

Vegetation - Soil Condition

Definitions

1. Quadrat Size 2 feet square (4 square feet)
2. Management Area. Livestock grazing allotment, watershed, big game herd area, forest management working circle etc
3. Unit A subdivision of the management area. A pasture in a grazing allotment.
4. Site impacts Includes man uses livestock grazing, timber cutting, mining, recreation etc and natural forces such as fire, rodents, insects etc.

Enter specific causes - sheep grazing, deer use, Arago websteri, prairie dogs, ^{man} trampling, cholla burst, tractor logging, clear cutting etc.

5. Erosion

Refers to sheet erosion

6. ^{Litter} abbreviations

E_x = Excellent
 F = Fair
 G = Good
 H = Heavy
 L = Light
 M = Moderate
 N = None
 P = Poor

Ex = Exclusion
 Fst = Fast
 Sl = slow

7. Fasc.

Fascicle. A tuft of stems and leaves that emerge from a single bud. See pages 7 & 8 fascicle size for different species.

Litter

Leaves, needles and fine stems and twigs on ground surface detached from plant (stem debris)

Detritus

Dead organic matter ^{on ground surface}, such as wood bark, cow and horse dung one square inch in size or greater and one half inch or greater wide in the short dimension - The diameter of a branch for example.

Rock (particle)

A fragment one square inch in area or larger

T R E N D

<u>Symbols</u>	<u>Definitions</u>	<u>Symbols</u>	<u>Definitions</u>
A	abundant	Mg	management (livestock)
B	borderline entry	N	normal
C	cattle	R	rodents
Co	competition (plant)	S	sheep
D	deer	Se	seeding, seeded
Ds	disease (plant)	Sl	seedling
E	elk	Spr	sprayed
F	fire	T	trace
G	goats	U	ungrazed
Gr	grazed	V	very
H	horses	W	weather
Hg	hedged	WL	wildlife
I	insects	+	upward trend
Ins	inches	-	downward trend
L	light	O	static; no trend; none or old
M	moderate		

HARVEY VALLEY RANGE ALLOTMENT STATISTICS AND SYMBOLS

<u>SUBJECT</u>	<u>NUMBER or SYMBOL</u>
1. RANGE AREAS	1 to 280 inclusive
2. RANGE UNITS	1 to 5 inclusive
3. COVER TYPE	
A. VEGETATION	
Hair sedge (valley areas)	1a(v)
Hair sedge (upland and terraces)	1a(t)
Bunchgrass (dry sites)	1b (So., Fi., etc.)
Bunchgrass (moist site)	1b(w) (<u>Pn.</u> , <u>Sh.</u> , etc.)
Fine meadow (dry site)	2a
Fine meadow (wet site)	2ab
Wet meadow (regular)	2b
Rush-grass meadow	2bc
Coarse sedge, rush meadow	2c
Big sagebrush	4a
Black sagebrush	4b
Silver sagebrush	4c
Big and black sagebrush	4ab or 4ba
Black and silver sagebrush	4bc or 4cb
Sagebrush-Bitterbrush	4a(Pt)
Pine (virgin)	6a
Pine (cutover)	6a(c)
Pine-fir (virgin)	6b
Pine-fir (cutover)	6b(c)
Fir (virgin)	6c
Fir (cutover)	6c(c)
Lodgepole pine	6L
Brush or chaparral	5
B. OTHER COVER	
Rock	R
C. OTHER	
Waste area	7
Reseeded area	9
4. SOIL TYPE	
Pit	Pit
Antelope	Ant
Meadow	Mdw
Modoc	Mod
Bieber	Bb
Blacks	Blk
Patterson	Pat

4 copies

Hormay
June 13, 1960PLANT NAMES AND SYMBOLS
(Harvey Valley Allotment)Bod InfluenceFORAGE SPECIES

Scientific Name	Basal Area	Common name	Length of side	Symbols Used
Achillea millefolium	(sq") 0.8	Common yarrow	(inches) 0.9	ACm
Agropyron cristatum	0.1	Crested wheatgrass	0.3	Acr
Agropyron intermedium	0.1 to 0.5			AI
Agrostis hiemalis	} Sod ✓	Winter redtop	0.3 - 0.7	AGh
Agrostis spp.		Redtop or bent grass	} Sod	AG spp.
Antirrhinum spp.		Snapdragon		ANT spp.
Aster canescens	} 0.8	Aster	} 0.9	ASTc
Aster spp.				ASTspp.
Bromus inermis	Sod	Smooth brome	Sod	Bi
Bromus tectorum (annual)		Cheatgrass (downy chess, downy brome, junegrass)		BT
Carex exerta (fascicle)	0.8	Shorthair sedge	0.9	Cex
Carex nebraskensis	Sod	Nebraska sedge (coarse sedge)	Sod	Cnb
Carex rossii (fascicle)	0.8	Ross sedge	0.9	Cr
Carex spp.	—	Sedges		Cspp
Carex spp.	—	Sedges		CAs (Cspp)
Danthonia americana	} 0.1	California oatgrass	0.3	Da
Danthonia spp.		Oat grass		Daspp.
Eleocharis palustris	1.0	Common spike-rush	1.0	ELp
Eleocharis spp.	1.0	wiregrass		ELspp
Elymus condensatus	0.8	Spike rush	1.0	Ec
Erigeron bloomeri	0.8	Giant wild rye	0.9	ERGb
Eriogonum spp.	} 1.0 shrub		0.9	EGspp
Eriogonum umbellatum		Sulphur Eriogonum	1.0	EGu
Eriophyllum lanatum				EYI
Festuca idahoensis	0.10	Idaho fescue	0.3	Fi
Fimbristylis (annual)		Pull-up sedge		FI spp (FIM)
Hordeum nodosum	0.2	Meadow barley	0.5	Hn
Juncus balticus	} Sod	Coarse rush		Jb
Juncus spp.		Rushes		Jspp
Koeleria cristata	0.1	Junegrass	0.3	Kc
Lamium lepto.	1.0 (plant)	Blue flax	1.0	LNI
Linum lewisii	1.0	Lupine	1.0	Lspp
Lupinus spp. (fascicle)	0.1		0.3	Muspp
Muhlenbergia spp.	} Sod	Muhly grass		MUs
Muhlenbergia squarrosa		Mat muhly		

✓ All sod species and shrubs BA = 4 sq" Length side 2" = Hole
This is the same as BA = 1.0 and Length side = 1.0 above

PLANT NAMES AND SYMBOLS
(Harvey Valley Allotment)

NON-FORAGE SPECIES

Scientific Name		Common Name		Symbols Used
Agoseris spp. }	1.0	Fringy composite (Dandelion)		F
Agoseris spp. }		Mountain dandelion	1.0	AGspp
Antennaria argentea }	0.5		0.7	ANar
Antennaria dimorpha }				ANd
Antennaria spp. }		Pussytoes		ANspp
Arctostaphylos patula	1.0	Greenleaf manzanita	1.0	Ap
Artemisia arbuscula	1.0	Black and hardpan sage	1.0	ARa
Artemisia cana	1.0	Silver sage	1.0	ARcn (ARc)
Artemisia tridentata	1.0	Big sage	1.0	ART
Camassia quamash (plant)	1.0	Blue camas	1.0	CAMq
Cardamine spp.		Bitter cress		CARspp
Carum gairdneri (plant)	1.0	Yampa	1.0	CRMg
Ceanothus prostratus	1.0	Squaw carpet	1.0	Cp
Chrysothamnus bloomeri	1.0	Bloomer rabbitbrush	1.0	CHYb (CRYb)
Chrysothamnus spp.	1.0	Rabbitbrush	1.0	CRY (CHY)
Cirsium acaulescens	4.0	Thistle	2.0	Cla
Cogswellia spp. =		Biscuit root	1.0	COGspp
Lomatium lept. (annual)	1.0			
Hemizonia spp. (annual)		Tar weed		HM spp
Leptodactylon pungens	1.0		1.0	LEDp
Leucocorinum spp. plant	1.0	Lily-grass	1.0	LCCspp
Lomatium spp.		Hog-fennel		LOMspp
Phlox spp. (woody)	1.0	Phlox	1.0	PHXspp
Ranunculus alismaefolius } 1.0 plants		Buttercup	1.0	RA spp (RANa, RAa)
Ranunculus spp. }		Buttercup		RA spp (RAN)
Silene spp. (plant)	1.0	Catchfly, campion	1.0	SI spp
Viola purpurea (plant)	1.0	Violet	1.0	Vp

PLANT NAMES AND SYMBOLS
(Harvey Valley Allotment)

FORAGE SPECIES CONTINUED

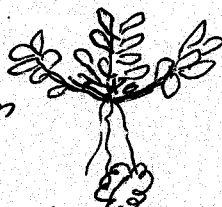
<u>Scientific Name</u>		<u>Common Name</u>		<u>Symbols Used</u>
Pentstemon spp.	0.8	Pentstemon	0.9	PEapp
<i>pratensis</i> Poa compressa	50d	Aster (Pink composite)		P
Poa nevadensis	0.1	Canada bluegrass		Pcm
Poa sandbergii	0.1	Nevada bluegrass	0.3	Pn
Purshia tridentata	shrub	Sandberg bluegrass	0.3	Ps
		Bitterbrush		PT
Sitanion hystrix	0.1	Squirrel-tail	0.3	Sh
Stipa elmeri	0.1		0.3	Se
Stipa occidentalis	} 0.1	Western needlegrass	0.3	So
Stipa spp.		Needlegrass (porcupine-speargrass)		Sapp
Stipa thurberiana	0.1		0.3	St (Sth)
Trifolium macrocephalum	} 1.0	Bighead clover	1.0	Tma
Trifolium spp.		Clover		Tapp (TR)
Wyethia mollis	1.0	Woolly mules-ears	1.0	Wm

Types of influence areas

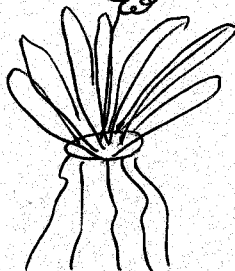
1. Buds



2. Fascicles (Bud groups from a common point)



3. Plants the plant is the unit rather than a bud



Examples

Dandelion
Biscuit root

June, 1959

MOST ABUNDANT RANGE PLANT SPECIES BY VEGETATION TYPES
HARVEY VALLEY RANGE ALLOTMENT
LASSEN NATIONAL FOREST

SPECIES

VEGETATION TYPE

		Hair Sedge	Dry Grassland	Wet Meadow	Sedge, rush	Big Sagebrush	Black Sagebrush	Silver Sagebrush Timber, Pine & Pine fir
<u>GRASSES (Natives)</u>								
Bottlebrush squirreltail (Sitanion hystrix)	.11					X	X	X
<i>Danthonia</i> Elmer needlegrass (Stipa elmeri)	1.0 .11					X		X
Idaho fescue (Festuca idahoensis)	BA	X				X	X	X
Mat muhly (Muhlenbergia squarrosa)	.11	X		X			X	
Meadow barley (Hordeum nodosum)	.11			X				
Mountain brome (Bromus carinatus)	.11							X
Nevada bluegrass (Poa nevadensis)	BA			X			X	
Sandberg bluegrass (Poa sandbergii)	BA	X				X	X	X
Thin bentgrass (Agrostis diegoensis)	1.0			X				
Tufted hairgrass (Deschampsia caespitosa)	BA			X				
Western needlegrass (Stipa occidentalis)	.11	X	X			X	X	X

SPECIES		VEGETATION TYPE							
		Hair Sedge	Dry Grassland	Wet Meadow	Sedge, rush	Big Sagebrush	Black Sagebrush	Silver Sagebrush Timber, Pine & Pine fir	
<u>GRASSES (Introduced reseeded)</u>									
Crested wheatgrass (<i>Agropyron cristatum</i>)	.//					X	X		
Intermediate wheatgrass (<i>Agropyron intermedium</i>)	.//					X	X		
Smooth brome grass (<i>Bromus inermis</i>)	1.0			X			X	X	
Tall wheatgrass (<i>Agropyron elongatum</i>)	.//			X				X	
<u>SEDGES and RUSHES</u>									
Chamisso sedge (<i>Carex pachystachya</i>)	1.0				X				
Common spikesedge (<i>Eleocharis palustris</i>)	1.0			X	X				
Nebraska sedge (<i>Carex nebraskensis</i>)	1.0			X	X				
Ross sedge (<i>Carex rossii</i>)	1.0	X				X	X		X
Shorthair sedge (<i>Carex exserta</i>)	1.0	X					X		
Silver sedge (<i>Carex paucicostata</i>)	1.0				X				
Wire rush (Baltic rush) (<i>Juncus balticus</i>)	1.0			X	X			X	

SPECIES

VEGETATION TYPE

FORBS

American bistort
(Polygonum bistortoides)

1.0

Arrowleaf balsamroot
(Balsamorhiza sagittata)

1.0

Barestem eriogonum
(Eriogonum nudum)

1.0

Biscuit root
(Lomatium spp.)

1.0

Cluster tarweed
(Madia glomerata)

list

Common camas
(Camassia quamash)

1.0

Flatpod groundsmoke
(Gayophytum humile)

list

Lambstongue groundsel
(Senecio integerrimus)

1.0

Littleflower collinsia
(Collinsia parviflora)

list

Longspur lupine
(Lupinus laxiflorus calcaratus) BA

Longstalk clover
(Trifolium longipes)

1.0

Northwest cinquefoil
(Potentilla gracilis)

1.0

Oregon checkermallow
(Sidalcea oregana)

1.0

Plantainleaf buttercup
(Ranunculus alismaefolius)

1.0

Pussytoes
(Antennaria argentea)

1.0

Slender phlox
(Phlox gracilis)

list

Water groundsel
(Senecio hydrophilus)

1.0

Western buttercup
(Ranunculus occidentalis)

1.0

Woolly mulesears
(Wyethia mollis)

1.0

Hair Sedge

Dry Grassland

Wet Meadow

Sedge, rush

Big Sagebrush

Black Sagebrush

Silver Sagebrush

Timber, Pine
& Pine fir

SPECIES

VEGETATION TYPE

SHRUBS

	Hair Sedge	Dry Grassland	Wet Meadow	Sedge, rush	Big Sagebrush	Black Sagebrush	Silver Sagebrush Timber, Pine & Pine fir
Bitterbrush (<i>Purshia tridentata</i>)	X			X			X
Big sagebrush (<i>Artemisia tridentata</i>)				X			X
Black sagebrush (<i>Artemisia arbuscula</i>)	X			X	X		
Tobaccobrush (<i>Ceanothus velutinus</i>)							X
Curlleaf mahogany (<i>Cercocarpus ledifolius</i>)							X
Greenleaf manzanita (<i>Arctostaphylos patula</i>)							X
Bloomer rabbitbrush (<i>Chrysothamnus bloomeri</i>)				X			X
Silver sagebrush (<i>Artemisia cana</i>)			X			X X	
Squaw carpet (<i>Ceanothus prostratus</i>)							X

TREES

Incense cedar (<i>Libocedras decurrens</i>)							X
Jeffrey pine (<i>Pinus jeffreyi</i>)							X
Lodge-pole pine (<i>Pinus contorta murrayana</i>)	X						X
Ponderosa pine (<i>Pinus ponderosa</i>)							X
Sierra juniper (<i>Juniperus occidentalis</i>)				X	X		X
White fir (<i>Abies concolor</i>)							X