

Table 1. List of plant species occurred in the understory vegetation of the monitoring sites on transitional forested rangelands, 2003-2005

AlphaCd	SciName	CommName	GrowthF
AGAL	Agrostis alba	Redtop	1
AGCA	Agropyron caninum	Bearded wheatgrass	1
AGCR	Agropyron cristatum	Crested wheatgrass	1
AGDI	Alopecurus pratensis	Meadow foxtail	1
AGHU	Agrostis humilis	Alpine bentgrass	1
AGIN2	Agrostis interrupta	Interrupted bentgrass	1
AGRE	Agropyron repens	Quackgrass	1
AGSC	Agrostis scabra	Rough or Winter bentgrass	1
AGSP	Agropyron spicatum	Bluebunch wheatgrass	1
AGTR2	Agropyron trichophorum	Pubescent wheatgrass	1
AREL	Arrhenatherum elatius	Tall Oatgrass	1
ARLO3	Aristida longiseta	Fendler threeawn	1
BRBR	Bromus briziformis	Rattlesnake brome	1
BRCA	Bromus carinatus	Mountain brome	1
BRIN	Bromus inermis	Smooth brome	1
BRJA	Bromus japonicus	Japanese brome	1
BRMO	Bromus mollis	Soft brome	1
BROMU	Bromus spp.	Annual brome	1
BRTE	Bromus tectorum	Cheatgrass	1
BRVU	Bromus vulgaris	Columbia brome	1
CARU	Calamagrostis rubescens	Pinegrass	1
DAGL	Dactylis glomerata	Orchardgrass	
DACA	Danthonia californica	California oatgrass	1
DAIN	Danthonia intermedia	Timber oatgrass	1
DAUN	Danthonia unispicata	Onespike oatgrass	1
DECA	Deschampsia caespitosa	Tufted hairgrass	1
DEDA	Deschampsia danthonioides	Annual hairgrass	1
DEEL	Deschampsia elongata	Slender hairgrass	1
ELCI	Elymus cinereus	Giant wildrye	1
ELGL	Elymus glaucus	Blue wildrye	1
FEAR3	Festuca arundinacea	Alta fescue	1
FEID	Festuca idahoensis	Idaho fescue	1
FEMI	Festuca microstachys	Small fescue	1
FEOC	Festuca occidentalis	Western fescue	1
FEOV	Festuca ovina	Sheep fescue	1
FERU	Festuca rubra	Red fescue	1
FEVI	Festuca viridula	Green fescue	1
HOJU	Hordeum jubatum	Foxtail barley	1
KOCR	Koeleria cristata	Prairie junegrass	1
MEBU	Melica bulbosa	Oniongrass	1
MESP	Melica spectabilis	Purple oniongrass	1
OREX	Oryzopsis exigua	Little ricegrass	1
ORHE	Oryzopsis hendersoni	Henderson ricegrass	1
PHAL	Phleum alpinum	Alpine timothy	1
PHPR	Phleum pratense	Timothy	1
POBU	Poa bulbosa	Bulbous bluegrass	1
POCO	Poa compressa	Canada bluegrass	1
PONE	Poa nervosa	Wheeler's bluegrass	1

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POPR	<i>Poa pratensis</i>	Kentucky bluegrass	1
PORE	<i>Poa reflexa</i>	Nodding bluegrass	1
POSA3	<i>Poa sandbergii</i>	Sandberg's bluegrass	1
POSC	<i>Poa scabrella</i>	Pine bluegrass	1
STOC	<i>Stipa occidentalis</i>	Western needlegrass	1
TACA8	<i>Taeniatherum caput-medusae</i>	Medusahead	1
TRCA	<i>Trisetum canascens</i>	Tall trisetum	1
TRSP	<i>Trisetum spicatum</i>	Spike trisetum	1
CACO	<i>Carex concinnoides</i>	Northwestern sedge	2
CAGE	<i>Carex Geyeri</i>	Elk sedge	2
CAHO	<i>Carex Hoodii</i>	Hood's sedge	2
CANE	<i>Carex nebrascensis</i>	Nebraska sedge	2
CARO	<i>Carex Rossii</i>	Ross sedge	2
CAUT	<i>Carex utriculata</i>	Northwest territory sedge	2
JUBA	<i>Juncus balticus</i>	Baltic rush	2
JUCO	<i>Juncus confusus</i>	Colorado rush	2
JUEF	<i>Juncus effusus</i>	Common rush	2
JUEN	<i>Juncus ensifolius</i>	swordleaf rush	2
JUPA	<i>Juncus parryi</i>	Parry's rush	2
LUCA2	<i>Luzula campestris</i>	Field woodrush	2
ACMIL	<i>Achillea millefolium</i> (var. <i>lanulosa</i>)	Western yarrow	3
ADBI	<i>Adenocaulon bicolor</i>	Pathfinder plant	3
AGGL	<i>Agoseris glauca</i>	Pale agoseris	3
AGUR	<i>Agastache urticifolia</i>	Nettleleaf horsemint	3
ALAL	<i>Alyssum alyssoides</i>	Pale alyssum	3
ANLU	<i>Antennaria luzuloides</i>	Woodrush pussytoes	3
ANMA	<i>Anaphalis margaritacea</i>	Pearly everlasting	3
ANPI	<i>Anemone piperi</i>	Piper's anemone	3
ANRO	<i>Antennaria rosea</i>	Rosy pussytoes	3
AQFO	<i>Aquilegia formosa</i>	Sitka columbine	3
ARABI	<i>Arabis</i> spp.	Rockcress	3
ARCO	<i>Arnica cordifolia</i>	Heartleaf arnica	3
ARLA	<i>Arnica latifolia</i>	Mountain arnica	3
ARMA3	<i>Arenaria macrophylla</i>	Bigleaf sandwort	3
ARSO	<i>Arnica sororia</i>	Twin arnica	3
ASCA7	<i>Astragalus canadensis</i> (var. <i>mortonii</i>)	Canada milkvetch	3
ASCO	<i>Aster conspicuus</i>	Showy aster	3
ASCU4	<i>Astragalus cusickii</i>	Cusick's milkvetch	3
BASA	<i>Balsamorhiza sagittata</i>	Arrowleaf balsamroot	3
BLSC	<i>Blepharipappus scaber</i>	Rough eyelashweed	3
BRDO	<i>Brodiaea douglasii</i>	Douglas' brodiaea	3
CAAP2	<i>Castilleja applegatei</i>	Wavy-leaved paintbrush	3
CACU3	<i>Castilleja cusickii</i>	Cusick's paintbrush	3
CAHI2	<i>Castilleja hispida</i>	Harsh paintbrush	3
CAQU	<i>Camassia quamash</i>	Common camas	3
CEAR	<i>Cerastium arvense</i>	Field chickweed	3
CEDI	<i>Centaurea diffusa</i>	Diffuse knapweed	3
CEVI	<i>Cerastium viscosum</i>	Sticky cerastium	3
CIUN	<i>Cirsium undulatum</i>	Wavyleaf thistle	3
CIVU	<i>Cirsium vulgare</i>	Bull thistle	3
CLUN	<i>Clintonia uniflora</i>	Queen's cup	3
COGR2	<i>Collomia grandiflora</i>	Largeflower collomia	3

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COLI2	<i>Collomia linearis</i>	Narrowleaf collomia	3
COPA	<i>Collinsia parviflora</i>	Small flowered blue eyed Mary	3
CRAC	<i>Crepis acuminata</i>	Tapertip hawksbeard	3
CRFL2	<i>Cryptantha flaccida</i>	Roughseed cryptantha	3
CRMO3	<i>Crepis modocensis</i>	Modoc hawksbeard	3
CYOF	<i>Cynoglossum officinale</i>	Common houndstongue	3
DEBI	<i>Delphinium bicolor</i>	Little larkspur	
DEBU	<i>Delphinium Burkei</i>	Larkspur	3
DIAR	<i>Dianthus armeria</i>	Deptford pink	3
EPAN	<i>Epilobium angustifolium</i>	Fireweed	3
EPGL	<i>Epilobium glaberrimus</i>	Smooth willowweed	3
EPMI	<i>Epilobium minutum</i>	Small flowered willowweed	3
EPPA	<i>Epilobium paniculatum</i>	Tall annual willowweed	3
EQAR	<i>Equisetum arvense</i>	Common horsetail	3
EQLA	<i>Equisetum laevigatum</i>	Smooth scouringrush	3
ERCH	<i>Erigeron chrysopsidis</i>	Dwarf yellow fleabane	3
ERCI	<i>Erodium cicutarium</i>	Filaree	3
EREA	<i>Erigeron eatonii</i>	Eaton's fleabane	3
ERFL	<i>Eriogonum flavum</i>	Yellow buckwheat	3
ERHE	<i>Eriogonum heracleoides</i>	Creamy buckwheat	3
ERLA	<i>Eriophyllum lanatum</i>	Woolly eriophyllum	3
ERPE	<i>Erigeron peregrinus</i>	Peregrine fleabane	3
ERPU	<i>Erigeron pumilus</i>	Shaggy fleabane	3
ERST2	<i>Eriogonum strictum</i>	Strict buckwheat	3
ERSU	<i>Erigeron subtrinervus</i>	Three-nerved daisy	3
FRVE	<i>Fragaria vesca</i>	Woods strawberry	3
FRVI	<i>Fragaria virginiana</i>	Broadpetal strawberry	3
GAAP	<i>Galium aparine</i>	Cleavers	3
GABO	<i>Galium boreale</i>	Northern bedstraw	3
GATR	<i>Galium triflorum</i>	Sweetscented bedstraw	3
GEAF	<i>Gentiana affinis</i>	Prairie gentian	3
GEMA	<i>Geum macrophyllum</i>	Largeleaf avens	3
GETE	<i>Gentiana tenuifolia</i>	Gentian	3
GETR	<i>Geum triflorum</i>	Red avens	3
GEVI	<i>Geranium viscosissimum</i>	Sticky geranium	3
GNAPH	<i>Gnaphalium</i> spp.	Cudweed	3
GNCA	<i>Gnaphalium californicum</i>	Ladies' tobacco	3
GNMI	<i>Gnaphalium microcephalum</i>	Slender cudweed	3
GOOB	<i>Goodyera oblongifolia</i>	Rattlesnake plantain	3
GRNA	<i>Grindelia nana</i>	Low gumweed	3
HALA	<i>Haplopappus lanuginosus</i>	Wooly goldenweed	3
HAOB	<i>Habenaria obtusata</i>	Bog-orchid	3
HAL	<i>Hieracium albiflorum</i>	White hawkweed	3
HAL2	<i>Hieracium albertinum</i>	Western hawkweed	3
HICY	<i>Hieracium cynoglossoides</i>	Houndstongue hawkweed	3
HYPE	<i>Hypericum perforatum</i>	St. John's wort	3
IRMI	<i>Iris missouriensis</i>	Rockymountain iris	3
LALA2	<i>Lathyrus lanszwertii</i>	Few-flowered peavine	3
LANEC	<i>Lathyrus nevadensis</i> (var.cusickii)	Cusick's peavine	3
LAPA2	<i>Lathyrus pauciflorus</i>	Few-flowered peavine	3
LASE	<i>Lactuca serriola</i>	Prickly lettuce	3
LIRU	<i>Lithospermum ruderale</i>	Western gromwell	3

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LIVU2	<i>Linaria vulgaris</i>	Butter-and eggs toadflax	3
LOCO2	<i>Lomatium cous</i>	Cous biscuitroot	3
LODIE	<i>Lomatium dissectum</i>	Fernleaf biscuitroot	3
LOMA	<i>Lomatium macrocarpum</i>	Bigseed biscuitroot	3
LOTR	<i>Lomatium triternatum</i>	Nineleaf biscuitroot	3
LUCA	<i>Lupinus caudatus</i>	Tallcup lupine	3
LULA2	<i>Lupinus laxiflorus</i>	Spurred lupine	3
LULE	<i>Lupinus leucophyllus</i>	Velvet lupine	3
LUSE	<i>Lupinus sericeus</i>	Silky lupine	3
MAEX	<i>Madia exigua</i>	Little tarweed	3
MAGL	<i>Madia glomerata</i>	Cluster tarweed	3
MAGR	<i>Madia gracilis</i>	Common tarweed	3
MEAL2	<i>Mentzelia albicaulis</i>	Whitestem mentzelia	3
MIGR	<i>Microsteris gracilis</i>	Pink microsteris	3
MINU	<i>Microseris nutans</i>	Nodding microseris	3
MIPE	<i>Mitella pentandra</i>	Alpine mitrewort	3
MIST2	<i>Mitella stauropetala</i>	Side-flowered mitrewort	3
NADI	<i>Navarretia divaricata</i>	Navarretia	3
NAIN	<i>Navarretia intertexta</i>	Needleleaf navarretia	3
ORTE	<i>Orthocarpus tenuifolius</i>	Thinleaved owl's-clover	3
OSCH	<i>Osmorhiza chilensis</i>	Sweet cicely	3
PEAT	<i>Penstemon attenuatus</i>	Sulfur Penstemon	3
PEDE	<i>Penstemon deustus</i>	Hot rock penstemon	3
PEGA2	<i>Perideridia gairdneri</i>	Gairdner's yampa	3
PEGL4	<i>Penstemon globosus</i>	Globe penstemon	3
PERA	<i>Pedicularis racemosa</i>	Sicketop Lousewort	3
PERY	<i>Penstemon Rydbergii</i>	Rydberg penstemon	3
PHCO2	<i>Phlox colubria</i>	Snake river phlox	3
PHHA	<i>Phacelia hastata</i>	Silverleaf phacelia	3
PHLO	<i>Phlox longifolia</i>	Longleaf phlox	3
PLLA	<i>Plantago lanceolata</i>	Buckhorn plantain	3
PODO	<i>Polygonum douglasii</i>	Douglas' knotweed	3
POGL	<i>Potentilla glandulosa</i>	Gland cinquefoil	3
POGR	<i>Potentilla gracilis</i>	Slender cinquefoil	3
POMA2	<i>Polygonum majus</i>	Wiry knotweed	3
PORE	<i>Potentilla recta</i>	Sulfur cinquefoil	3
PRVU	<i>Prunella vulgaris</i>	Common selfheal	3
PTAQ	<i>Pteridium aquilinum</i>	Bracken fern	3
PYSE	<i>Pyrola secunda</i>	Sidebells pyrola	3
RAAC	<i>Ranunculus acris</i>	Tall buttercup	3
RAUN	<i>Ranunculus uncinatus</i>	Little buttercup	3
RUAC	<i>Rumex acetosella</i>	Sheep sorrel	3
RUOC	<i>Rudbeckia occidentalis</i>	Western coneflower	3
SAOC	<i>Sanguisorba occidentalis</i>	Annual burnet	3
SCAN	<i>Scutellaria angustifolia</i>	Narrowleaf skullcap	3
SEIN	<i>Senecio integerrimus</i>	Western Groundsel	3
SEPS	<i>Senecio pseudoarnica</i>	Golden ragwort	3
SEST	<i>Sedum stenopetalum</i>	Wormleaf stonecrop	3
SHCA	<i>Shepherdia canadensis</i>	Buffaloberry	3
SIOR	<i>Sidalcea oregana</i>	Oregon checkerbloom	3
SMRA	<i>Smilacina racemosa</i>	Feather solomonplume	3
SMST	<i>Smilacina stellata</i>	Starry false solomon's seal	3

SOMI	<i>Solidago missouriensis</i> var. <i>missouriensis</i>	Missouri goldenrod	3
STAM	<i>Streptopus amplexifolius</i>	Twisted stalk	3
STLO	<i>Stellaria longipes</i>	Longstalk starwort	3
TAOF	<i>Taraxacum officinale</i>	Dandelion	3
THFE	<i>Thalictrum fendleri</i>	Fendler's meadowrue	3
THMO	<i>Thermopsis montana</i>	Golden pea	3
THOC	<i>Thalictrum occidentale</i>	Western meadowrue	3
TOFL2	<i>Tonella floribunda</i>	Large flower tonella	3
TRCA3	<i>Trautvetteria caroliniensis</i>	False bugbane	3
TRDU	<i>Tragopogon dubius</i>	Yellow salsify	3
TRLO	<i>Trifolium longipes</i>	Long-stalked clover	3
TRMA	<i>Trifolium macrocephalum</i>	Bighead clover	3
TROV	<i>Trillium ovatum</i>	White trillium	3
TRPR	<i>Trifolium pratense</i>	Red clover	3
TRRE	<i>Trifolium repens</i>	White clover	3
VASI	<i>Valeriana sitchensis</i>	Sitca valerian	3
VEAR	<i>Veronica arvensis</i>	Common speedwell	3
VECA	<i>Veratrum californicum</i>	California false hellebore	3
VERON	<i>Veronica</i> spp.	Speedwell	3
VETH	<i>Verbascum thapsus</i>	Common mullein	3
VIAD	<i>Viola adunca</i>	Early blue violet	3
VIAM	<i>Vicia americana</i>	American vetch	3
VIGL	<i>Viola glabella</i>	Woodland violet	3
VIOR2	<i>Viola orbiculata</i>	Roundleaved violet	3
VIPU	<i>Viola purpurea</i>	Goosefoot violet	3
WYAM	<i>Wyethia amplexicaulis</i>	Mulsears wyethia	3
ACGLG	<i>Acer glabrum</i> (var. <i>glabrum</i>)	Rocky mountain maple	4
ALIN	<i>Alnus incana</i>	Thinleaf alder	4
ALSI	<i>Alnus sinuata</i>	Sitca alder	4
AMAL	<i>Amelanchier alnifolia</i>	Serviceberry	4
ARNE	<i>Arctostaphylos nevadensis</i>	Pinemat manzanita	4
ARRI	<i>Artemisia rigida</i>	Stiff sagebrush	4
ARUV	<i>Arctostaphylos uva-ursi</i>	Bearberry	4
BENE	<i>Berberis nervosa</i>	Cascades oregon-grape	4
BERE	<i>Berberis repens</i>	Creeping oregongrape	4
CESA	<i>Ceanothus sanguineus</i>	Redstem ceanothus	4
CEVE	<i>Ceanothus velutinus</i>	Snowbrush ceanothus	4
CHME	<i>Chimaphila menziesii</i>	Little pipsissewa	4
CHUM	<i>Chimaphila umbellata</i>	Prince's pine	4
HODI	<i>Holodiscus discolor</i>	Ocean spray	4
LIBO2	<i>Linnaea borealis</i>	Twinflower	4
LOCI	<i>Lonicera ciliosa</i>	Trumpet honeysuckle	4
LOUT2	<i>Lonicera utahensis</i>	Utah honeysuckle	4
MEFE	<i>Menziesia ferruginea</i>	Fool's huckleberry	4
PAMY	<i>Pachistima myrsinites</i>	Oregon boxwood	4
PHLE2	<i>Philadelphus lewisii</i>	Mockorange	4
PHMA	<i>Physocarpus malvaceus</i>	Mallow ninebark	4
PRVI	<i>Prunus virginiana</i>	Common chokecherry	4
RILA	<i>Ribes lacustre</i>	Swamp gooseberry	4
RIVI	<i>Ribes viscosissimum</i>	Sticky currant	4
ROGY	<i>Rosa gymnocarpa</i>	Baldhip rose	4
RONU	<i>Rosa nutkana</i>	Nootka rose	4

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ROWOU	<i>Rosa woodsii</i> (var. <i>ultramontana</i>)	Pearhip rose	4
RUPA	<i>Rubus parviflorus</i>	Thimbleberry	4
SASC	<i>Salix scouleriana</i>	Scouler willow	4
SHCA	<i>Shepherdia canadensis</i>	Buffaloberry	4
SPBE	<i>Spiraea betulifolia</i>	Birchleaf spiraea	4
SYAL	<i>Symphoricarpos albus</i>	Common snowberry	4
SYOR	<i>Symphoricarpos oreophilus</i>	Mountain snowberry	4
VACA	<i>Vaccinium caespitosum</i>	Dwarf huckleberry	4
VAME	<i>Vaccinium membranaceum</i>	Big huckleberry	4
VASC	<i>Vaccinium scoparium</i>	Grouse huckleberry	4