	4	7	11
		Forb	2	3	5
	Shrubs	ARTRW8	0.08	0.73	1.79
		CHVI8	0	<0.01	<0.01
	Herbaceous	Live	0.02	0.07	0.15
	Herbaceous	Dead	0	0.02	0.04
Fuel Loading		10-hr	0.11	0.31	0.56
(tons/acre)	Downed	100-hr	0.18	0.56	0.99
'	Woody Debris [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
	Litter & Duil	Tree Litter + Duff	3.90	7.90	11.71
Dulle Danate	Shrubs	ARTRW8	0.0021	0.0143	0.0318
Bulk Density (lbs/ft³)	Siliubs	CHVI8	0	0.0001	0.0002
(183/11)	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 (%	6)		
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 24 Grass 24 Annual 14 Grass 5 Bare Ground 5



Utah Juniper: Prescribed Fire Pre-treatment Phase 2

Variable	Category	Component	10th	Mean	90th
	Trees	JUOS	0	<1	3
		PIED	0	<1	2
	Shrubs	ARTRW8	0	3	8
Tatalo	Siliubs	CHVI8	0	3	7
Total Cover (%)		Perennial Grass	20	33	47
(70)	Herbaceous	Annual Grass	11	21	29
		Forb	4	29	56
	Litter & Duff	Interspace Litter	29	50	65
	Bare Ground	Bare Ground	8	15	25
	Trees	JUOS	0	17	39
Density	11665	PIED	0	11	31
(#/acre)	Shrubs	ARTRW8	45	1462	4837
	Siliubs	CHVI8	0	1324	3021
	Shrubs	ARTW8	12	20	26
Height		CHVI8	10	12	14
(in)	Herbaceous	Grass	8	11	15
		Forb	2	5	5
	Shrubs	ARTRW8	<0.01	0.42	1.39
		CHVI8	0	0.04	0.20
	Herbaceous	Live	0.15	0.28	0.45
	Tierbaceous	Dead	0.01	0.06	0.09
Fuel Loading		10-hr	0.27	0.57	1.19
(tons/acre)	Downed	100-hr	0.39	1.12	2.02
	Woody Debris	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
	Litter & Duil	Tree Litter + Duff	0	0.17	0.55
Bulk Danaite	Shrubs	ARTRW8	0.0004	0.0093	0.0250
Bulk Density (lbs/ft³)	Snrubs	CHVI8	0	0.0014	0.0073
(IDS/IL)	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 (%	6)		
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 7 Grass 9 Bare 9 Ground



Utah Juniper: Cutting Pre-treatment Phase 2

Variable	Category	Component	10th	Mean	90th
	Tropo	JUOS	<1	<1	1
	Trees	PIED	0	<1	<1
	Shrubs	ARTRW8	6	16	25
	Siliubs	CHVI8	0	4	10
Total Cover (%)		Perennial Grass	16	27	34
(70)	Herbaceous	Annual Grass	2	11	23
		Forb	2	19	39
	Litter & Duff	Interspace Litter	37	52	71
	Bare Ground	Bare Ground	9	18	28
	Trees	JUOS	19	81	152
Density	Hees	PIED	0	20	38
(#/acre)	Shrubs	ARTRW8	1095	3285	5868
	Siliubs	CHVI8	0	1819	3902
	Shrubs	ARTW8	14	21	30
Height		CHVI8	10	12	13
(in)	Herbaceous	Grass	7	9	14
		Forb	2	5	8
	Shrubs	ARTRW8	0.43	1.91	3.79
	Siliubs	CHVI8	0	0.05	0.21
	Herbaceous	Live	0.09	0.19	0.31
	Tierbaceous	Dead	<0.01	0.04	0.07
Fuel Loading		10-hr	0.34	0.63	1.02
(tons/acre)	Downed	100-hr	0.76	1.43	2.40
	Woody Debris	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
	LILLEI & DUII	Tree Litter + Duff	0.02	0.14	0.23
Bulk Danaite	Shrubs	ARTRW8	0.0130	0.0350	0.0527
Bulk Density (lbs/ft³)	Siliubs	CHVI8	0	0.0021	0.0081
(105/11-)	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 (%	6)			
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 22 Grass 2 Annual 2 Grass 33 Ground



Utah Juniper: Mastication **CHANGE**Pre-treatment Phase 2

Variable	Category	Component	10th	Mean	90th
	Troop	JUOS	2	8	16
	Trees	PIED	0	2	6
	Shrubs	ARTRW8	7	15	24
Total Course	Siliubs	CHVI8	0	1	5
Total Cover (%)		Perennial Grass	10	18	26
(70)	Herbaceous	Annual Grass	<1	9	21
		Forb	1	23	40
	Litter & Duff	Interspace Litter	34	45	57
	Bare Ground	Bare Ground	13	23	35
	Trees	JUOS	22	96	200
Density	11665	PIED	0	15	44
(#/acre)	Shrubs	ARTRW8	1269	2943	5039
	Siliubs	CHVI8	0	840	2902
	Shrubs	ARTW8	15	20	26
Height		CHVI8	10	11	12
(in)	Herbaceous	Grass	5	9	14
		Forb	3	4	5
	Shrubs	ARTRW8	1.01	1.99	3.78
	Siliubs	CHVI8	0	<0.01	0
	Herbaceous	Live	0.04	0.12	0.25
	Tierbaceous	Dead	0	0.02	0.04
Fuel Loading		10-hr	0.15	0.36	0.56
(tons/acre)	Downed	100-hr	0.19	0.69	1.22
	Woody Debris	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
	Litter & Duil	Tree Litter + Duff	1.32	3.08	5.13
Bulk Danaite	Shrubs	ARTRW8	0.0230	0.0348	0.0439
Bulk Density (lbs/ft³)		CHVI8		0	
(IDS/It*)	Herbaceous	Live + Dead	0.0059	0.0142	0.0287

Utah Juniper: Control Pre-treatment Phase 3

Greenville Bench		
1804 m 59 6/15/201	l	
Cover (%	6)	
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 2 Grass 2 Annual Grass 2 Bare 34 Ground 34



Utah Juniper: Control Pre-treatment Phase 3

Variable	Category	Component	10th	Mean	90th
	Troop	JUOS	13	26	40
	Trees	PIED	0	13	35
	Shrubs	ARTRW8	<1	3	5
Total Course	Siliubs	CHVI8	0	<1	1
Total Cover (%)		Perennial Grass	2	9	19
(70)	Herbaceous	Annual Grass	0	2	4
		Forb	1	13	22
	Litter & Duff	Interspace Litter	40	51	58
	Bare Ground	Bare Ground	22	33	40
	Trees	JUOS	68	160	285
Density	11665	PIED	0	113	329
(#/acre)	Shrubs	ARTRW8	195	881	1435
	Siliubs	CHVI8	0	450	1481
	Shrubs	ARTW8	13	17	22
Height		CHVI8	7	8	9
(in)	Herbaceous	Grass	4	5	6
		Forb	1	3	4
	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
Fuel Loading	Downed	10-hr	0.11	0.27	0.52
(tons/acre)		100-hr	0.02	0.42	0.73
	Woody Debris	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
	Litter & Duil	Tree Litter + Duff	7.71	10.20	13.48
D. II. D:	Shrubs	ARTRW8	0.0011	0.0062	0.0105
Bulk Density (Ibs/ft³)	Officials	CHVI8	0	<0.0001	<0.0001
(103/11)	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 (%	6)			
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 2 Grass 2 Annual 33 Grass 33 Bare Ground 8



Utah Juniper: Prescribed Fire Pre-treatment Phase 3

Variable	Category	Component	10th	Mean	90th
	Tropo	JUOS	1	5	8
	Trees	PIED	0	5	15
	Shrubs	ARTRW8	<1	2	6
Tatalo	Siliubs	CHVI8	0	<1	2
Total Cover (%)		Perennial Grass	10	25	36
(70)	Herbaceous	Annual Grass	9	25	46
		Forb	6	25	46
	Litter & Duff	Interspace Litter	40	55	65
	Bare Ground	Bare Ground	7	16	28
	Trees	JUOS	12	51	80
Density	Hees	PIED	0	35	115
(#/acre)	Shrubs	ARTRW8	32	1004	2548
	Siliubs	CHVI8	0	407	1617
	Shrubs	ARTW8	14	19	27
Height		CHVI8	10	12	15
(in)	Herbaceous	Grass	9	12	17
		Forb	3	5	8
	Shrubs	ARTRW8	0	0.29	0.69
	Siliubs	CHVI8	0	<0.01	<0.01
	Herbaceous	Live	0.08	0.22	0.36
	Herbaceous	Dead	<0.01	0.05	0.11
Fuel Loading		10-hr	0.33	0.69	1.26
(tons/acre)	Downed	100-hr	0.59	2.02	4.68
	Woody Debris	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
	Litter & Dull	Tree Litter + Duff	0.13	1.42	3.70
Dulle Danaid	Shrube	ARTRW8	0	0.0044	0.0085
Bulk Density (lbs/ft³)	Shrubs	CHVI8	0	0.0002	0.0003
(183/10)	Herbaceous	Live + Dead	0.0091	0.0186	0.0308

Utah Juniper: Cutting Pre-treatment Phase 3

Greenville Bench 1785 m 5856 ft				
6/27/201				
Cover (%	6)			
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 Annual Grass 1 Bare Ground 33



Utah Juniper: Cutting Pre-treatment Phase 3

Variable	Category	Component	10th	Mean	90th
	Trees	JUOS	<1	1	2
		PIED	0	<1	<1
	Shrubs	ARTRW8	0	4	12
Tatalo	Siliubs	CHVI8	0	2	6
Total Cover (%)		Perennial Grass	26	33	42
(70)	Herbaceous	Annual Grass	1	15	29
		Forb	5	18	39
	Litter & Duff	Interspace Litter	37	48	59
	Bare Ground	Bare Ground	11	18	23
	Trees	JUOS	39	116	224
Density	Hees	PIED	0	38	124
(#/acre)	Shrubs	ARTRW8	23	965	2026
	Shrubs	CHVI8	0	767	2235
	Shrubs	ARTW8	13	17	22
Height		CHVI8	9	10	11
(in)	Herbaceous	Grass	7	10	12
		Forb	4	5	6
	Charles	ARTRW8	0	0.43	0.69
	Shrubs	CHVI8	0	0.03	0.04
	Herbaceous	Live	0.13	0.34	0.63
	Herbaceous	Dead	0.03	0.10	0.18
Fuel Loading		10-hr	0.42	0.87	1.31
(tons/acre)	Downed	100-hr	1.11	2.16	3.36
	Woody Debris	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
	Litter & Duii	Tree Litter + Duff	0.02	0.22	0.67
Davida Davida	Shrubs	ARTRW8	0	0.0087	0.0204
Bulk Density (lbs/ft³)	Siliubs	CHVI8	0	0.0011	0.0016
(183/10)	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 (%	6)			
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
	Trees	JUOS	2	8	16
	nees	PIED	0	2	6
	Shrubs	ARTRW8	7	15	24
T. (.) O	Siliubs	CHVI8	0	1	5
Total Cover (%)		Perennial Grass	10	18	26
(70)	Herbaceous	Annual Grass	<1	9	21
		Forb	1	23	40
	Litter & Duff	Interspace Litter	34	45	57
	Bare Ground	Bare Ground	13	23	35
	Trees	JUOS	22	96	200
Density	Hees	PIED	0	15	44
(#/acre)	Shrubs	ARTRW8	1269	2943	5039
	Siliubs	CHVI8	0	840	2902
	Shrubs	ARTW8	15	20	26
Height	Siliubs	CHVI8	10	11	12
(in)	Herbaceous	Grass	5	9	14
		Forb	3	4	5
	Shrubs	ARTRW8	1.01	1.99	3.78
	Siliubs	CHVI8	0	<0.01	0
	 Herbaceous	Live	0.04	0.12	0.25
	Tierbaceous	Dead	0	0.02	0.04
Fuel Loading		10-hr	0.15	0.36	0.56
(tons/acre)	Downed	100-hr	0.19	0.69	1.22
	Woody Debris	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
	Litter & Duil	Tree Litter + Duff	1.32	3.08	5.13
Bulk Danaits	Shrubs	ARTRW8	0.0230	0.0348	0.0439
Bulk Density (lbs/ft³)		CHVI8		0	
(1.23/11)	Herbaceous	Live + Dead	0.0059	0.0142	0.0287