

First Year Community Analysis for Prescribed Fire Sites

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by

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OVERALL COMMUNITY DESCRIPTIONS: HEIL RANCH AND WALKER RANCH

The plant communities at the Walker Ranch and Heil Ranch are low elevation open Ponderosa pine/grassland community. Historically, the area experienced frequent fires from lightning, and during the late 1800's, mining and railroad operations created frequent human-caused fires. Cool season grasses, and some warm-season grasses, with infrequent ponderosa pine and Douglas fir, dominated the community during this time. During the 1900's, fire suppression effectively curtailed most fires, and allowed tree seedlings to survive due to the lack of fire. Ponderosa and Douglas fir have greatly expanded their cover in the area, with most trees being around 80-100 years old. Juniper (*Juniperus scopulorum*) are also common in the area, which because its lack of fire tolerance, shows that the area now experiences infrequent fires. Because of the increasing litter generated by ponderosa pine and Douglas fir, decreased cover in grasses and forbs is apparent, and litter makes up a large component of these systems.

HEIL RANCH:

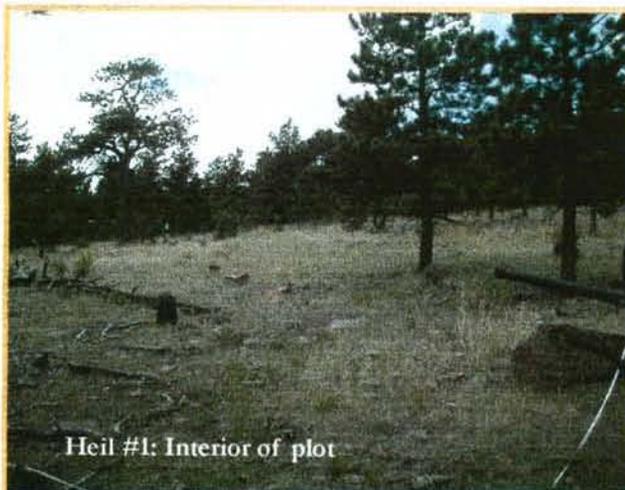
Three Modified-Whittaker vegetation plots were installed on the Heil Ranch property on July 10, 2000. Fuels data was collected at that time as well as photographs and GPS locations. The following is the fuels summary from the data collected on those plots.



FUELS DATA:

Plot placement on the Heil and Walker Ranches was done in order to capture some of the different stand structures found within the burn area. Open ponderosa, dense stands of ponderosa and meadows with some ponderosa were represented. The down/dead fuels did not vary much between plots- by far the greatest effect on fire behavior will be from live fuels and fine fuels such as grass. The following is tons/acre estimates generated from representative photo series compared to Heil Ranch and Walker Ranch plot photos:

Heil Plot #1:



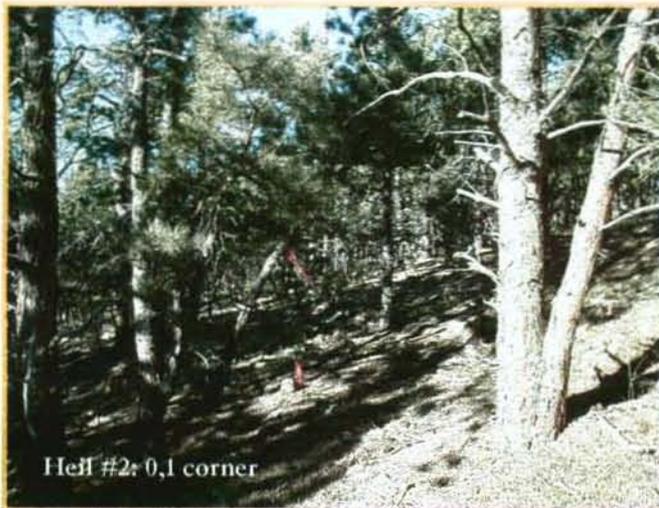
Plot	Size Class	Tons/Acre
Heil 1	0-.25"	.2
	.25"-1"	.7
	1"-3"	.7
	3"-9"	2.2
	9.1"-20"	1



Heil #2: 0,0 corner

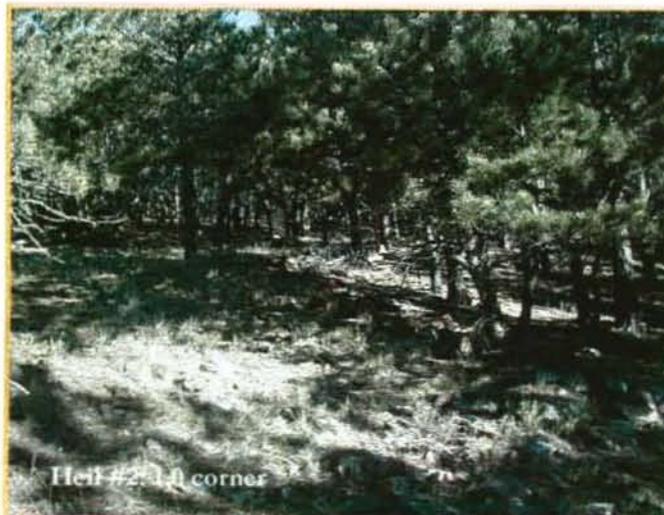
Heil Plot #2: This Plot was placed in an area of younger age class ponderosa pine, and a section of the plot has a small (1/4 acre) stand of doghair ponderosa regrowth. Small stands of doghair regrowth are found throughout the Heil property.

Plot	Size Class	Tons/Acre
Heil 2	0-25"	.4
	25"-1'	1.4
	1'-3'	1.5
	3'-9'	1.2
	9.1'-20'	.2

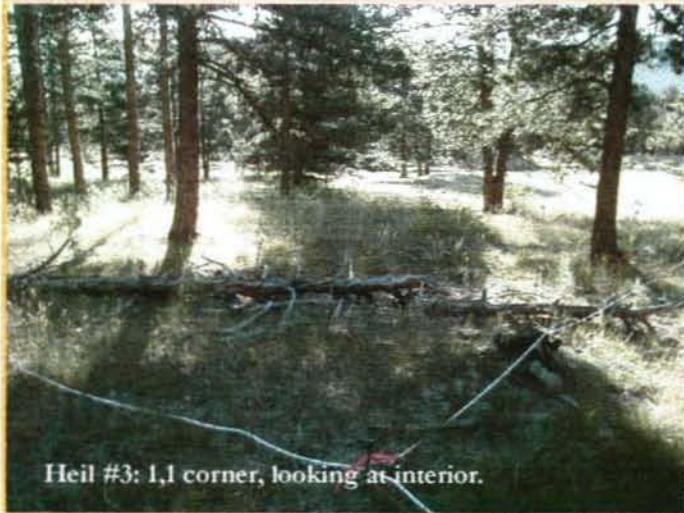


Heil #2: 0,1 corner

In these dense stands of doghair, they are usually not fully engulfed in fire, unless live fuel moistures are very low, or aggressive firing (mass firing) is done within and around the stand.



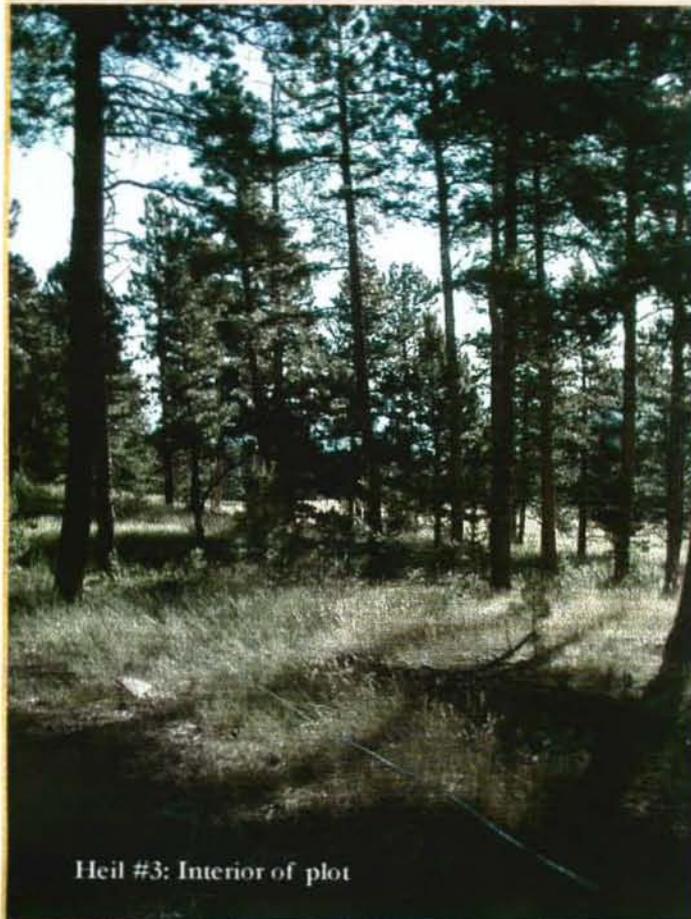
Heil #2: 1,0 corner



Heil Plot #3

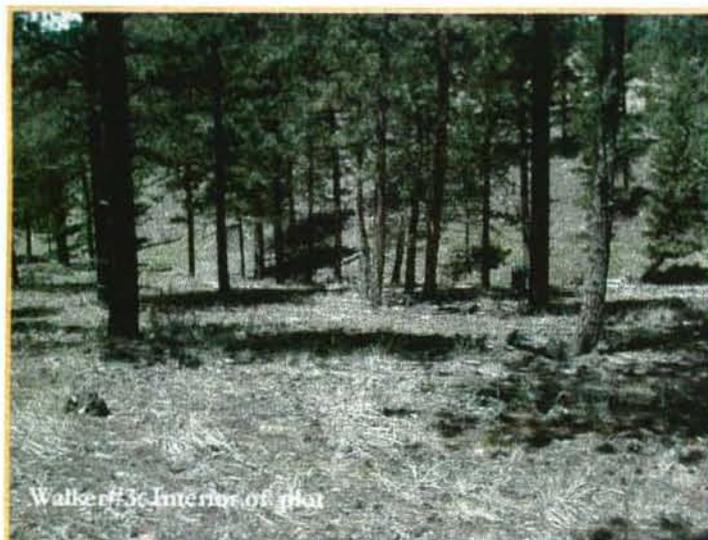
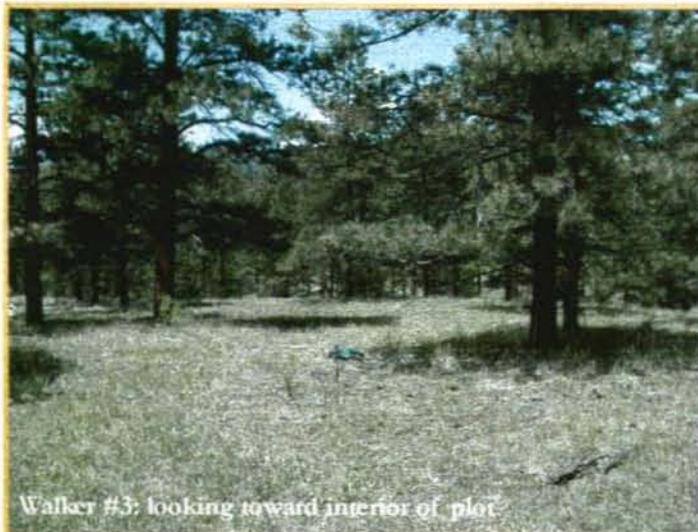
This plot is at the edge of a relatively large meadow, with larger diameter ponderosa pine scattered around the edges. Fine fuels (grass) have high connectivity and should carry a fire very well through this area.

Plot	Size Class	Tons/Acre
Heil 3	0-.25"	.1
	.25"-1"	.4
	1"-3"	.7
	3"-9"	1.7
	9.1"-20"	1.8



WALKER RANCH

Three Modified Whittaker plots were installed on the Walker Ranch Rx fire area on July 11, 2000. All three of the plots were burned in the Eldorado fire in September 2000. An additional plot that was installed by Claire DeLeo in previous years was re-read in August 2000. To our knowledge, this last plot was not burned in the Eldorado fire. Because BCPOS already had plots named Walker 1, and Walker 2, our new plots start at Walker 3.



Walker Plot #3

The Walker Ranch plots were in a much more homogenous fuel type, with slight variations on the open ponderosa pine community. Walker plots start at #3 to continue the same numbering sequence already in place for BCPOS plots.

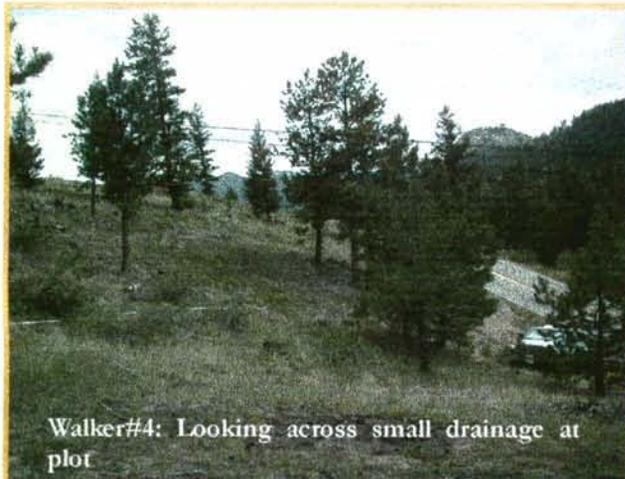
Plot	Size Class	Tons/Acre
Walker3	0-.25"	.2
	.25'-1"	.4
	1"-3"	.5
	3"-9"	.8
	9.1"-20"	.5

Walker Plot #4

Walker Plot #4 showed signs of recent thinning, therefore there was slightly higher amounts of fuels than in other plots, as we know, this plot burned in the Eldorado Fire in September 2000. The fire did not burn under high severity conditions through this area, primarily due to thinning operations recently completed.

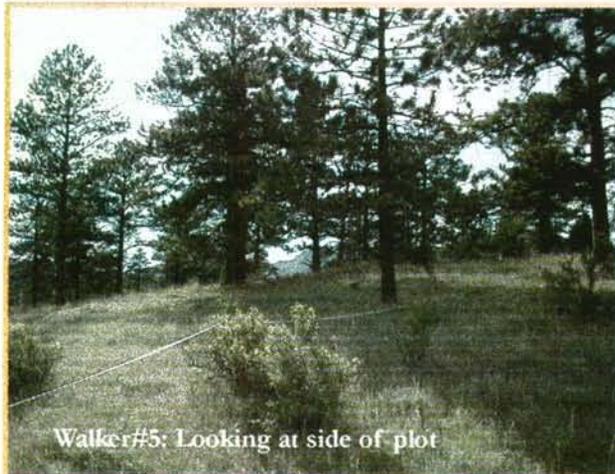


Walker#4: 0,0 corner

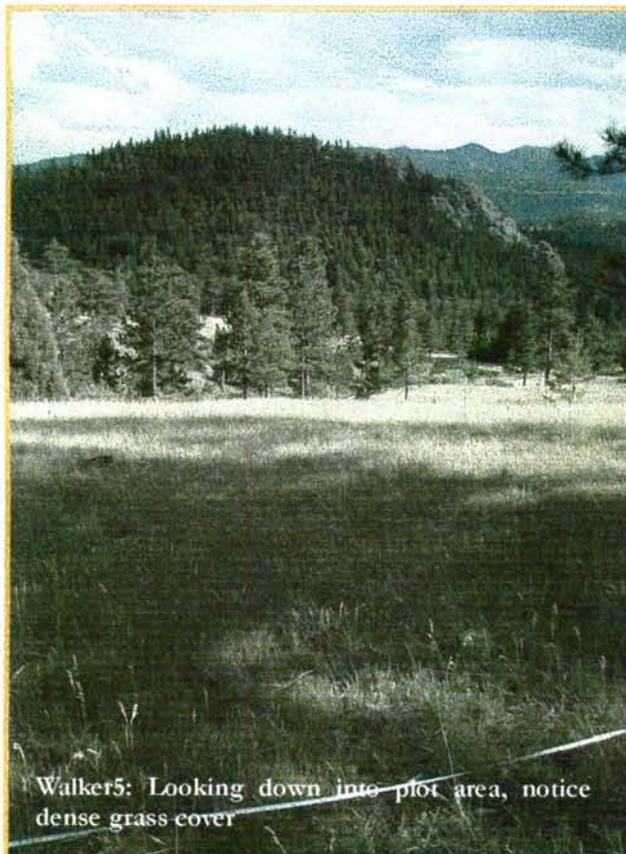


Walker#4: Looking across small drainage at plot

Plot	Size Class	Tons/Acre
Walker4	0-.25"	.5
	.25"-1"	1.2
	1"-3"	.8
	3"-9"	.7
	9.1"-20"	.0



Walker#5: Looking at side of plot

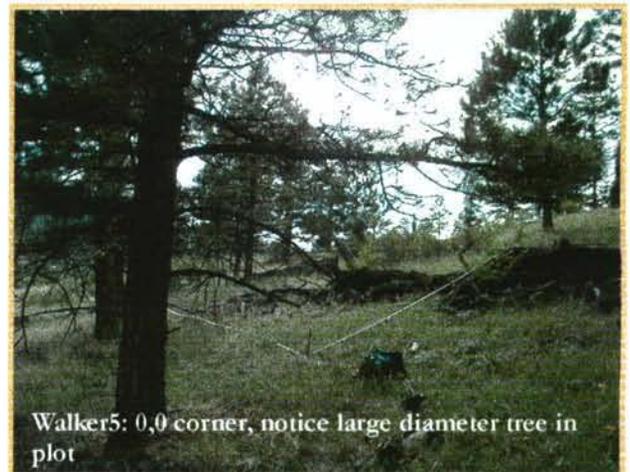


Walker5: Looking down into plot area, notice dense grass cover

Walker Plot #5

Plot #5 was the most different of the Walker plots due to the high grass cover over much of the plot. The plot was placed in an area with open meadows with high grass cover in order to capture this aspect of the Walker Rx fire area. This area burned in the Eldorado fire as well. There was one large diameter tree down in the plot. Large diameter material can greatly skew fuel loading estimation as it takes only one tree in your sample area to greatly increase tonnage per acre.

Plot	Size Class	Tons/Acre
Walker5	0-.25"	.4
	.25"-1"	1
	1"-3"	.4
	3"-9"	.3
	9.1"-20"	1



Walker5: 0,0 corner, notice large diameter tree in plot

MODIFIED WHITTAKER PLOT DATA

The following pages contain the data generated from the installed Modified Whittaker plots on the Heil Ranch and the Walker Ranch.

Date: 7,10,00

Recorder: EP/MW

Collector: MW

Site: Heil #1

File Name:

GPS:

Start Time:

End Time:

% AVG Cover

< 1 %

1-5 %

6-25 %

26-75 %

> 75 %

occured only in A,B,C, or K

Number of Species

Native

Introduced

Total

5 most dominant species (in % AVG cover)

Species

% Avg cover

Freq

Native? (Y=Native, N=introduced)

Carex geophila

8.50

11

Y

Pinus ponderosa

8.00

4

Y

Muhlenbergia montana

4.70

3

Y

Bouteloua gracilis

3.40

3

Y

Andropogon gerardii

3.10

4

Y

Comments	N1	Type	Species	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K	% AVG cover	Freq.	Species
		n	rock	0	23	20	12	5	5	7	2	28	38							Rock
NI: Y=Native, N=Exotic, U=Unknown		n	soil	3	4	0	0	1	3	0	0	0.5	2							Bare Soil
FG: F(Forb), G(Grass, Grass like), S(Shrub, Subshrub) T(Tree)		n	litter	30	35	35	23	80	32	70	26	80	55							Litter
AP: A(Annual), P(Perennial), E(Evergreen)		n	duff	500	0	0	0	0	0	0	0	0	0							Duff (thick litter)
		n	poop	0	0	0	0	0	0	0	0	0	0							Messure
		n	wood	0	0	0	0	0	0	0	0	0	0							Wood
		n	water	0	0	0	0	0	0	0	0	0	0							Standing Water
	#N: A	app	100 hr	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12	1	#N/A
	Y	app	achlan	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Achillea lanulosa</i>
	Y	app	agrdas	0	0	0	0	2	0.5	0	0	0	0	1	0	0	0	0.25	3	<i>Agropyron dasystachyum</i>
	Y	app	allcer	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Allium cernuum</i>
	Y	app	ambpsi	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0.20	4	<i>Ambrosia psilostachya</i>
	Y	app	andger	0	3	0	0	0	0	28	0	0	0	1	0	1	1	3.10	4	<i>Andropogon gerardii</i>
	Y	app	artfri	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0.20	1	<i>Artemisia frigida</i>
	Y	app	artlud	0.5	2	0	0	2	5	0	2	1	1	1	1	1	1	1.35	10	<i>Artemisia ludoviciana</i>
	Y	app	astpur	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.00	2	<i>Astragalus purshii</i>
	Y	app	bougra	0	0	0	0	33	0	1	0	0	0	0	1	0	1	3.40	3	<i>Bouteloua gracilis</i>
	N	app	brotec	0	4	10	0	0	0.5	0.5	4	0	0	1	1	1	1	1.90	8	<i>Bromus tectorum</i>
	Y	app	carexsp	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Carex species</i>
	Y	app	cargeo	8	5	3	0	0	4	1	3	1	60	1	1	1	1	8.50	11	<i>Carex geophila</i>
	N	app	carnut	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.00	2	<i>Carduus nutans</i>
	Y	app	cysfra	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0.01	1	<i>Cystopteris fragilis</i>
	Y	app	danint	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Danthonia intermedia</i>
	Y	app	diclin	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.00	1	<i>Dicanthelium linearifolium</i>
	Y	app	dicoli	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0.20	2	<i>Dichanthelium oligoanthos</i>
	Y	app	dryfis	0	0	0	1	0	0	0	0.5	0	1	0	1	1	1	0.00	5	<i>Dryocallis fissa</i>
	Y	app	elyely	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.00	1	<i>Elymus elymoides</i>
	Y	app	erifla	0	0	0	0	0	6	0.5	0	0	0.5	1	1	1	1	0.00	6	<i>Eriogonum flavum</i>
	Y	app	eriumb	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0.00	2	<i>Eriogonum umbellatum</i>
	Y	app	eryasp	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.00	1	<i>Erysimum asperum</i>
	Y	app	gercae	0.5	0	0	0	0	0	0	0	0.5	0	1	1	1	1	0.10	5	<i>Geranium caespitosum</i>
	Y	app	grisqu	0	0	0.5	0	0	0	0	0	2	0.5	1	0	0	1	0.30	1	<i>Grindelia squarrosa</i>
	Y	app	gutsar	0	0	0	4	0	0	0	0	0	0	1	0	0	1	0.40	2	<i>Gutierrezia sarothrae</i>
	Y	app	hetvil	0	2	3	3	0	4	4	0	0	0	1	1	1	1	1.60	8	<i>Heterotheca villosa var villosa</i>
	Y	app	koemac	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.00	1	<i>Koeleria macrantha</i>
	Y	app	lepssp	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.01	1	<i>Lepidium species</i>
	#N: A	app	lingen	0	0	0.5	0	0	0	0	0.5	0	0	0	0	1	1	0.10	3	#N/A
	N	app	medsai	0	0	0	0	0.5	0	0	0	0	0	0	1	0	0	0.05	2	<i>Medicago sativa</i>
	Y	app	merlan	0	0	0	0	0	0	0	0	0.5	0	0	0	1	1	0.20	2	<i>Mertensia lanceolata</i>
	Y	app	muhmon	0	0	12	15	0	20	0	0	0	0	0	0	0	1	4.70	3	<i>Muhlenbergia montana</i>
	Y	app	opupol	0	0	28	0	1	0	0	0	0	0	0	1	1	1	2.90	4	<i>Opuntia polyacantha</i>
	Y	app	agrsmi	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Agropyron smithii</i>
	Y	app	dalpur	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Dalea purpurea</i>
	Y	app	phabas	0	0	0	0.5	0	0	0	0	0	0	0	0	0	1	0.05	1	<i>Phacelia hastata</i>
	Y	app	pinpon	0	0	0	0	0	0	0	0	65	15	0	1	1	1	8.00	4	<i>Pinus ponderosa</i>
	Y	app	poacom	0	20	0	0	0	0	0	0	0	0	0	0	0	1	2.00	1	<i>Poa compressa</i>
	Y	app	poasec	0	0	0	3	0	0	0.5	0	0	0.5	0	1	1	1	0.40	5	<i>Poa secunda</i>
	Y	app	rbutri	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Rhus trilobata</i>
	Y	app	ribcer	0	0	0	7	0	0	0	0	0	0	0	0	0	1	0.70	1	<i>Ribes cereum</i>
	Y	app	schsco	0	0	0	0	0	0	1	25	0	4	0	0	1	1	3.00	4	<i>Schizachyrium scoparium</i>
	Y	app	scubri	0.5	0	0	1	0.5	0	0	0.5	0	0	1	1	1	1	0.25	7	<i>Scutellaria brittonii</i>
	Y	app	spocry	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.00	2	<i>Sporobolus cryptandrus</i>
	Y	app	sticom	0	0	0	0	0	0	2	0	8	0	1	0	1	1	1.00	4	<i>Stipa comata</i>
	Y	app	symrot	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Symphoricarpos rotundifolius</i>
	N	app	tradub	0	0	0	0	0	0	0	0.5	0	0	1	1	1	1	0.05	4	<i>Tragopogon dubius</i>
	U	app	ukgrass	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0.18	1	Unknown Grass
	N	app	vertha	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Verbascum thapsus</i>
	Y	app	yucgla	0	0	0	0	0	0	8	0	0	0	1	0	1	1	0.80	3	<i>Yucca glauca</i>
<SUMMARY>			SITE TOTAL	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K			SITE TOTAL
Total % Cover* (including soil, litter, ...etc)			161.70	554.5	98.5	115	87.5	126	80	124.5	64.5	189	177.5							Total % Cover
Total % Cover of All Species*			49.75	21.5	36.5	60	52.5	40	40	47.5	36.5	80.5	82.5							Total Spp % Cover

Number of Native Species (in 1 m ² subplots)	43 (26)	4	6	7	8	6	6	10	6	8	8	15	16	19	37	Number of Native Species
Total % Cover of Native Species*	43.61	9.5	32.5	49.5	34.5	39.5	39.5	47	32	80	82.5	N/A				Native Spp % Cover
Number of Introduced Species (in 1 m ² subplots)	5 (3)	0	1	1	0	1	1	1	2	0	0	3	3	3	4	# of Exotic Spp
Total % Cover of Introduced Species*	2	0	4	10	0	0.5	0.5	0.5	4.5	0	0	N/A				Exotic Spp % Cover
Number of Species with < 1 % Average Cover	20	3	1	2	1	2	2	3	3	3	3	N/A				# of Spp < 1% Cover
Number of Species Found Only in One Subplot	14	0	1	1	0	0	0	0	0	0	0	1	2	0	9	# of Spp only in 1 subplot
Number of Unknown Species	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	# of Unknown Spp
Total Number of Species (in 1 m ² subplots)	91 (32)	5	7	9	9	7	7	11	8	9	8	18	19	23	91	Total # of Spp

Date: 7.10.00

Recorder: EP/MW

Collector: MW

Site: Heil #2

File Name:

GPS:

Start Time:	End Time:	Number of Species				5 most dominant species (in % AVG cover)				
		% AVG Cover	Native	Introduced	Total	Species	% Avg cover	Freq.	Native? (Y=Native, N=Introduced)	
		< 1 %	8	1	9	<i>Pinus ponderosa</i>	29.30	10	Y	
		1-5 %	1	0	1	<i>Carex geophila</i>	2.45	12	Y	
		6-25 %	0	0	0	<i>Geranium caespitosum</i>	0.35	7	Y	
		26-75 %	1	0	1	<i>Artemisia ludoviciana</i>	0.30	7	Y	
		> 75 %	0	0	0	<i>Tradescantia occidentalis</i>	0.20	1	Y	
		occured only in A,B,C, or K	20	0	22					

Comments	N1	Type	Species	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K	% AVG cover	Freq.	Species
N1: Y=Native, N=Exotic, U=Unknown		u	rock	4	4	38	60	60	50	45	35	30	45							Rock
		u	soil	0	0	0	2	0	2	0	0	0	0							Bare Soil
F.G: F(Forb), G(Grass, Grass like), S(Shrub, Subshrub) T(Tree)		u	lit	73	98	70	35	95	97	60	85	72	70							Litter
A.P: A(Annual), P(Perennial), E(Evergreen)		u	duff	0	0	0	0	0	0	0	0	0	0							Duff (thick litter)
		u	poop	0	0	0	0	1	0	0	0	0	0							Manure
		u	wood	0	0	0	0	0	0	0	0	0	0							Wood
		u	water	0	0	0	0	0	0	0	0	0	0							Standing Water
	#N/A	app	1000hr	32	0	0	0	0	0	0	0	0	0	0	0	0	0		1	#N/A
	Y	app	alicer	0	0	0	0	0	0	0	0	0.5	0	1	1	1	1	0.05	4	<i>Allium cernuum</i>
	Y	app	andger	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Andropogon gerardii</i>
	Y	app	artfri	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.00	2	<i>Artemisia frigida</i>
	Y	app	artlud	0.5	0.5	0	0.5	0	0	0	1	0.5	0	1	1	1	1	0.30	7	<i>Artemisia ludoviciana</i>
	Y	app	bougna	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.00	1	<i>Bouteloua gracilis</i>
	N	app	brotec	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Bromus tectorum</i>
	Y	app	cargeo	2	2	0	7	1	1	4	2	5	0.5	1	1	1	1	2.45	12	<i>Carex geophila</i>
	Y	app	caslin	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.00	2	<i>Castilleja linearifolia</i>
	Y	app	cysfra	0	0	0	0.5	0	0	0	0	0	0	1	0	1	0	0.05	3	<i>Cystopteris fragilis</i>
	Y	app	diclin	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Dicanthelium linearifolium</i>
	Y	app	erifa	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.00	2	<i>Eriogonum flavum</i>
	Y	app	eriumb	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Eriogonum umbellatum</i>
	Y	app	eryasp	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Erysimum asperum</i>
	Y	app	gercae	0	0.5	0	1	1	0	0	1	0	0	1	1	1	1	0.35	7	<i>Geranium caespitosum</i>
	Y	app	hartra	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Harbortia villosa</i>
	Y	app	hetvil	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.00	3	<i>Heterotheca villosa var villosa</i>
	Y	app	koemac	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.00	1	<i>Koeleria macrantha</i>
	Y	app	muhmon	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0.00	2	<i>Muhlenbergia montana</i>
	Y	app	opupol	0	0.5	0	0	0	3	0	0	0	0	1	0	1	1	0.35	4	<i>Opuntia polyacantha</i>
	Y	app	agrsmi	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	1	<i>Agropyron smithii</i>
	Y	app	pedsim	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Pediocactus simpsonii</i>
	Y	app	phahas	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Phacelia hastata</i>
	Y	app	pinpon	0	40	0	15	95	40	15	35	25	28	1	0	1	1	29.30	10	<i>Pinus ponderosa</i>
	Y	app	poasec	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Poa secunda</i>
	Y	app	rhutri	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.00	1	<i>Rhus trilobata</i>
	Y	app	ribcer	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Ribes cereum</i>
	Y	app	schsco	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.00	2	<i>Schizachyrium scoparium</i>
	Y	app	scubri	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.01	1	<i>Scutellaria brittonii</i>
	Y	app	sticom	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Stipa comata</i>
	N	app	tradub	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.05	0	<i>Tragopogon dubius</i>
	Y	app	traocc	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.20	1	<i>Tradescantia occidentalis</i>
	U	app	ukforb	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Unknown Forb</i>
	Y	app	yuegla	0	0.5	0	0	0	0	0	0	0	0	1	1	1	1	0.05	4	<i>Yucca glauca</i>
<SUMMARY>			SITE TOTAL	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K			SITE TOTAL
Total % Cover* (including soil, litter, ...etc)			149.50	112.5	146	108	121	255	193	124	158	133.5	144	N/A						Total % Cover
Total % Cover of All Species*			36.2	35.5	44	0	24	97	44	19	38	31.5	29	N/A						Total Spp % Cover
Number of Native Species (in 1 m ² subplots)			30 (10)	3	6	0	5	3	3	2	3	4	3	16	11	12	27			Number of Native Species
Total % Cover of Native Species*			33.105	3.5	44	0	24	97	44	19	38	31.5	29	N/A						Native Spp % Cover
Number of Introduced Species (in 1 m ² subplots)			2 (1)	0	0	0	0	0	0	0	0	0	0	0	0	0	2			# of Exotic Spp
Total % Cover of Introduced Species*			0.05	0	0	0	0	0	0	0	0	0	0	N/A						Exotic Spp % Cover
Number of Species with < 1 % Average Cover			9	1	4	0	2	0	0	0	0	1	2	N/A						# of Spp < 1% Cover
Number of Species Found Only in One Subplot			18	0	0	0	0	0	0	0	0	0	0	3	2	1	12			# of Spp only in 1 subplot
Number of Unknown Species			1	0	0	0	0	0	0	0	0	0	0	0	0	0	1			# of Unknown Spp
Total Number of Species (in 1 m ² subplots)			91 (11)	4	6	0	5	3	3	2	3	4	3	16	11	12	91			Total # of Spp

Date: 7,11,00
 Recorder: EP/MW
 Collector: MW
 Site: Heil #3
 File Name:
 GPS:

	% AVG Cover	Number of Species			
		Native	Introduced	Total	
Start Time:	< 1 %	14	3	20	
End Time:	1-5 %	1	0	1	
	6-25 %	1	0	1	
	26-75 %	0	0	0	
	> 75 %	0	0	0	
	occured only in A,B,C, or K	15	0	19	

5 most dominant species (in % AVG cover)				
Species	% Avg cover	Freq.	Native? (Y=Native, N=introduced)	
<i>Poa compressa</i>	19.50	8		Y
<i>Carex geophila</i>	2.90	6		Y
<i>Andropogon gerardii</i>	0.60	2		Y
<i>Eriogonum flavum</i>	0.40	5		Y
<i>Agropyron smithii</i>	0.25	8		Y

Comments	N/I	type	Species	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K	% AVG cover	Freq.	Species		
	n	rock		0	0	0	2	0	0	0	0	0	0							Rock		
	n	soil		0	0	0	0	0	0	0	0	0	0							Bare Soil		
	n	litt		35	22	60	80	65	75	65	20	70	85							Litter		
	n	duff		0	0	0	0	0	0	0	0	0	0							Duff (thick litter)		
	n	poop		0	0	0	0	0	0	0	0	0	0							Manure		
	n	wood		0	0	0	0	0	0	0	0	0	0							Wood		
	n	water		0	0	0	0	0	0	0	0	0	0							Standing Water		
	#N/A	spp	1000 hr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.12	0	#N/A		
	Y	spp	achlan	0	0	0	0	0	0	0	0	0	0.5	1	1	0	1	0.01	3	<i>Achillea lanulosa</i>		
	Y	spp	agrsmi	0	0	15	45	10	22	0	1	4	0	1	0	1	1	0.25	8	<i>Agropyron smithii</i>		
	Y	spp	ambpsi	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0.20	1	<i>Ambrosia psilostachya</i>		
	Y	spp	andger	0	0	0	0	0	0	0	0	0	0	6	0	0	1	0.60	2	<i>Andropogon gerardii</i>		
	Y	spp	artfri	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.00	2	<i>Artemisia frigida</i>		
	Y	spp	artlud	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.00	1	<i>Artemisia ludoviciana</i>		
	Y	spp	bougra	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.00	1	<i>Bouteloua gracilis</i>		
	N	spp	broine	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.00	1	<i>Bromus inermis</i>		
	N	spp	brotec	0	0	0	0	0	0	0	0	0.5	0	1	0	1	1	0.05	3	<i>Bromus tectorum</i>		
	Y	spp	carbre	0	0	0	0	0	0	0	0.5	0	0	0	0	1	0	0.05	2	<i>Carex brevior</i>		
	Y	spp	cargeo	0	0	0	10	0	0	0	0	18	1	1	1	1	1	2.90	6	<i>Carex geophila</i>		
	N	spp	carnut	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.00	2	<i>Carduus nutans</i>		
	Y	spp	caslin	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Castilleja linariaefolia</i>		
	Y	spp	danint	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0.05	1	<i>Danthonia intermedia</i>		
	Y	spp	dicoli	0.5	0	0	0	0	1	0	0	0	0	0	0	1	1	0.00	3	<i>Dichanthelium oligosanthes</i>		
	Y	spp	erifla	0	3	0	0	0	0	0	0.5	0.5	0	1	0	1	1	0.40	5	<i>Eriogonum flavum</i>		
	Y	spp	gercae	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.15	0	<i>Geranium caespitosum</i>		
	Y	spp	gutsar	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.00	1	<i>Gutierrezia sarothrae</i>		
	Y	spp	hetvil	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Heterotheca villosa var villosa</i>		
	Y	spp	junint	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0.10	2	<i>Juncus interior</i>		
	N	spp	medsat	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Medicago sativa</i>		
	Y	spp	muhmon	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0.00	2	<i>Muhlenbergia montana</i>		
	Y	spp	opupol	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.00	1	<i>Opuntia polyacantha</i>		
	Y	spp	oxastr	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0.05	1	<i>Oxalis stricta</i>		
	Y	spp	panvir	2	0	0.5	0	0	0	0	0	0	0	0	1	1	1	0.25	4	<i>Panicum virgatum</i>		
	Y	spp	panvir	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Panicum virgatum</i>		
	Y	spp	phahas	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Phacelia hastata</i>		
	Y	spp	pinpon	0	0	0	50	10	95	0	0	0	0	1	0	1	1	0.01	5	<i>Pinus ponderosa</i>		
	Y	spp	poacom	55	20	15	0	0	20	55	30	0	0	0	1	1	1	19.50	8	<i>Poa compressa</i>		
	N	spp	poapra	0	6	3	0	0	0	0.5	2	2	4	1	1	1	1	0.05	9	<i>Poa pratensis</i>		
	Y	spp	poldou	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.20	1	<i>Polygonum douglasii</i>		
	Y	spp	pruame	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Prunus americana</i>		
	Y	spp	psoten	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Psoralea tenuiflora</i>		
	Y	spp	rhutri	0	0	0	0	0.5	0	0	0	0	0	0	0	1	1	0.00	2	<i>Rhus trilobata</i>		
	Y	spp	ribcer	0	0	0	0	15	0	0	0	0	0	0	0	1	1	0.03	2	<i>Ribes cereum</i>		
	Y	spp	sticom	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Stipa comata</i>		
	N	spp	tradub	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.01	0	<i>Tragopogon dubius</i>		
	U	spp	ukfo2a	4	4	0	0	0	4	6	1	0	0	0	1	1	1	0.01	7	<i>Unknown Forb 2a</i>		
	U	spp	ukfor2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.06	0	<i>Unknown Forb 2</i>		
	N	spp	vertha	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.00	1	<i>Verbascum thapsus</i>		
<SUMMARY>				SITE TOTAL														SITE TOTAL				
Total % Cover* (including soil, litter, ...etc)				113.30	96.5	55	95.5	187	101.5	219	130.5	56	95	97	N/A				Total % Cover			
Total % Cover of All Species*				55.4	61.5	33	35.5	105	36.5	144	65.5	36	25	12	N/A				Total Spp % Cover			
Number of Native Species (in 1 m ² subplots)				31 (16)	3	2	4	3	5	5	2	5	3	4	7	7	14	25	Number of Native Species			
Total % Cover of Native Species*				24.735	57.5	23	32.5	105	36.5	140	59	33	22.5	8	N/A				Native Spp % Cover			
Number of Introduced Species (in 1 m ² subplots)				7 (3)	0	1	1	0	0	0	1	1	2	1	4	1	4	5	# of Exotic Spp			
Total % Cover of Introduced Species*				0.105	0	6	3	0	0	0	0.5	2	2.5	4	N/A				Exotic Spp % Cover			
Number of Species with < 1 % Average Cover				20	1	0	1	0	1	0	1	2	2	2	N/A				# of Spp < 1% Cover			
Number of Species Found Only in One Subplot				15	0	0	1	0	1	0	0	0	0	0	1	1	0	11	# of Spp only in 1 subplot			
Number of Unknown Species				2	1	1	0	0	0	1	1	1	0	0	0	1	1	2	# of Unknown Spp			
Total Number of Species (in 1 m ² subplots)				91 (22)	4	4	5	3	5	6	4	7	5	5	11	9	19	91	Total # of Spp			

Date: 8.11.00
 Recorder: EP/MW
 Collector: MW
 Site: Walker #2
 File Name:
 GPS:

Start Time:	End Time:	Number of Species						
		% AVG Cover	Native	Introduced	Total			
		<1 %	31	2	36			
		1-5 %	3	1	4			
		6-25 %	1	0	1			
		26-75 %	1	0	1			
		> 75 %	0	0	0			
		occured only in A,B,C, or K	18	0	20			

5 most dominant species (in % AVG cover)				
Species	% Avg cover	Freq.	Native? (Y=Native, N=introduced)	
<i>Pinus ponderosa</i>	29.10	7	Y	Y
<i>Arctostaphylos uva-ursi</i>	5.70	3	Y	Y
<i>Antennaria rosea</i>	2.80	2	Y	Y
<i>Carex geophila</i>	2.10	11	Y	Y
<i>Poa pratensis</i>	1.50	4		N

Comments	N1	type	Species	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K	% AVG cover	Freq.	Species
		n	rock	0	0	2	0	0	2	0	4	1	0							Rock
N1: Y=Native, N=Exotic, U=Unknown		n	soil	0	4	0	0	2	45	0	80	0	2							Bare Soil
E.G: F(Forb), G(Grass, Grass-like), S(Shrub, Subshrub) T(Tree)		n	lit	7	12	4	65	75	55	55	23	90	90							Litter
A.P: A(Annual), P(Perennial), E(Evergreen)		n	duff	0	0	0	0	0	0	0	0	0	0							Duff (thick litter)
		n	poop	0	0	100	0	0	0	0	0	0	0							Moose
		n	wood	0	0	0	0	0	0	0	0	0	0							Wood
		n	water	0	0	0	0	0	0	0	0	0	0							Standing Water
	Y	app	achlan	1	0	0	3	0	0.5	0	1	0.5	4	1	0	1	1	0.12	8	<i>Achillea lanulosa</i>
	Y	app	agrdas	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0.01	1	<i>Agropyron dasytachyum</i>
	Y	app	allcer	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.25	2	<i>Allium cernuum</i>
	Y	app	ambpsi	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Ambrosia psilostachya</i>
	Y	app	amelan	0	0.5	0	0	0	0	0	0	0	0	0	0	0	1	0.05	1	<i>Amerosedum laceolatum</i>
	Y	app	antras	0	28	0	0	0	0	0	0	0	0	0	1	0	1	2.80	2	<i>Antennaria rosea</i>
	Y	app	arcuva	12	0	0	0	0	0	45	0	0	0	0	0	1	1	5.70	3	<i>Arctostaphylos uva-ursi</i>
	Y	app	artfri	0	0	0	0	0	0.5	0	0	0	0	0	0	1	1	0.05	2	<i>Artemisia frigida</i>
	Y	app	artilud	0	0	1	0	5	0	2	0	0.5	0	0	1	1	1	0.00	6	<i>Artemisia ludoviciana</i>
	Y	app	astfle	1	0	0	0.5	1	0	0	0	0	0	1	0	0	1	0.05	4	<i>Astragalus flexuosus</i>
	#N/A	app	astpor	0.5	0.5	0	0	0	0	0	0	0	0	0	1	1	1	0.05	4	#N/A
	Y	app	boefen	0.5	0	0	0	0	0	0	0	0	0	0	0	0	1	0.05	1	<i>Boechera fendleri</i>
	Y	app	broano	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.00	1	<i>Bromus anomalus</i>
	N	app	brotec	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Bromus tectorum</i>
	Y	app	camrot	0.5	0	0	0	0	0	0	0	0	0	0	0	1	1	0.05	2	<i>Campanula rotundifolia</i>
	Y	app	camrot	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.00	1	<i>Campanula rotundifolia</i>
	Y	app	cargeo	5	2	6	4	0	1	1	0	1	1	1	1	1	1	2.10	11	<i>Carex geophila</i>
	N	app	carnat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.15	0	<i>Carex nutans</i>
	Y	app	carxer	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Carex serotica</i>
	Y	app	ceafen	40	0	40	0	5	1	0	1	0	0	1	1	1	1	0.00	8	<i>Ceanothus fendleri</i>
	Y	app	cerstr	0	0.5	1	0	0	0	0	0	0.5	0	0	1	1	1	0.10	5	<i>Cerastium strictum</i>
	Y	app	chelep	0	0	0	0	0	0	0	0.5	0	0	0	1	1	1	0.05	3	<i>Chenopodium leptophyllum</i>
	Y	app	cirund	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.00	1	<i>Cirsium undulatum</i>
	Y	app	culpar	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Collinsia parviflora</i>
	Y	app	comumb	0	0	0.5	0	0	0.5	0	0.5	0	0	1	0	1	1	0.05	5	<i>Comandra umbellata</i>
	Y	app	cryvir	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0.10	2	<i>Cryptantha virgata</i>
	Y	app	dryfls	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.00	1	<i>Dryocalis flexa</i>
	Y	app	elyely	0	0	0	1	2	0	0	0	0	0	1	1	1	1	0.30	5	<i>Elymus elymoides</i>
	Y	app	elylon	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.01	1	<i>Elymus longifolius</i>
	Y	app	eriumb	0	1	3	0	0	0	0	0	0	0	1	1	1	1	0.40	5	<i>Eriogonum umbellatum</i>
	Y	app	eryasp	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.05	0	<i>Erysimum asperum</i>
	Y	app	fessax	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.20	1	<i>Festuca saximontana</i>
	Y	app	gaiari	0	0	0	0	0	0.5	0	0	0	0	0	0	1	1	0.05	2	<i>Gaillardia aristata</i>
	Y	app	gercae	2	0.5	0	3	0.5	0	0	2	0	0	1	1	1	1	0.80	8	<i>Geranium caespitosum</i>
	#N/A	app	griaqu	0.5	0	0	0	0	0	0	0	0	0	1	0	0	1	0.05	2	#N/A
	Y	app	hartra	0	3	0.5	0	0	2	0.5	1	1	0	0	1	1	1	0.03	8	<i>Harbortia truckypleura</i>
	Y	app	hetvil	0	3	0	4	2	0	0	0	0	1	1	1	1	1	1.00	7	<i>Heterotheca villosa var villosa</i>
	Y	app	koemac	1	2	0	0	0	2	3	0	0.5	1	0	0	1	1	0.01	7	<i>Koeleria macrantha</i>
	Y	app	lesmon	0	0	0	0	0.5	0	0	0	0	0	0	0	1	0	0.01	2	<i>Lexquerella montana</i>
	Y	app	leukin	0	0	0	0	0	0	0	2	3	0	0	0	1	0	0.06	3	<i>Leucopoa kingii</i>
	Y	app	leyamb	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Leymus ambiguus</i>
	Y	app	liapun	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.02	0	<i>Liatis punctata</i>
	#N/A	app	lichen	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	1	#N/A
	Y	app	merlan	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0.01	1	<i>Mertensia lanceolata</i>
	Y	app	muhmon	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0.10	3	<i>Muhlenbergia montana</i>
	Y	app	olipac	0	4	0	0	0	0.5	0	0	0	0	0	0	1	1	0.00	3	<i>Oligosporus pacificus</i>
	Y	app	ortlut	0	0.5	0	0	0	0	0	0	0	0	0	0	0	1	0.00	1	<i>Orthocarpus luteus</i>
	Y	app	oxydef	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Oxytropis deflexa var. Sericea</i>
	Y	app	oxylam	0.5	0	0	0	0	0	0	0	0	0	1	0	0	1	0.05	2	<i>Oxytropis lambertii</i>
	Y	app	penvir	0	0	0	0	0	0.5	0	0	0	0	0	0	0	1	0.05	1	<i>Penstemon virans</i>
	Y	app	phahas	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Phacelia hastata</i>
	Y	app	pinpon	0	0	0	0	15	6	45	85	60	80	0	0	1	1	29.10	7	<i>Pinus ponderosa</i>
	Y	app	poacom	0	1	0	8	0	0	0	0	0	0	1	0	1	1	0.90	4	<i>Poa compressa</i>
	N	app	poapra	15	0	0	0	0	0	0	0	0	0	1	1	1	1	1.50	4	<i>Poa pratensis</i>

Date: 7,11,00
 Recorder: EP
 Collector: MW
 Site: Walker #3
 File Name:
 GPS:

	% AVG Cover	Native	Introduced	Total
Start Time:	<1 %	25	0	29
End Time:	1-5 %	4	0	4
	6-25 %	0	0	0
	26-75 %	1	0	1
	> 75 %	0	0	0
	occured only in A,B,C, or K	27	0	32

5 most dominant species (in % AVG cover)

Species	% Avg cover	Freq.	Native? (Y=Native, N=introduced)
<i>Pinus ponderosa</i>	27.80	8	Y
<i>Leucopoa kingii</i>	4.00	8	Y
<i>Ribes cereum</i>	3.55	3	Y
<i>Carex geophila</i>	1.35	10	Y
<i>Ceanothus fendleri</i>	1.20	2	Y

Comments	N1	type	Species	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K	% AVG cover	Freq.	Species
		n	rock	0	0	0	0	0	0	0	0	0	0							Rock
N1: Y=Native, N=Exotic, U=Unknown		n	soil	0	0	0	0	0	0	0	4	0	2	23						Bare Soil
F.G: F(Forb), G(Grass, Grass like), S(Shrub, Subshrub) T(Tree)		n	lit	95	92	90	70	95	80	55	55	85	60							Litter
AP: A(Annual), P(Perennial), E(Evergreen)		n	duff	0	0	0	0	0	0	0	0	0	0							Duff (black litter)
		n	poop	0	0	0	0	0	0	0	0	0	0							Mature
		n	wood	0	0	0	0	0	0	0	0	0	0							Wood
		n	wat	0	0	0	0	0	0	0	0	0	0							Standing Water
	#N/A	spp	1000 hr	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0.09	1	#N/A
	Y	spp	achmil	0	0.5	0	0	0	0.5	0	0	0	0	1	1	1	1	0.10	5	<i>Achillea millefolium</i>
	Y	spp	agrspi	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0.01	1	<i>Agropyron spicatum</i>
	Y	spp	allcer	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Allium cernuum</i>
	Y	spp	amelan	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0.10	2	<i>Amerosedum laceolatum</i>
	Y	spp	antrou	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.00	1	<i>Antennaria rosea</i>
	Y	spp	apoand	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Apocynum androsaemifolium</i>
	Y	spp	arcuva	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.00	1	<i>Arctostaphylos uva-ursi</i>
	Y	spp	artfri	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0.10	2	<i>Artemisia frigida</i>
	Y	spp	artlud	0.5	0	0	0	0	2	2	0	0	0.5	0	1	1	1	0.50	0	<i>Artemisia ludoviciana</i>
	Y	spp	astads	0	4	0	0	0	0	0	2	0	0	0	1	1	1	0.60	4	<i>Aster subcandens</i>
	Y	spp	astfle	0	0	0	0	0	0	0	0.5	0	0	0	0	1	1	0.05	2	<i>Astragalus flexuosus</i>
	Y	spp	astmix	0	0	5	0	0	0	0	0	3	0	0	0	0	1	0.80	2	<i>Astragalus miser</i>
	#N/A	spp	astpar	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0.20	2	#N/A
	#N/A	spp	astpor	0	0.5	0	0	0	0	1	1	0	0	0	1	0	1	0.25	4	#N/A
	Y	spp	astten	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	<i>Astragalus tenellus</i>
	Y	spp	boespp	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.00	1	<i>Bocchera species</i>
	N	spp	broine	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Bromus inermis</i>
	Y	spp	bucdac	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.00	1	<i>Buchloe dactyloides</i>
	Y	spp	cargeo	0	0	1	0.5	2	5	1	2	2	0	1	1	1	1	1.35	10	<i>Carex geophila</i>
	Y	spp	caslin	0	0.5	0	0	0	0	3	1	0	0	0	0	0	1	0.25	4	<i>Castilleja linariaefolia</i>
	N	spp	centif	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Centaurea diffusa</i>
	Y	spp	ceafen	0	0	0	0	12	0	0	0	0	0	0	0	1	1	1.20	2	<i>Ceanothus fendleri</i>
	Y	spp	cerstr	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.00	2	<i>Cerastium strictum</i>
	Y	spp	cormac	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Coralorrhiza macrantha</i>
	Y	spp	cryvir	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Cryptantha virgata</i>
	Y	spp	danint	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Danthonia intermedia</i>
	Y	spp	dryfis	0	0	0	0	0	0	0	0	0.5	0.5	1	1	0	1	0.10	4	<i>Drymocalis fava</i>
	Y	spp	elyely	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Elymus elymoides</i>
	Y	spp	erifa	0	0	0	0	0	0	0.5	0	0	0	0	0	1	1	0.05	2	<i>Eriogonum flavum</i>
	Y	spp	erisub	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.02	1	<i>Eriogonum vultrincris</i>
	Y	spp	eriumb	0	0	0	0	0	0.5	0	0	0	0	0	0	0	1	0.05	1	<i>Eriogonum umbellatum</i>
	Y	spp	eryasp	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Erysimum asperum</i>
	Y	spp	essax	2	0	0.5	0	0	0	0	0	0	0	0	0	0	1	0.25	2	<i>Festuca saximontana</i>
	U	spp	ukforbl	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.00	1	Unknown Forb 1
	Y	spp	fraspe	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Fragaria speciosa</i>
	Y	spp	gaiari	0	3	0	0	0	0	0	0	0	0	0	1	0	1	0.30	2	<i>Gaillardia aristata</i>
	Y	spp	galtri	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Gallium triflorum</i>
	Y	spp	gercae	0	0.5	0	1	0	0.5	2	0	0	0	1	1	1	1	0.40	7	<i>Geranium caespitosum</i>
	Y	spp	grisuq	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Grindelia squarrosa</i>
	Y	spp	hartra	1	0.5	1	0	0.5	0.5	1	1	1	0.5	1	1	1	1	0.70	12	<i>Harbouria trachyleura</i>
	#N/A	spp	helpet	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.00	1	#N/A
	Y	spp	hetvil	0	1	0	0	0	0	1	2	0	0	0	1	1	1	0.40	5	<i>Heterotheca villosa var villosa</i>
	Y	spp	irimis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Iris missouriensis</i>
	Y	spp	juncom	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Juniperus communis</i>
	Y	spp	koemac	2	0	0.5	0	0	0.5	0.5	2	1	0	1	1	1	1	0.65	9	<i>Koeleria macrantha</i>
	Y	spp	lesmon	0	0.5	0	0	0	0	0	0	0	0	0	0	0	1	0.05	1	<i>Lesquerella montana</i>
	Y	spp	leukin	5	0	3	5	0	23	0	0	0	4	1	1	1	1	4.00	8	<i>Leucopoa kingii</i>
	Y	spp	litinc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	<i>Lithospermum incisum</i>
	Y	spp	luparg	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Lupinus argenteus</i>
	Y	spp	merlan	0.5	0	0	0	0	0.5	0	0.5	0	0	1	0	0	1	0.15	4	<i>Mertensia lanceolata</i>
	#N/A	spp	moss	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0.04	1	#N/A
	Y	spp	olipac	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Oligosporus pacificus</i>
	Y	spp	oxylam	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Oxytropis lambertii</i>

Date: 7.11.00

Recorder: EP

Collector: MW

Site: Walker #4

File Name:

GPS:

Number of Species

5 most dominant species (in % AVG cover)

Start Time:	% AVG Cover	Native	Introduced	Total	5 most dominant species (in % AVG cover)				
					Species	% Avg cover	Freq.	Native?	(Y=Native, N=introduced)
End Time:	< 1 %	31	2	35	<i>Pseudotsuga menziesii</i>	9.90	1		Y
	1-5 %	1	0	1	<i>Ribes cereum</i>	9.45	5		Y
	6-25 %	3	0	3	<i>Arctostaphylos uva-ursi</i>	7.40	4		Y
	26-75 %	0	0	0	<i>Pinus ponderosa</i>	1.50	2		Y
	> 75 %	0	0	0	<i>Penstemon virens</i>	0.65	8		Y

occured only in A, B, C, or K

Comments	N1	type	Species	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K	% AVG cover	Freq.	Species
		n	rock	0	0	0	0	3	0	32	15	0	0							Rock
		n	soil	3	40	10	0	11	3	6	1	0	11							Bare Soil
N1: Y=Native, N=Exotic, U=Unknown		n	lit	80	40	40	33	28	18	65	50	55	27							Litter
FG: F(Forb), G(Grass, Grass-like), S(Shrub, Subshrub) T(Tree)		n	duff	0	0	0	0	0	0	0	0	0	0							Duff (black litter)
AP: A(Annual), P(Perennial), E(Evergreen)		n	poop	0	0	0	0	2	0	0	0	0	0							Manure
		n	wood	0	0	0	0	0	0	0	0	0	0							Wood
		n	watr	0	0	0	0	0	0	0	0	0	0							Standing Water
	Y	app	achmil	0	0	0	2	0	0.5	0.5	0	0	0	1	0	1	1	0.12	5	<i>Achillea millefolium</i>
	Y	app	agrdas	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.01	1	<i>Agropyron dasystachyum</i>
	Y	app	amelan	0	0.5	0	0	0	0	0.5	0	0	0	1	1	1	1	0.25	5	<i>Amerosedum laccolatum</i>
	Y	app	andsep	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.00	2	<i>Androsace septentrionalis</i>
	Y	app	antros	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Antennaria rosea</i>
	Y	app	apoand	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.00	2	<i>Apocynum androsaemifolium</i>
	Y	app	arahir	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Arabis hirsuta</i>
	Y	app	arcuva	0	0	13	31	0	30	0	0	0	0	0	0	1	1	7.40	4	<i>Arctostaphylos uva-ursi</i>
	Y	app	artfri	1	0	0.5	0	4	0	0	0	0	2	1	1	1	1	0.00	7	<i>Artemisia frigida</i>
	Y	app	artlad	0	0	0.5	0	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	1	0.05	10	<i>Artemisia ludoviciana</i>
	Y	app	astads	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.05	1	<i>Aster adscendeus</i>
	Y	app	astfle	0	4	0	0	0	0	0	0	0	0	0	1	1	1	0.40	3	<i>Astragalus flexuosus</i>
	#N/A	app	astpor	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.00	3	#N/A
	#N/A	app	broian	0	0	0	0	0	0	0	0	2	0	1	0	1	1	0.20	3	#N/A
	N	app	broiec	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.05	2	<i>Bromus tectorum</i>
	Y	app	camrot	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Campanula rotundifolia</i>
	Y	app	cargeo	1	0	1	0	2	0	2	0	0	0	1	1	1	1	0.60	7	<i>Carex geophila</i>
	N	app	carnut	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.15	1	<i>Carex nutans</i>
	Y	app	carocc	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Carex occidentalis</i>
	Y	app	carspp	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.00	1	<i>Caryophyllaceae species</i>
	Y	app	ceafen	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.10	1	<i>Ceanothus fendleri</i>
	Y	app	cerstr	0	0	0	3	0	0.5	0	0	0	0	0	0	0	1	0.35	2	<i>Cerastium strictum</i>
	Y	app	chelep	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Chenopodium leptophyllum</i>
	Y	app	colpar	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.00	2	<i>Collinsia parviflora</i>
	Y	app	coraur	0	0	0	0	0	0	0	0	0	0.5	0	0	1	1	0.05	2	<i>Corydalis aurea</i>
	Y	app	dryfls	0	0	0	0	0	0.5	0	0	0	0	0	0	1	1	0.05	2	<i>Dryocalis flexa</i>
	Y	app	erifla	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.00	2	<i>Eriogonum flavum</i>
	Y	app	erisub	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.00	1	<i>Eriogonum subtrincervis</i>
	Y	app	eriumb	0	0	0	6	4	0	0.5	0	0	0	0	0	1	1	0.01	4	<i>Eriogonum umbellatum</i>
	Y	app	eryasp	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Erysimum asperum</i>
	Y	app	fessax	0	0	0.5	0	0	0	0	0	0	0	1	1	1	1	0.05	4	<i>Festuca saximontana</i>
	Y	app	galari	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0.20	2	<i>Gaillardia aristata</i>
	Y	app	gercae	1	0	0	0	0	0	0	2	0	0	1	0	1	1	0.30	4	<i>Geranium caespitosum</i>
	Y	app	grisqu	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Grindelia squarrosa</i>
	Y	app	harira	0.5	0.5	0	0	0	0	0	0	0	0	0	1	1	1	0.10	4	<i>Harbouria trachyleura</i>
	#N/A	app	helpet	0	0	0	0	0	0.5	0	0	0	0	0	0	0	1	0.03	1	#N/A
	Y	app	hetvil	0.5	0	0	0	0	0	0.5	0	0	2	1	1	1	1	0.30	6	<i>Heterotheca villosa var villosa</i>
	Y	app	ipoagg	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.01	1	<i>Ipomopsis aggregata</i>
	Y	app	koemac	0	0	0	0	0	0	0	0	0	2	1	0	1	1	0.01	3	<i>Koeleria macrantha</i>
	Y	app	leukin	5	0	0	0	2	3	0	2	0	0	0	0	1	1	0.06	5	<i>Leucopoa kingii</i>
	#N/A	app	mentzeli	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	#N/A
	Y	app	merlan	0	0	0	0	1	0	0	0	0	0	0	1	1	1	0.02	3	<i>Mertensia lanceolata</i>
	Y	app	muhmon	1	4	0.5	18	8	0	3	1	0	12	1	1	1	1	0.03	11	<i>Muhlenbergia montana</i>
	Y	app	oilpac	0	0	0	0	1	0	0.5	0	0	0.5	0	1	1	1	0.01	5	<i>Oligosporus pacificus</i>
	Y	app	pacfen	0	0	0	0	0	0	0.5	0	0	0	0	0	1	1	0.05	2	<i>Packera fendleri</i>
	Y	app	agrsmi	0	0	0	0	0	0.5	0	0	0	0	0	0	0	1	0.00	1	<i>Agropyron smithii</i>
	Y	app	penstr	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Penstemon strictus</i>
	Y	app	penvir	1	0	0.5	0	2	0	1	0	0	2	1	1	1	1	0.65	8	<i>Penstemon virens</i>
	Y	app	phabas	0	0	0	0	0	0	0	0.5	0	0	0	0	1	1	0.05	2	<i>Phacelia hastata</i>
	Y	app	pinpon	15	0	0	0	0	0	0	0	0	0	0	0	1	1	1.50	2	<i>Pinus ponderosa</i>
	N	app	poapra	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0.00	2	<i>Poa pratensis</i>
	Y	app	pruvir	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Prunus virginiana</i>
	Y	app	psemen	0	0	0	0	0	0	0	99	0	0	0	0	0	1	9.90	1	<i>Pseudotsuga menziesii</i>
	Y	app	pulpat	1	0	1	0	0.5	0	2	0	0	0.5	1	1	1	1	0.50	8	<i>Pubatilla patens</i>

	Y	app	ribeer	0	0	0	9	0	0	0.5	0	85	0	1	0	1	1	9.45	5	<i>Ribes cereum</i>
	Y	app	scubri	0	0	0	0	0.5	0	0	0	0	0.5	0	0	1	1	0.10	3	<i>Scutellaria brittonii</i>
	Y	app	smiste	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.03	1	<i>Smilacina stellata</i>
	Y	app	solmis	0	0	0	0	0.5	1	0	0	0	0	1	1	1	1	0.15	5	<i>Solidago missouriensis</i>
	Y	app	stivir	0	0	0	0	0	0	0	0	0.5	0	0	0	0	1	0.05	1	<i>Stipa viridula</i>
	U	app	ukmust	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.00	2	<i>Unknown mustard</i>
	N	app	vertha	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.00	1	<i>Verbascum thapsus</i>
<SUMMARY>			SITE TOTAL	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K		SITE TOTAL	
Total % Cover* (including soil, litter, ...etc)			100.70	120	89	67.5	105	75	58	116	169	146.5	61	N/A				Total % Cover		
Total % Cover of All Species*			42.2	27	9	17.5	70	31	37	13	103	91.5	23	N/A				Total Spp % Cover		
Number of Native Species (in 1 m ² subplots)			52 (35)	10	4	8	6	12	8	13	5	5	10	17	19	43	52		Number of Native Species	
Total % Cover of Native Species*			32.9308	27	9	17.5	69	31	36.5	13	103	88.5	23	N/A				Native Spp % Cover		
Number of Introduced Species (in 1 m ² subplots)			4 (2)	0	0	0	1	0	0	0	0	1	0	2	0	2	4		# of Exotic Spp	
Total % Cover of Introduced Species*			0.2	0	0	0	1	0	0	0	0	1	0	N/A				Exotic Spp % Cover		
Number of Species with < 1 % Average Cover			35	2	2	5	0	4	6	8	2	3	4	N/A				# of Spp < 1% Cover		
Number of Species Found Only in One Subplot			23	0	0	0	0	0	2	0	1	1	0	2	4	13	0		# of Spp only in 1 subplot	
Number of Unknown Species			1	0	0	0	0	0	0	0	0	0	0	1	0	1	1		# of Unknown Spp	
Total Number of Species (in 1 m ² subplots)			91 (39)	10	4	8	7	12	9	13	5	7	10	22	20	49	91		Total # of Spp	

Date: 7,11,00
 Recorder: EP/MW
 Collector: MW
 Site: Walker #5
 File Name:
 GPS:

Start Time:
 End Time:

Number of Species			
% AVG Cover	Native	Introduced	Total
< 1 %	30	0	33
1-5 %	2	1	3
6-25 %	1	0	1
26-75%	0	0	0
> 75 %	0	0	0
occured only in A,B,C, or K			14
			0
			16

5 most dominant species (in % AVG cover)

Species	% Avg cover	Freq.	Native? (Y=Native, N=introduced)
<i>Heterotheca villosa var villosa</i>	5.30	9	Y
<i>Agropyron smithii</i>	4.50	11	Y
<i>Leucopoa kingii</i>	2.40	4	Y
<i>Verbascum thapsus</i>	1.00	3	N
<i>Astragalus flexuosus</i>	0.90	10	Y

Comments	N1	type	Species	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K	% AVG cover	Freq.	Species	
		n	rock	0	4	0	0	0	4	4	3	0	2							Rock	
		n	soil	78	90	15	78	95	63	78	55	70	45							Bare Soil	
		n	lit	0	0	0	0	0	0	0	0	0	0							Litter	
		n	duff	0	0	0	0	0	0	0	0	0	0							Duff (thck litter)	
		n	poop	0	0	0	0	0	0	0	0	0	0							Munze	
		n	wood	0	0	0	0	0	0	0	0	0	0							Wood	
		n	water	0	0	0	0	0	0	0	0	0	0							Standing Water	
		Y	spp	achmil	0	1	0	0.5	0	1	1	0	0	0	0	0	1	1	0.12	6	<i>Achillea millefolium</i>
		Y	spp	allcer	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.01	1	<i>Allium cernuum</i>
		Y	spp	amelan	0	0.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0.25	2	<i>Amerosedum laceolatum</i>
		Y	spp	antros	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Antennaria rosea</i>
		Y	spp	artfri	0	0.5	0	0	1	0	0	2	0.5	0.5	1	0	1	1	0.45	7	<i>Artemisia frigida</i>
		Y	spp	artlud	0	0	0	0.5	0	0	0	0	0	0	0	1	0	1	0.05	2	<i>Artemisia ludoviciana</i>
		Y	spp	astfle	0	1	1	0	2	0.5	1	2	1	0.5	1	0	1	1	0.90	10	<i>Astragalus flexuosus</i>
		N/A	spp	astpor	0	0.5	0	0	0	0	0	0	0	0	0	0	0	1	0.05	1	N/A
		Y	spp	boefen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	1	<i>Bocchera fendleri</i>
		Y	spp	bougra	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0.05	1	<i>Bouteloua gracilis</i>
		Y	spp	cargeo	0	1	55	0	3	1	1	26	2	0	0	1	1	1	0.05	9	<i>Carex geophila</i>
		Y	spp	caslin	0	1	0	0	2	3	0	0	0	0	1	0	0	1	0.60	4	<i>Castilleja linariaefolia</i>
		Y	spp	ceufen	0	28	0	0	0	13	0	0	0	0	1	0	1	1	0.00	4	<i>Ceanothus fendleri</i>
		Y	spp	cerstr	0	0	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0.20	3	<i>Cerastium strictum</i>
		Y	spp	cirund	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0.05	2	<i>Cirsium undulatum</i>
		Y	spp	cryvir	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Cryptantha virgata</i>
		Y	spp	dryfls	0	0	0	1	0	0	0	0	0	0.5	0	1	0	1	0.15	3	<i>Drymocalis fissa</i>
		Y	spp	elyely	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.15	1	<i>Elymus elymoides</i>
		Y	spp	eriumb	0	0	0	0	0	0.5	1	0	0	0	0	1	0	1	0.00	3	<i>Eriogonum umbellatum</i>
		Y	spp	eryasp	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Erysimum asperum</i>
		Y	spp	galari	0	0.5	0	0	0	0.5	0	0	0	0	0	0	0	1	0.10	2	<i>Gaillardia aristata</i>
		Y	spp	gercae	0	2	0	2	0.5	0.5	0.5	0	0	0.5	1	1	1	1	0.60	9	<i>Geranium caespitosum</i>
		Y	spp	grisqu	0	0.5	0	0	0	0.5	0	0	0	0.5	0	0	1	1	0.00	4	<i>Grindelia squarrosa</i>
		Y	spp	hartira	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.00	1	<i>Harboaria trackypleura</i>
		N/A	spp	heltel	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.05	0	N/A
		Y	spp	hetsil	0	0.5	6	0	0.5	0	17	22	3	4	1	0	1	1	5.30	9	<i>Heterotheca villosa var villosa</i>
		Y	spp	juncom	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Juniperus communis</i>
		Y	spp	junsco	0	0	0	0	0	0	0	0	0	0.5	0	0	1	1	0.05	2	<i>Juniperus scopulorum</i>
		Y	spp	koemac	0	2	0	0	0.5	0	2	0	1	3	0	0	1	1	0.01	6	<i>Koeleria macrantha</i>
		Y	spp	leukin	0	0	0	18	5	1	0	0	0	1	0	0	1	2.40	4	<i>Leucopoa kingii</i>	
		Y	spp	merlan	0	0.5	0	0	0	0	0.5	0	0	0	0	0	0	0	0.05	2	<i>Mertensia lanceolata</i>
		Y	spp	monfis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.20	0	<i>Monarda fistulosa var. mollis</i>
		Y	spp	muhmon	0	0	0	0	0	0	3	0	0	0	1	0	1	1	0.30	3	<i>Muhlenbergia montana</i>
		Y	spp	mullfl	0	0	0	0	0	0	0	0	0	4	0	0	0	1	0.40	1	<i>Muhlenbergia filicalmis</i>
		Y	spp	agrsmi	16	7	4	0	3	0.5	1	0.5	12	1	0	1	1	1	4.50	11	<i>Agropyron smithii</i>
		Y	spp	penvir	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0.03	2	<i>Penstemon virens</i>
		Y	spp	penvirg	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.00	1	<i>Penstemon virgatus</i>
		Y	spp	phlhoo	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0.01	1	<i>Phlox hoodii</i>
		Y	spp	pinpon	28	65	0	40	65	0	0	0	0	0	0	0	0	1	0.01	4	<i>Pinus ponderosa</i>
		Y	spp	poacomp	0	0	0	0	0	0	1	0.5	0	0	0	0	0	1	0.06	2	<i>Poa compressa</i>
		N	spp	poapra	0	7	0	7	0	0.5	0.5	0	2	0	1	1	1	1	0.00	8	<i>Poa pratensis</i>
		Y	spp	pothip	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0.02	1	<i>Potentilla hippiana</i>
		Y	spp	pruvir	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.03	1	<i>Prunus virginiana</i>
		Y	spp	ribcer	0	0	0	0	0	0	0	0	10	0	1	1	1	1	0.01	3	<i>Ribes cereum</i>
		Y	spp	roswoo	1	0	2	0	0	0.5	0.5	0	2	1	0	1	1	1	0.70	8	<i>Rosa woodii</i>
		Y	spp	rubdel	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.00	2	<i>Rubus deliciosus</i>
		Y	spp	scubri	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.00	1	<i>Scutellaria brittonii</i>
		Y	spp	solmis	0	0	1	1	0	0	0	0	1	1	1	1	1	1	0.30	6	<i>Solidago missouriensis</i>
		Y	spp	spocry	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00	0	<i>Sporobolus cryptandrus</i>

	Y	app	ativir	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0.00	2	<i>Stipa viridula</i>
	N	app	tradub	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.00	1	<i>Trigopogon dubius</i>
	N	app	vertha	7	0	0	0	0	3	0	0	0	0	1	0	0	1	1.00	3	<i>Verbasum thapsus</i>
<SUMMARY>			SITE TOTAL	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	A	B	C	K		SITE TOTAL	
Total % Cover* (including soil, litter, ...etc)			125.20	130.5	213.5	84	148.5	177.5	96	112.5	115	93.5	81	N/A					Total % Cover	
Total % Cover of All Species*			56.6	52.5	119.5	69	70.5	82.5	27	30.5	57	23.5	34	N/A					Total Spp % Cover	
Number of Native Species (in 1 m ² subplots)			47 (33)	4	17	6	8	10	14	13	9	7	16	12	11	20	38		Number of Native Species	
Total % Cover of Native Species*			18.0808	45.5	112	69	63.5	82.5	23.5	30	57	21.5	34	N/A					Native Spp % Cover	
Number of Introduced Species (in 1 m ² subplots)			3 (1)	1	1	0	1	0	2	1	0	1	0	2	1	2	2		# of Exotic Spp	
Total % Cover of Introduced Species*			1	7	7	0	7	0	3.5	0.5	0	2	0	N/A					Exotic Spp % Cover	
Number of Species with < 1 % Average Cover			33	1	9	0	3	3	10	5	2	1	6	N/A					# of Spp < 1% Cover	
Number of Species Found Only in One Subplot			14	0	1	0	0	0	0	0	1	0	1	2	0	2	7		# of Spp only in 1 subplot	
Number of Unknown Species			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		# of Unknown Spp	
Total Number of Species (in 1 m ² subplots)			91 (37)	5	19	6	9	10	16	14	9	8	16	14	12	22	91		Total # of Spp	