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TECHNICAL NOTES

U.S. DEPARTMENT OF AGRICULTURE Portland, Oregon SOIL CONSERVATION SERVICE

RANGE - NO. 16 November 1982

RELATIVE FORAGE PREFERENCE OF PLANTS FOR GRAZING USE BY SEASON

It is helpful to have a general idea of forage preference when considering management alternatives on rangeland and grazeable woodland. Also forage value ratings for grazed forestlands require that forage values be assigned understory species. This information should help do that. The following is an attempt to classify forage preference of plants by season of use and animals, assuming the plants are available for grazing.

Forage preference is influenced by several factors including kind and class of animal; nutrient requirement of animal; season of use; rate of stocking; plant composition and availability; chemical and nutrient content of the plant species; and physiographic and climatic features of the area.

Plants have been rated to the following categories:

1 - Preferred
2 - Desirable
* - May be poisonous or otherwise injurious

Plants without ratings and seasons without ratings indicate plants are generally not desirable as forage.

This Technical Note has been adopted from the Idaho Technical Guide.

Common Plant Name	Pl Sym	Pl Chr	Cattle SP	Cattle SU	Cattle F	Cattle W	Sheep SP	Sheep SU	Sheep F	Sheep W	Horses SP	Horses SU	Horses F	Horses W	Elk SP	Elk SU	Elk F	Elk W	Deer SP	Deer SU	Deer F	Deer W	Antelope SP	Antelope SU	Antelope F	Antelope W
Albert hawkweed	HIAL	PNF	2	2			1	2			2	2			2	2			2	2			2	2		
Alkali bluegrass	POJU	PNG	1	2	2	2	1	2	2	2	1	2	2	2	1	2	2	2	2				2			
Alkali cordgrass	SPGR	PNG	2	2	2	2	2				2	2	2	2	2											
Alkali muhly	MUAS	PNG																	2							
Alkali Sacaton dropseed	SPAI	PNG	2	1		2		2			2	1		2	2											
Alkali sagebrush	ARLO8	NS							2	2									2	2	2	2	1	1	1	1
Alpine timothy	PHAL2	PNG	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	2				2			
Alumroot	HEUCH																									
American vetch	VIAM	PNF	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	2	2			2	2		
Antelope bitterbrush	PUTR2	NS	1	2	1	1	1	2	1	1	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1
Arrowgrass	TRIGL		*	*	*	*	*	*	*	*	*	*	*													
Arrowleaf balsamroot	BASA3	PNF	2	2			2	2							2	2			1	1			1	1		
Aster *	ASTER						2	2											2	2			2	2		
Baldhip rose	ROGY	NS		2	2			2	2							2	2		2	2	2	2	2	2	2	2
Basin big sagebrush	ARTRT	NS																	2	2	2	2	2	2	2	2
Basin wildrye	ELCI2	PNG	2	2		2	2				1	2	2	2	2				2				2			
Beardless wheatgrass	AGSPI	PNG	1	1	1	2	1	1	2	2	1	1	1	2	1	1	2	2	1				1			
Belvedere summercypress	KOSC	AIF	2	2			2	2			2	2			2	2			2	2			2	2		
Bentgrass	AGROS2		1	1	2	2	1	2			1	1	2	2	1	2			2				2			
Big bluegrass	POAM	PNG	1	1	1	1	1	2	1	2	1	1	1	1	1	2	2	1	1				1			
Biscuitroot	LOMAT2		2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2			2	2		
Bittercherry	PREM	NT		2				2								2			2	2	2	2	2	2	2	
Bitterroot lewisia	LERE7	PNF																								
Black chokecherry	PRVIM	NT	*	*	2		*	*	2										1	1		2	2			
Black greasewood	SAVE4	NS	2*			2	2*			2	2			2								2				2
Black sagebrush	ARARN	NS					2	2	1	1									1	1	1	1	1	1	1	1
Blackberry	RUBUS																									
Bladderpod	LESQU						2	2											2	2			2	2		

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Blue wildrye	ELGL	PNG	2				2				2				2				2				2			
Bluebell	MERTE		2	2			1	2			2				2	2			2	2			2	2		
Blueberry	VACCI															2	2	2	2	2	2	2	2	2	2	2
Bluebunch wheatgrass	AGSP	PNG	1	1	1	1	1	2	2	2	1	1	1	1	1	1	2	2	1		2		1		2	
Bluegrass	POA		1	1	1	1	1	2	1	2	1	1	1	1	1	1	2	1	1		2		1		2	
Bottlebrush squirreltail	SIHY	PNG	2		2		2				2		2		2		2		2				2			
Brackenfern	PTAQ	PNF3	*	*	*	*	*	*	*	*	*	*	*	*												
Broom snakeweed	GUSA2	NHS								2									2			2	2	2	2	2
Bud sagebrush	ARSP5	NS	2*				1*	2*		2*									2	2	2	2	2	2	2	2
Bulbous bluegrass	POBU	PIG	2	2	2		2				2	2	2		2	2	2		2				2			
Bulbous oniongrass	MEBU	PNG	2	2	2		2				2	2	2		2	2	2		2				2			
Bulrush	SCIRP																									
Butterandeggs toadflax	LIVU2	PIF																								
Buttercup	RANUN						2	2											2	2			2	2		
Butterweed groundsel	SESE2	PNF	2	2			2	2			2	2			2	2			2	2			2	2		
California brome	BRCA5	PNG	1	2	2		1		2		1	2	2		1		2		1		1		1		1	
California danthonia	DACA3	PNG	2	2	2		2				2	2	2		2	2			2				2			
Camas	CAMAS		2				2				2				2				2	2			2	2		
Cheatgrass brome	BRTE	AIG	1	2*	2*		1	*	2*		1	2*	2*		1	*	2*		1	*	1*		1	*	1	
Cinquefoil	POTEN		2	2			2	2							2	2			2	2			2	2		
Clover	TRIFO		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2			2	2		
Colorado wildrye	ELAM2	PNG	2	2	2		2				2	2	2		2	2			2				2			
Columbia brome	BRVU	PNG	2	2	2	2	2				2	2	2	2	2	2	2	2	2				2			
Columbia needlegrass	STOCN	PNG	1	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2				2			
Common beargrass	XETE	PNF																								
Common chokecherry	PRVI	NT	*	*	2		*	*	2										1	1		2	2			
Common cowparsnip	HELA4	PNF	2	2			2	2			2	2			2	2			2	2			2	2		
Common snowberry	SYAL	NS		2	2			2	2			2	2			2	2		1	1	2	2	2	2	2	2

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Common sunflower	HEAN3	ANF		2				2				2				2				2				2		
Common winterfat	EULA5	NHS	1	1	2	2	1	1	1	1	1	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2
Common yarrow	ACMI2	PNF					2	2											2	2			2	2		
Cottonwood	POPUL			2	2			2	2							2	2		2	2	2	2	2	2	2	2
Creambush oceonspray	HODI	NS													2	2	2	2	2	2	2	2	2	2	2	2
Creeping wildrye	ELTR3	PNG	1	2	2	2	2				1	2	2	2	2	2	2		2				2			
Cryptantha	CRYPT																									
Curlleaf mountain mahogany	CELE3	NS	2			2	2			2					2			2	1	1	1	1	1	1	1	1
Curlycup gumweed	GRSQ	BNF																								
Currant	RIBES				2				2								2		2	2			2	2		
Cusick bluegrass	POCU3	PNG	1	1	1	2	1	2	2	2	1	1	1	2	1	1	1	2	1		2		1		2	
Cusick gianthyssop	AGCU	PNF	2	2	2		2	2	2		2	2	2		2	2	2		2				2			
Cutleaf balsamroot	BAMA4	PNF	2				2				2				2				2	2			2	2		
Cutleaf filaree	ERCI6	AIF	1	1	2		1	1	2		1	1	2		1	1	2		1	1	2		1	1	2	
Dandelion	TARAX		1	2	2		1	2	2		1	2	2		1	2	2		1	2	2		1	2	2	
Deathcamas	ZYGAD		*	*	*	*	*	*	*	*	*	*	*	*												
Dogbane	APOCY		*	*	*	*	*	*	*	*	*	*	*	*												
Douglas broadiaea	BRDO	PNF																								
Douglas sedge	CADO2	PNGL	2	2	2		2				2	2	2		2	2	2		2				2			
Dwarfgray rabbitbrush	CHNAN	NS			2				2													2			2	
Dwarfgreen rabbitbrush	CHVIP2	NS			2				2													2			2	
Elderberry	SAMBU			2	2	2		2	1	2						2	2	2	1	1			1	1		
Elk sedge	CAGE2	PNGL	2	2											2	2				2				2		
Eriogonum	ERIOG						2	2											2	2			2	2		
False Toadflax	COMAN																									
Falsehellebore	VERAT		*	*	*		*	*	*										2	2						
Fiddleneck	AMSIN																									
Fleabane	ERIGE2						2	2											2	2			2	2		
Fourwing saltbush	ATCA2	NS	1	2	2	1	1	2	2	1									2	2	2	1	2	2	2	2

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			SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W
Foxtail barley	HOJU	PNG	2	2	*	*	2	*	*	*	2	2*	*	*	2	*	*	*	2	*	*	*	2	*	*	*
Foxtail wheatgrass	AGSA2	PNG	1	1	1	1	1	2	2	2	1	1	1	1	1	1	2	2	1		2		1		2	
Fringed sagebrush	ARFR4	NHS							2	2									2	2	2	2	2	2	2	2
Globemallow	SPHAE						2	2											2	2			2	2		
Goldenrod	SOLID						2	2				2	2						2	2			2	2		
Goldenweed	HAPLO2																		2	2			2	2		
Gray horsebrush	TECA2	NS					*	*	*	*									2	2	2	2	2	2	2	2
Green fescue	FEVI	PNG		2	2			2	2			2	2	2		2	2	2		2						
Halogeton	HAGL	AIF	*	*	*	*	*	*	*	*									2	2			2	2		
Harry winter vetch	VIVI	PIF	2	2			2	2			2	2			2	2			2	2			2	2		
Heartleaf arnica	ARCO9	PNF	2	2			2	2			2	2			1	1			2							
Helianthella	HELIA		2	2			1	1			2	2			2	2			2	2			2	2		
Herbaceous sagewort	ARDR4	PNF																					2	2	2	2
Honeysuckle	LONIC																	2	2	2	2	2	2	2	2	2
Hoods phlox	PHHO	PNF					2																2			
Hooker balsamroot	BAHO	PNF	2				2				2				2				2	2			2	2		
Idaho fescue	FEID	PNG	1	1	1	2	1	1	2	2	1	1	1	2	1	1	1	2	1		2		1		2	
Indian paintbrush *	CASTI2		2				2	2							2				2	2			2	2		
Indian ricegrass	ORHY	PNG	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1		2		1		2	
Inland saltgrass	DIST	PNG	2	2		2	2				2	2		2	2	2		2	2				2			
Japanese brome	BRJA	AIG	1	2	2		1		2		1	2	2		1		2		2				2			
Juniper	JUNIP																					1				1
Kentucky bluegrass	POPR	PIG	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1		2		1		2	
Lemmon needlegrass	STLE2	PNG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				2			
Letterman needlegrass	STLE4	PNG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				2			
Lettuce	LACTU		2	2			1	1			2	2			2	2			1	1			1	1		
Lewis flax	LIPEL	PNF																								
Lewisia	LEWIS																									

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Licoriceroot	LIGUS		2	2			2	2			2	2			2	2			2	2			2	2		
Liddon sedge	CAPE7	PNGL	2	2	2		2				2	2	2		2	2	2		2				2			
Little ricegrass	OREX	PNG	2	2	2		2				2	2	2		2	2	2		2				2			
Littleleaf horsebrush	TEGL	NS					*	*	*	*									2	2	2	2	2	2	2	2
Longleaf phlox	PHLO2	PNF					2				2	2	2										2			
Louisiana sagewort	ARLU	PNF							2										2	2	2	2	1	1	1	1
Lousewart	PEDIC																									
Low Larkspur	DEBI	PNF	*	*		2	2												2	2			2	2		
Low Oregon grape	BERE	NS																					2	2	2	2
Low sagebrush	ARAR8	NS						2	2										2	2	2	2	1	1	1	1
Lupine	LUPIN		*				2*	2			*								2	2			2	2		
Mallow ninebark	PHMA5	NS																2	2	2	2	2	2	2	2	2
Mariposa lily	CALOC																									
Mat muhly	MURI	PNG	2	2			2				2	2			2	2			2				2			
Meadowrue	THALI2																		2	2			2	2		
Medusahead wildrye	TAAS	AIG	2	2							2	2			2				2				2			
Milkvetch	ASTRA		*	*			*	*			*	*											2	2		
Mountain agoseris	AGGL	PNF	2	2			2	2			2	2			2	2			2	2			2	2		
Mountain ash	SORBU															2	2	2								
Mountain big sagebrush	ARTRV	NS		2	2	2	2	2	2	2					2	2	2		1	1	1	1	1	1	1	1
Mountain brome	BRCAC	PNG	1	1	1	2	1	2	2	2	1	1	1	2	1	1	1	2	2				2			
Mountain snowberry	SYOR2	NS		2	2			1	1			2	2			2	2		1	1	1	1	2	2	2	2
Mulesear wyethia	WYAM	PNF					2								2				2	2			2			
Nebraska sedge	CANE2	PNGL	1	1	2	2	2				1	1	2	2	1	2	2	2	2				2			
Needleandthread grass	STCO4	PNG	1	2	2	2	1	2	2*	2*	1	2	2	2	1	2	2	2	2	*	2*		2	*	2*	
Needlegrass	STIPA		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				2			
Nerved bluegrass	PONE2	PNG	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1		2		1		2	

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			SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W
Nettleleaf gianthysop	AGUR	PNF	2	2	2		1	2	2		2	2	2		2	2	2		2				2			
Nevada bluegrass	PONE3	PNG	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1		2		1		2	
Nodding brome	BRAN	PNG	2	2	2	2	2	2	2		2	2	2	2	2	2	2	2	2				2			
Northern bedstraw	GABO2	PNF					2	2											2	2			2	2		
Nuttal tansy	TANU	PNF																								
Nuttall horsebrush	TENU2	NS																	2	2	2	2	2	2	2	2
Nuttall saltbush	ATNU2	NHS	2	2	2	1	1	2	2	1									2	2	2	2	2	2	2	2
Onespike danthonia	DAUN	PNG	2	2	2		2				2	2	2		2	2	2		2				2			
Onion	ALLIU		1	2			1	2							2	2			2	2			2	2		
Owlclover	ORTHO																									
Peavine	LATHY		2	2			2	2			2	2			2	2			2	2			2	2		
Penstemon	PENST																		2	2			2	2		
Pepperweed	LEPID																						2	2		
Phacelia	PHACE																		2	2			2	2		
Phlox	PHLOX		2			2	2	2		2	2			2	2			2	2				2			
Pine bluegrass	POSC	PNG	1	2	1	2	1		2		1	2	1	2	1	2	1	2	2				2			
Pine reedgrass	CARU	PNG	2	2	2										2	2	2		2				2			
Plains pricklypear	OPPO	NS4S	*	*			*	*															2	2	2	2
Prairie cordgrass	SPPE	PNG	2	2			2				2	2			2	2			2				2			
Prairie junegrass	KOCR	PNG	2	2	2	2	2				2	2	2	2	2	2	2	2	2				2			
Purple oniongrass	MESP	PNG	1	1	2	2	1	2			1	1	2	2	1	1	2	2	1				1			
Purple sage	SADOC	NS																								
Pussytoes	ANTEN																		2	2			2	2		
Quackgrass wheatgrass	AGRE2	PIG	2								2				2				1	2			2	2		
Quaking aspen	POTR5	NT		2				1	2							2			1	1	2	2	2	2	2	2
Rattlesnake brome	BRBR5	AIG	1	2	2		1		2		1	2	2		1		2		1		1		1		1	
Red stem ceanothus	CESA	NS	2	2	2		2	2	2		2	2	2		2	2	2	2	2	2	2	2				
Red threeawn	ARLO3	PNG																	2	2			2	2		

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Redtop bentgrass	AGAL3	PIG	1	1	2	2	1	2			1	1	2	2	1	2			2				2			
Richardson geranium	GERI	PNF	2	2			1	1			2	2			2	2			1	1			2	2		
Rockcress	ARABI2																		2		2	2	2		2	2
Rockymountain iris	IRMI	PNF																	2	2						
Rockymountain maple	ACGL	NT																	2	2						
Rose	ROSA			2	2			2	2							2	2		2	2	2	2	2	2	2	2
Rough fescue	FESC	PNG																								
Rush	JUNCU																									
Rush skeletonweed	LYGOD																									
Salmon wildrye	ELAMS2	PNG	1	1	2	2	1	2			1	1	2	2	1	1	2	2	2				2			
Salmonriver rabbitbrush	CHPA13	NS																								
Sand dropseed	SPCR	PNG	2	2	2	2	2				2	2	2	2	2	2	2	2	2				2			
Sandberg bluegrass	POSA3	PNG	2	2	2	2	1		2		2	2	2	2	2	2	2	2	1		2		1		2	
Sandwort	ARENA																									
Scarlet globemallow	SPCO	PNF	2	2			1	2	2		2	2			2	2			1	2	2		1	2	2	
Scouler willow	SASC	NT		2	2			2	2			2	2			2	2	2	2	2	2	2	2	2	2	2
Scurfpea	PSORA																									
Sedge	CAREX		2	2	2	2	2				2	2	2	2	2	2	2	2	2				2			
Serviceberry	AMELA		2	1	2	2	1	1	2	2	2	2	2	2	2	1	2	2	1	1	1	1	1	1	1	1
Shadscale saltbush	ATCO	NS	1		2	2	1		2	2									2	2	2	2	2	2	2	2
Shrubby cinquefoil	POFR4	NS																2	2	2	2	2	2	2	2	2
Silver sagebrush	ARCA13	NS			2	2		2	2				2	2			2	2	2	2	2	2	2	2	2	2
Sixweeks fescue	FEOC2	ANG																								
Slender Wheatgrass	AGCAM2	PNG	1	1	1	2	1	1	2	2	1	1	1	2	1	1	1	2	1		2		1		2	
Snowbrush ceanothus	CEVE	NS													2	2	2	2	1	1						
Spike fescue	HEKI	PNG	2	2			2				2	2	2		2	2			2				2			
Spike Trisetum	TRSP2	PNG	1	2	2	2	2				1	2	2	2	1	2	2	2	2				2			

Common Plant Name	Pl Sym	Pl Chr	Cattle SP	Cattle SU	Cattle F	Cattle W	Sheep SP	Sheep SU	Sheep F	Sheep W	Horses SP	Horses SU	Horses F	Horses W	Elk SP	Elk SU	Elk F	Elk W	Deer SP	Deer SU	Deer F	Deer W	Antelope SP	Antelope SU	Antelope F	Antelope W
Spiny hopsage	GRSP	NS	2	2	2	2	2	2	2	2									2	2	2	2	2	2	2	2
Spiny horsebrush	TESP2	NS	*	*	*	*	*	*	*	*	*	*	*	*												
Spirea	SPIRA				2												2				2	2			2	2
Starry falsesolomonseal	SMST	PNF	2	2			1	1	2		2	2			2	2			1	1	2		2	2		
Stickseed	HACKE																									
Sticky geranium	GEVI2	PNF					2	2											2	2			2	2		
Stiff sagebrush	ARRI2	NS																								
Stonecrop	SEDUM																		2				2			
Strawberry	FRAGA		2	2			2	2			2	2			2	2			2	2			2	2		
Streambank wheatgrass	AGRI	PNG	1	2	2	2	2	2	2		1	2	2	2	1	2	2	2	2				2			
Subalpine big sagebrush	ARTRVS	NS		2	2	2	2	2	2	2					2	2	2		1	1	1	1	1	1	1	1
Swallen ricegrass	ORSW	PNG	1	1	2	2	1	2	2		1	1	2	2	1	1	2	2	1		2		1	2	2	
Sweetroot	OSMOR		1	2	2	2	1	2	2	2	1	2	2	2	1	2	2	2	2	2			2	2		
Tallgray rabbitbrush	CHNA2	NS			2				2				2									2				2
Tallgreen rabbitbrush	CHVI8	NS			2				2													2			2	
Tansy mustard	DESCU		2*	*			2				2				2				2				2			
Tapertip hawksbeard	CRAC2	PNF	2	2			1	1			2	2			2	2			2	2			2	2		
Thermopsis	THERM																									
Thickspike wheatgrass	AGDA	PNG	1	2	2	2	2	2	2		1	2	2	2	1	2	2	2	2				2			
Thistle	CIRSI										2	2			2	2										
Thorn skeletonweed	LYSP	PNF	*	*	*	*	*	*	*	*	*	*	*	*												
Threadleaf sedge	CAFI	PNGL	1	2	2	2	2				1	2	2	2	1	2	2	2	2				2			
Threetip sagebrush	ARTR4	NS																								
Thurber needlegrass	STTH2	PNG	1	2	2	2	2	2	2	2	1	2	2	2	1	2	2	2	2				2			
Timber Danthonia	DAIN	PNG	2	2	2		2				2	2	2		2	2	2		2				2			
Townsendia	TOWNS																									
Trisetum	TRISE		1	2	2	2	2				1	2	2	2	1	2	2	2	2				2			
Tufted hairgrass	DECA5	PNG	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	2				2			

Common Plant Name	Pl Sym	Pl Chr	Cattle SP	Cattle SU	Cattle F	Cattle W	Sheep SP	Sheep SU	Sheep F	Sheep W	Horses SP	Horses SU	Horses F	Horses W	Elk SP	Elk SU	Elk F	Elk W	Deer SP	Deer SU	Deer F	Deer W	Antelope SP	Antelope SU	Antelope F	Antelope W
Twinflower	LINNA														2	2			2	2						
Twistedleaf rabbitbrush	CHVIP	NS																				2				2
Utah snowberry	SYORU	NS		2	2			2	2			2	2			2	2		1	1	2	2	2	2	2	2
Valerian	VALER						2	2											2	2			2	2		
Variedleaf green rabbitbrush	CHVIV	NS			2				2													2			2	
Vetch	VICIA		1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	2	2			2	2		
Violet	VIOLA						2	2											2	2			2	2		
Wallflower	ERYSI						2												2	2			2	2		
Western coneflower	RUOC2	PNF																								
Western fescue	FEOC	PNG	2	2	2	2	2				2	2	2	2	2	2	2	2	2				2			
Western needlegrasss	STOC2	PNG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				2			
Western snowberry	SYOC	NS						2	2							2	2		1	1	2	2	2	2	2	2
Western thimbleberry	RUPA	NS														2	2		2	2	2	2				
Western wheatgrass	AGSM	PNG	1	2	2	2	2	2	2		1	2	2	2	1	2	2	2	1				2			
Western yarrow	ACMIL	PNF	2	2	2		2	2	2		2	2	2		2	2	2	2								
White hawkweed	HIAL2	PNF					2	2											2	2			2	2		
White stoneseed	LIRU4	PNF					2	2	2	2									2	2			2	2		
Whitehead wyethia	WYHE2	PNF	2				2				2				2				2	2						
Whitestemmed elkweed	FRAL2	PNF																								
Willow	SALIX			2	2			2	2			2	2			2	2	2	2	2	2	2	2	2	2	2
Willowweed	EPILO		2	2	2		2	2			2	2	2		2	2	2		2	2			2	2		
Woods rose	ROWO	NS		2	2			2	2							2	2		2	2	2	2	2	2	2	2
Wooly hawkweed	HISC2	PNF	2	2			1	2			2	2			2	2			2	2			2	2		
Wooly wyethia	WYMO	PNF	2				2				2				2				2	2						
Wyoming big sagebrush	ARTRW	NS				2				2								2	2	2	2	2	1	1	1	1
Xericensis big sagebrush	ARTRX	NS																	2	2	2	2	2	2	2	2
Yellow wildrye	ELFL2	PNG	2	2	2		2				2	2	2		2	2	2		2				2			

Common Plant Name	Pl Sym	Pl Chr	Cattle SP	Cattle SU	Cattle F	Cattle W	Sheep SP	Sheep SU	Sheep F	Sheep W	Horses SP	Horses SU	Horses F	Horses W	Elk SP	Elk SU	Elk F	Elk W	Deer SP	Deer SU	Deer F	Deer W	Antelope SP	Antelope SU	Antelope F	Antelope W
Rockymountain maple	ACGL	NT																	2	2						
Western yarrow	ACMIL	PNF	2	2	2		2	2	2		2	2	2		2	2	2	2								
Common yarrow	ACMI2	PNF					2	2											2	2			2	2		
Redtop bentgrass	AGAL3	PIG	1	1	2	2	1	2			1	1	2	2	1	2			2				2			
Slender Wheatgrass	AGCAM2	PNG	1	1	1	2	1	1	2	2	1	1	1	2	1	1	1	2	1		2		1		2	
Cusick gianthyssop	AGCU	PNF	2	2	2		2	2	2		2	2	2		2	2	2		2				2			
Thickspike wheatgrass	AGDA	PNG	1	2	2	2	2	2	2		1	2	2	2	1	2	2	2	2				2			
Mountain agoseris	AGGL	PNF	2	2			2	2			2	2			2	2			2	2			2	2		
Quackgrass wheatgrass	AGRE2	PIG	2								2				2				1	2			2	2		
Streambank wheatgrass	AGRI	PNG	1	2	2	2	2	2	2		1	2	2	2	1	2	2	2	2				2			
Bentgrass	AGROS2		1	1	2	2	1	2			1	1	2	2	1	2			2				2			
Foxtail wheatgrass	AGSA2	PNG	1	1	1	1	1	2	2	2	1	1	1	1	1	1	2	2	1		2		1		2	
Western wheatgrass	AGSM	PNG	1	2	2	2	2	2	2		1	2	2	2	1	2	2	2	1				2			
Bluebunch wheatgrass	AGSP	PNG	1	1	1	1	1	2	2	2	1	1	1	1	1	1	2	2	1		2		1		2	
Beardless wheatgrass	AGSPI	PNG	1	1	1	2	1	1	2	2	1	1	1	2	1	1	2	2	1				1			
Nettleleaf gianthysop	AGUR	PNF	2	2	2		1	2	2		2	2	2		2	2	2		2				2			
Onion	ALLIU		1	2			1	2							2	2			2	2			2	2		
Serviceberry	AMELA		2	1	2	2	1	1	2	2	2	2	2	2	2	1	2	2	1	1	1	1	1	1	1	1
Fiddleneck	AMSIN																									
Pussytoes	ANTEN																		2	2			2	2		
Dogbane	APOCY		*	*	*	*	*	*	*	*	*	*	*	*												
Rockcress	ARABI2																		2		2	2	2		2	2
Black sagebrush	ARARN	NS					2	2	1	1									1	1	1	1	1	1	1	1
Low sagebrush	ARAR8	NS						2	2										2	2	2	2	1	1	1	1
Silver sagebrush	ARCA13	NS			2	2		2	2				2	2			2	2	2	2	2	2	2	2	2	2
Heartleaf arnica	ARCO9	PNF	2	2			2	2			2	2			1	1			2							
Herbaceous sagewort	ARDR4	PNF																					2	2	2	2

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Sandwort	ARENA																									
Fringed sagebrush	ARFR4	NHS							2	2									2	2	2	2	2	2	2	2
Red threeawn	ARLO3	PNG																	2	2			2	2		
Alkali sagebrush	ARLO8	NS							2	2									2	2	2	2	1	1	1	1
Louisiana sagewort	ARLU	PNF							2										2	2	2	2	1	1	1	1
Stiff sagebrush	ARRI2	NS																								
Bud sagebrush	ARSP5	NS	2*				1*	2*		2*									2	2	2	2	2	2	2	2
Basin big sagebrush	ARTRT	NS																	2	2	2	2	2	2	2	2
Mountain big sagebrush	ARTRV	NS		2	2	2	2	2	2	2					2	2	2		1	1	1	1	1	1	1	1
Subalpine big sagebrush	ARTRVS	NS		2	2	2	2	2	2	2					2	2	2		1	1	1	1	1	1	1	1
Wyoming big sagebrush	ARTRW	NS				2				2								2	2	2	2	2	1	1	1	1
Xericensis big sagebrush	ARTRX	NS																	2	2	2	2	2	2	2	2
Threetip sagebrush	ARTR4	NS																								
Aster *	ASTER						2	2											2	2			2	2		
Milkvetch	ASTRA		*	*			*	*			*	*											2	2		
Fourwing saltbush	ATCA2	NS	1	2	2	1	1	2	2	1									2	2	2	1	2	2	2	2
Shadscale saltbush	ATCO	NS	1		2	2	1		2	2									2	2	2	2	2	2	2	2
Nuttall saltbush	ATNU2	NHS	2	2	2	1	1	2	2	1									2	2	2	2	2	2	2	2
Hooker balsamroot	BAHO	PNF	2				2				2				2				2	2			2	2		
Cutleaf balsamroot	BAMA4	PNF	2				2				2				2				2	2			2	2		
Arrowleaf balsamroot	BASA3	PNF	2	2			2	2							2	2			1	1			1	1		
Low Oregon grape	BERE	NS																					2	2	2	2
Nodding brome	BRAN	PNG	2	2	2	2	2	2	2		2	2	2	2	2	2	2	2	2				2			
Rattlesnake brome	BRBR5	AIG	1	2	2		1		2		1	2	2		1		2		1		1		1		1	
Mountain brome	BRCAC	PNG	1	1	1	2	1	2	2	2	1	1	1	2	1	1	1	2	2				2			
California brome	BRCA5	PNG	1	2	2		1		2		1	2	2		1		2		1		1		1		1	
Douglas broadiaea	BRDO	PNF																								
Japanese brome	BRJA	AIG	1	2	2		1		2		1	2	2		1		2		2				2			

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Cheatgrass brome	BRTE	AIG	1	2*	2*		1	*	2*		1	2*	2*		1	*	2*		1	*	1*		1	*	1	
Columbia brome	BRVU	PNG	2	2	2	2	2				2	2	2	2	2	2	2	2	2				2			
Douglas sedge	CADO2	PNGL	2	2	2		2				2	2	2		2	2	2		2				2			
Threadleaf sedge	CAFI	PNGL	1	2	2	2	2				1	2	2	2	1	2	2	2	2				2			
Elk sedge	CAGE2	PNGL	2	2											2	2				2				2		
Mariposa lily	CALOC																									
Camas	CAMAS		2				2				2				2				2	2			2	2		
Nebraska sedge	CANE2	PNGL	1	1	2	2	2				1	1	2	2	1	2	2	2	2				2			
Liddon sedge	CAPE7	PNGL	2	2	2		2				2	2	2		2	2	2		2				2			
Sedge	CAREX		2	2	2	2	2				2	2	2	2	2	2	2	2	2				2			
Pine reedgrass	CARU	PNG	2	2	2										2	2	2		2				2			
Indian paintbrush *	CASTI2		2				2	2							2				2	2			2	2		
Curlleaf mountain mahogany	CELE3	NS	2			2	2			2					2			2	1	1	1	1	1	1	1	1
Red stem ceanothus	CESA	NS	2	2	2		2	2	2		2	2	2		2	2	2	2	2	2	2	2				
Snowbrush ceanothus	CEVE	NS													2	2	2	2	1	1						
Dwarfgray rabbitbrush	CHNAN	NS			2				2													2			2	
Tallgray rabbitbrush	CHNA2	NS			2				2				2									2				2
Salmonriver rabbitbrush	CHPA13	NS																								
Twistedleaf rabbitbrush	CHVIP	NS																				2				2
Dwarfgreen rabbitbrush	CHVIP2	NS			2				2													2			2	
Variedleaf green rabbitbrush	CHVIV	NS			2				2													2			2	
Tallgreen rabbitbrush	CHVI8	NS			2				2													2			2	
Thistle	CIRSI										2	2			2	2										
False Toadflax	COMAN																									
Tapertip hawksbeard	CRAC2	PNF	2	2			1	1			2	2			2	2			2	2			2	2		
Cryptantha	CRYPT																									
California danthonia	DACA3	PNG	2	2	2		2				2	2	2		2	2			2				2			
Timber Danthonia	DAIN	PNG	2	2	2		2				2	2	2		2	2	2		2				2			

Common Plant Name	Pl Sym	Pl Chr	Cattle SP	Cattle SU	Cattle F	Cattle W	Sheep SP	Sheep SU	Sheep F	Sheep W	Horses SP	Horses SU	Horses F	Horses W	Elk SP	Elk SU	Elk F	Elk W	Deer SP	Deer SU	Deer F	Deer W	Antelope SP	Antelope SU	Antelope F	Antelope W
Onespike danthonia	DAUN	PNG	2	2	2		2				2	2	2		2	2	2		2				2			
Low Larkspur	DEBI	PNF	*	*		2	2												2	2			2	2		
Tufted hairgrass	DECA5	PNG	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	2				2			
Tansy mustard	DESCU		2*	*			2				2				2				2				2			
Inland saltgrass	DIST	PNG	2	2		2	2				2	2		2	2	2		2	2				2			
Salmon wildrye	ELAMS2	PNG	1	1	2	2	1	2			1	1	2	2	1	1	2	2	2				2			
Colorado wildrye	ELAM2	PNG	2	2	2		2				2	2	2		2	2			2				2			
Basin wildrye	ELCI2	PNG	2	2		2	2				1	2	2	2	2				2				2			
Yellow wildrye	ELFL2	PNG	2	2	2		2				2	2	2		2	2	2		2				2			
Blue wildrye	ELGL	PNG	2				2				2				2				2				2			
Creeping wildrye	ELTR3	PNG	1	2	2	2	2				1	2	2	2	2	2	2		2				2			
Willowweed	EPILO		2	2	2		2	2			2	2	2		2	2	2		2	2			2	2		
Cutleaf filaree	ERCI6	AIF	1	1	2		1	1	2		1	1	2		1	1	2		1	1	2		1	1	2	
Fleabane	ERIGE2						2	2											2	2			2	2		
Eriogonum	ERIOG						2	2											2	2			2	2		
Wallflower	ERYSI						2												2	2			2	2		
Common winterfat	EULA5	NHS	1	1	2	2	1	1	1	1	1	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2
Idaho fescue	FEID	PNG	1	1	1	2	1	1	2	2	1	1	1	2	1	1	1	2	1		2		1		2	
Western fescue	FEOC	PNG	2	2	2	2	2				2	2	2	2	2	2	2	2	2				2			
Sixweeks fescue	FEOC2	ANG																								
Rough fescue	FESC	PNG																								
Green fescue	FEVI	PNG		2	2			2	2			2	2	2		2	2	2		2						
Strawberry	FRAGA		2	2			2	2			2	2			2	2			2	2			2	2		
Whitestemmed elkweed	FRAL2	PNF																								
Northern bedstraw	GABO2	PNF					2	2											2	2			2	2		
Richardson geranium	GERI	PNF	2	2			1	1			2	2			2	2			1	1			2	2		
Sticky geranium	GEVI2	PNF					2	2											2	2			2	2		
Spiny hopsage	GRSP	NS	2	2	2	2	2	2	2	2									2	2	2	2	2	2	2	2

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Curlycup gumweed	GRSQ	BNF																								
Broom snakeweed	GUSA2	NHS								2									2			2	2	2	2	2
Stickseed	HACKE																									
Halogeton	HAGL	AIF	*	*	*	*	*	*	*	*									2	2			2	2		
Goldenweed	HAPLO2																		2	2			2	2		
Common sunflower	HEAN3	ANF		2				2				2				2				2				2		
Spike fescue	HEKI	PNG	2	2			2				2	2	2		2	2			2				2			
Common cowparsnip	HELA4	PNF	2	2			2	2			2	2			2	2			2	2			2	2		
Helianthella	HELIA		2	2			1	1			2	2			2	2			2	2			2	2		
Alumroot	HEUCH																									
Albert hawkweed	HIAL	PNF	2	2			1	2			2	2			2	2			2	2			2	2		
White hawkweed	HIAL2	PNF					2	2											2	2			2	2		
Wooly hawkweed	HISC2	PNF	2	2			1	2			2	2			2	2			2	2			2	2		
Creambush oceonspray	HODI	NS													2	2	2	2	2	2	2	2	2	2	2	2
Foxtail barley	HOJU	PNG	2	2	*	*	2	*	*	*	2	2*	*	*	2	*	*	*	2	*	*	*	2	*	*	*
Rockymountain iris	IRMI	PNF																	2	2						
Rush	JUNCU																									
Juniper	JUNIP																					1				1
Prairie junegrass	KOCR	PNG	2	2	2	2	2				2	2	2	2	2	2	2	2	2				2			
Belvedere summercypress	KOSC	AIF	2	2			2	2			2	2			2	2			2	2			2	2		
Lettuce	LACTU		2	2			1	1			2	2			2	2			1	1			1	1		
Peavine	LATHY		2	2			2	2			2	2			2	2			2	2			2	2		
Pepperweed	LEPID																						2	2		
Bitterroot lewisia	LERE7	PNF																								
Bladderpod	LESQU						2	2											2	2			2	2		
Lewisia	LEWIS																									
Licoriceroot	LIGUS		2	2			2	2			2	2			2	2			2	2			2	2		

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Twinflower	LINNA														2	2			2	2						
Lewis flax	LIPEL	PNF																								
White stoneseed	LIRU4	PNF					2	2	2	2									2	2			2	2		
Butterandeggs toadflax	LIVU2	PIF																								
Biscuitroot	LOMAT2		2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2			2	2		
Honeysuckle	LONIC																	2	2	2	2	2	2	2	2	2
Lupine	LUPIN		*				2*	2			*								2	2			2	2		
Rush skeletonweed	LYGOD																									
Thorn skeletonweed	LYSP	PNF	*	*	*	*	*	*	*	*	*	*	*	*												
Bulbous oniongrass	MEBU	PNG	2	2	2		2				2	2	2		2	2	2		2				2			
Bluebell	MERTE		2	2			1	2			2				2	2			2	2			2	2		
Purple oniongrass	MESP	PNG	1	1	2	2	1	2			1	1	2	2	1	1	2	2	1				1			
Alkali muhly	MUAS	PNG																	2							
Mat muhly	MURI	PNG	2	2			2				2	2			2	2			2				2			
Plains pricklypear	OPPO	NS4S	*	*			*	*															2	2	2	2
Little ricegrass	OREX	PNG	2	2	2		2				2	2	2		2	2	2		2				2			
Indian ricegrass	ORHY	PNG	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1		2		1		2	
Swallen ricegrass	ORSW	PNG	1	1	2	2	1	2	2		1	1	2	2	1	1	2	2	1		2		1	2	2	
Owlclover	ORTHO																									
Sweetroot	OSMOR		1	2	2	2	1	2	2	2	1	2	2	2	1	2	2	2	2	2			2	2		
Lousewart	PEDIC																									
Penstemon	PENST																		2	2			2	2		
Phacelia	PHACE																		2	2			2	2		
Alpine timothy	PHAL2	PNG	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	2				2			
Hoods phlox	PHHO	PNF					2																2			
Phlox	PHLOX		2			2	2	2		2	2			2	2			2	2				2			
Longleaf phlox	PHLO2	PNF					2				2	2	2										2			
Mallow ninebark	PHMA5	NS																2	2	2	2	2	2	2	2	2

Common Plant Name	Pl Sym	Pl Chr	Cattle				Sheep				Horses				Elk				Deer				Antelope			
			SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W
Bluegrass	POA		1	1	1	1	1	2	1	2	1	1	1	1	1	1	2	1	1		2		1		2	
Big bluegrass	POAM	PNG	1	1	1	1	1	2	1	2	1	1	1	1	1	2	2	1	1				1			
Bulbous bluegrass	POBU	PIG	2	2	2		2				2	2	2		2	2	2		2				2			
Cusick bluegrass	POCU3	PNG	1	1	1	2	1	2	2	2	1	1	1	2	1	1	1	2	1		2		1		2	
Shrubby cinquefoil	POFR4	NS																2	2	2	2	2	2	2	2	2
Alkali bluegrass	POJU	PNG	1	2	2	2	1	2	2	2	1	2	2	2	1	2	2	2	2				2			
Nerved bluegrass	PONE2	PNG	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1		2		1		2	
Nevada bluegrass	PONE3	PNG	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1		2		1		2	
Kentucky bluegrass	POPR	PIG	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1		2		1		2	
Cottonwood	POPUL			2	2			2	2							2	2		2	2	2	2	2	2	2	2
Sandberg bluegrass	POSA3	PNG	2	2	2	2	1		2		2	2	2	2	2	2	2	2	1		2		1		2	
Pine bluegrass	POSC	PNG	1	2	1	2	1		2		1	2	1	2	1	2	1	2	2				2			
Cinquefoil	POTEN		2	2			2	2							2	2			2	2			2	2		
Quaking aspen	POTR5	NT		2				1	2							2			1	1	2	2	2	2	2	2
Bittercherry	PREM	NT		2				2								2			2	2	2	2	2	2	2	
Common chokecherry	PRVI	NT	*	*	2		*	*	2										1	1		2	2			
Black chokecherry	PRVIM	NT	*	*	2		*	*	2										1	1		2	2			
Scurfpea	PSORA																									
Brackenfern	PTAQ	PNF3	*	*	*	*	*	*	*	*	*	*	*	*												
Antelope bitterbrush	PUTR2	NS	1	2	1	1	1	2	1	1	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1
Buttercup	RANUN						2	2											2	2			2	2		
Currant	RIBES				2				2								2		2	2			2	2		
Baldhip rose	ROGY	NS		2	2			2	2							2	2		2	2	2	2	2	2	2	2
Rose	ROSA			2	2			2	2							2	2		2	2	2	2	2	2	2	2
Woods rose	ROWO	NS		2	2			2	2							2	2		2	2	2	2	2	2	2	2
Blackberry	RUBUS																									

Common Plant Name	Pl Sym	Pl Chr	Cattle SP	Cattle SU	Cattle F	Cattle W	Sheep SP	Sheep SU	Sheep F	Sheep W	Horses SP	Horses SU	Horses F	Horses W	Elk SP	Elk SU	Elk F	Elk W	Deer SP	Deer SU	Deer F	Deer W	Antelope SP	Antelope SU	Antelope F	Antelope W
Western coneflower	RUOC2	PNF																								
Western thimbleberry	RUPA	NS														2	2		2	2	2	2				
Purple sage	SADOC	NS																								
Willow	SALIX			2	2			2	2			2	2			2	2	2	2	2	2	2	2	2	2	2
Elderberry	SAMBU			2	2	2		2	1	2						2	2	2	1	1			1	1		
Scouler willow	SASC	NT		2	2			2	2			2	2			2	2	2	2	2	2	2	2	2	2	2
Black greasewood	SAVE4	NS	2*			2	2*			2	2			2								2				2
Bulrush	SCIRP																									
Stonecrop	SEDUM																		2				2			
Butterweed groundsel	SESE2	PNF	2	2			2	2			2	2			2	2			2	2			2	2		
Bottlebrush squirreltail	SIHY	PNG	2		2		2				2		2		2		2		2				2			
Starry falsesolomonseal	SMST	PNF	2	2			1	1	2		2	2			2	2			1	1	2		2	2		
Goldenrod	SOLID						2	2				2	2						2	2			2	2		
Mountain ash	SORBU															2	2	2								
Alkali Sacaton dropseed	SPAI	PNG	2	1		2		2			2	1		2	2											
Scarlet globemallow	SPCO	PNF	2	2			1	2	2		2	2			2	2			1	2	2		1	2	2	
Sand dropseed	SPCR	PNG	2	2	2	2	2				2	2	2	2	2	2	2	2	2				2			
Alkali cordgrass	SPGR	PNG	2	2	2	2	2				2	2	2	2	2											
Globemallow	SPHAE						2	2											2	2			2	2		
Spirea	SPIRA				2												2				2	2			2	2
Prairie cordgrass	SPPE	PNG	2	2			2				2	2			2	2			2				2			
Needleandthread grass	STCO4	PNG	1	2	2	2	1	2	2*	2*	1	2	2	2	1	2	2	2	2	*	2*		2	*	2*	
Needlegrass	STIPA		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				2			
Lemmon needlegrass	STLE2	PNG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				2			
Letterman needlegrass	STLE4	PNG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				2			
Columbia needlegrass	STOCN	PNG	1	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2				2			
Western needlegrasss	STOC2	PNG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				2			
Thurber needlegrass	STTH2	PNG	1	2	2	2	2	2	2	2	1	2	2	2	1	2	2	2	2				2			

Common Plant Name	Pl Sym	Pl Chr	Cattle SP	Cattle SU	Cattle F	Cattle W	Sheep SP	Sheep SU	Sheep F	Sheep W	Horses SP	Horses SU	Horses F	Horses W	Elk SP	Elk SU	Elk F	Elk W	Deer SP	Deer SU	Deer F	Deer W	Antelope SP	Antelope SU	Antelope F	Antelope W
Common snowberry	SYAL	NS		2	2			2	2			2	2			2	2		1	1	2	2	2	2	2	2
Western snowberry	SYOC	NS						2	2							2	2		1	1	2	2	2	2	2	2
Utah snowberry	SYORU	NS		2	2			2	2			2	2			2	2		1	1	2	2	2	2	2	2
Mountain snowberry	SYOR2	NS		2	2			1	1			2	2			2	2		1	1	1	1	2	2	2	2
Medusahead wildrye	TAAS	AIG	2	2							2	2			2				2				2			
Nuttal tansy	TANU	PNF																								
Dandelion	TARAX		1	2	2		1	2	2		1	2	2		1	2	2		1	2	2		1	2	2	
Gray horsebrush	TECA2	NS					*	*	*	*									2	2	2	2	2	2	2	2
Littleleaf horsebrush	TEGL	NS					*	*	*	*									2	2	2	2	2	2	2	2
Nuttall horsebrush	TENU2	NS																	2	2	2	2	2	2	2	2
Spiny horsebrush	TESP2	NS	*	*	*	*	*	*	*	*	*	*	*	*												
Meadowrue	THALI2																		2	2			2	2		
Thermopsis	THERM																									
Townsendia	TOWNS																									
Clover	TRIFO		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2			2	2		
Arrowgrass	TRIGL		*	*	*	*	*	*	*	*	*	*	*													
Trisetum	TRISE		1	2	2	2	2				1	2	2	2	1	2	2	2	2				2			
Spike Trisetum	TRSP2	PNG	1	2	2	2	2				1	2	2	2	1	2	2	2	2				2			
Blueberry	VACCI															2	2	2	2	2	2	2	2	2	2	2
Valerian	VALER						2	2											2	2			2	2		
Falsehellebore	VERAT		*	*	*		*	*	*										2	2						
American vetch	VIAM	PNF	1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	2	2			2	2		
Vetch	VICIA		1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	2	2			2	2		
Violet	VIOLA						2	2											2	2			2	2		
Harry winter vetch	VIVI	PIF	2	2			2	2			2	2			2	2			2	2			2	2		
Mulesear wyethia	WYAM	PNF					2								2				2	2			2			
Whitehead wyethia	WYHE2	PNF	2				2				2				2				2	2						

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			SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W	SP	SU	F	W
Wooly wyethia	WYMO	PNF	2				2				2				2				2	2						
Common beargrass	XETE	PNF																								
Deathcamas	ZYGAD		*	*	*	*	*	*	*	*	*	*	*	*												